



Prepared for

Georgia Power Company
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2021 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT WANSLEY ASH POND 1 (AP-1)

Prepared by

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CERTIFICATION STATEMENT

This *2021 Annual Groundwater Monitoring and Corrective Action Report, 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 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.



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January 31, 2022
Date

SUMMARY

This summary of the *2021 Annual Groundwater Monitoring and Corrective Action Report* provides the status of groundwater monitoring and corrective action program for the reporting period of January through December 2021 (referred to herein as the 2021 reporting period) at Georgia Power Company's (Georgia Power's) Plant Wansley Ash Pond 1 (AP-1) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal 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, which was designed to receive and store CCR materials. AP-1 began receiving process water containing fly ash and bottom ash in 1976.



Plant Wansley and the Site

As of April 2019, all process-related flows from the plant to AP-1 have ceased.

Groundwater at the Site is monitored using a comprehensive well network that meets 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 2021 reporting period, the Site remained in assessment monitoring.

During the 2021 reporting period, Geosyntec conducted three groundwater sampling events in February, March and August 2021. Groundwater samples collected during the 2021 reporting period were submitted to Eurofins TestAmerica, Inc. for analysis. Per the federal CCR Rule, groundwater data from the semiannual assessment monitoring events conducted in March and August 2021 were evaluated in accordance with the certified

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

statistical methods. The evaluations identified statistically significant values of select Appendix III² and Appendix IV³ constituents in excess of state and federal groundwater protection standards in select monitoring wells, as summarized in the table below for the 2021 reporting period.

Appendix III Constituent	March 2021	August 2021
Boron	WGWC-8, WGWC-9, WGWC-16	WGWC-8, WGWC-9, WGWC-16
Calcium	WGWC-8	WGWC-8
Chloride	WGWC-8, WGWC-16	WGWC-8, WGWC-16
Fluoride	WGWC-9, WGWC-15, WGWC-19	WGWC-9, WGWC-15, WGWC-19
Sulfate	WGWC-8, WGWC-9, WGWC-16	WGWC-8, WGWC-9, WGWC-16
Total Dissolved Solids	WGWC-8	WGWC-8, WGWC-16
Appendix IV Constituent⁴	March 2021	August 2021
Lithium	<i>State only:</i> WGWC-8, WGWC-9 <i>Federal and State:</i> WGWC-19	<i>State only:</i> WGWC-8, WGWC-9 <i>Federal and State:</i> WGWC-19

An Alternate Source Demonstration (ASD)⁵ was submitted that presents multiple lines of evidence that the lithium groundwater concentrations detected at WGWC-8, WGWC-9, and WGWC-19 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.

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program for the 2021 reporting period, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to Georgia Power's CCR Rule Compliance website and provided to GA EPD semiannually.

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 maximum contaminant level (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 Regional Screening Level, if no MCL is available, or the calculated background interwell prediction limit.

⁵ An ASD was submitted in January 2019 (ACC, 2019b). An Addendum to the ASD was submitted in November 2020 (Geosyntec, 2020) and revised in February 2021 (Geosyntec, 2021b).

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LIST OF ACRONYMS AND ABBREVIATIONS

ACC	Atlantic Coast Consulting, Inc.
AP-1	Ash Pond 1
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
cm/sec	centimeters per second
DO	dissolved oxygen
ERM	Environmental Resources Management
Eurofins	Eurofins TestAmerica, Inc.
ft bgs	feet below ground surface
ft/day	feet per day
ft/ft	feet per foot
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GSC	Groundwater Stats Consulting
GWPS	Groundwater Protection Standard
HAR	Hydrogeologic Assessment Report
i	horizontal hydraulic gradient
K_h	horizontal hydraulic conductivity
MCL	Maximum Contaminant Level
mg/L	milligram per liter
n_e	effective porosity
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
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard unit
TDS	total dissolved solids
Unified Guidance	Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal 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 Consultants, Inc. (Geosyntec) has prepared this *2021 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Wansley (Site) Ash Pond 1 (AP-1) for the reporting period of January through December 2021 (referred to herein as the 2021 reporting period).

Groundwater monitoring and reporting for the CCR unit is performed in accordance with the monitoring requirements of § 257.90 through 257.95 of the federal CCR Rule, and GA EPD Rules for Solid Waste Management 391-3-4-.10(6). To specify groundwater monitoring requirements, GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the federal CCR Rule. For ease of reference, the federal CCR Rule is cited within this report in lieu of citing both sets of regulations.

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. A CCR permit application to comply with GA EPD Rules was submitted to GA EPD in November 2018 and is currently under review.

1.2 Regional Geology and 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 in support of the closure permit application).

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 upper 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 graphitic schist, muscovite schist, biotite schist, schist with interlayered mafic units, amphibolite/hornblende gneiss, granitic gneiss, and feldspathic quartzite 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. The uppermost aquifer at AP-1 occurs primarily in PWR and fractured bedrock. 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. Because of the steep topography at the Site and variable lithologic framework, the depth to the water table is variable, ranging from approximately 1 to 50 feet below ground surface (ft bgs). The regional groundwater flow direction is expected to be to the southeast; however, in topographically high areas south of AP-1, shallower water table

elevations are noted within the saprolite and PWR, and hydraulic gradients indicate localized flow northward (or inward) toward the pond.

Groundwater in the saprolite and PWR 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 aperture 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 consists of a sufficient number of wells installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer to represent 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 compliance well network was expanded during the 2021 reporting period to incorporate six piezometers (PZ-22, PZ-23S, PZ-24, PZ-25S, PZ-26S, and PZ-27S) installed in 2020. These piezometers were reclassified as compliance wells WGWC-20 through WGWC-25, respectively. These wells supplement the monitoring network near the southeast corner of AP-1 (WGWC-20 through WGWC-22), south of AP-1 (WGWC-23), and near the southwest end of AP-1 (WGWC-24 and WGWC-25). Incorporation of these locations into the compliance monitoring well network was based on site-specific hydrogeologic conditions, groundwater flow direction, well location and depth, as well as review of analytical results of groundwater samples collected in February and March 2021 discussed in Sections 2.2 and 2.3.

Piezometers and characterization wells 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 locations of the compliance monitoring wells, piezometers,

and characterization wells 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 the 2021 reporting period and discusses any changes in status of the monitoring program. Groundwater sampling was performed in accordance with § 257.93.

2.1 Monitoring Well Installation and Maintenance

No additional monitoring wells were installed during the 2021 reporting period. As discussed in Section 1.3, six piezometers installed in 2020 were reclassified as compliance wells WGWC-20 through WGWC-25.

Monitoring wells, piezometers, and characterization wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In March 2021 and August 2021, wells and piezometers were inspected, necessary corrective actions were identified and subsequently completed, as documented in the *Well Maintenance and Repair Documentation Memorandum* provided in **Appendix A**. This documentation will serve as the required five year well inspection and was performed under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Georgia Power initiated an assessment monitoring program for groundwater at AP-1 in January 2018. Statistical analyses of the 2018 assessment monitoring data identified an SSL of lithium in compliance monitoring wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 in excess of the federal and state groundwater protection standards (GWPS).

During the 2021 reporting period, compliance monitoring wells WGWA-1 through WGWC-19 were sampled in February, March, and August 2021 in support of the assessment monitoring program. Samples collected during the annual Appendix IV sampling event in February 2021 were analyzed only for Appendix IV constituents, whereas samples collected during the semiannual assessment monitoring events in March and August 2021 were analyzed for the complete list of Appendix III constituents and the Appendix IV constituents detected during the February 2021 event.

At the request of GA EPD, groundwater samples were collected in March and April 2021 from piezometers PZ-22, PZ-23S, PZ-24, PZ-25S, PZ-26S, and PZ-27S and analyzed for

Appendix III constituents and the Appendix IV constituent lithium. As noted previously in Section 1.3, these piezometers were reclassified as compliance monitoring wells WGWC-20 through WGWC-25. Groundwater samples collected during the August 2021 sampling event from compliance monitoring wells WGWC-20 through WGWC-25 were analyzed for the complete list of Appendix III and Appendix IV constituents.

The number of groundwater samples collected for analysis and the dates the samples were collected at AP-1 during the 2021 reporting period in support of the assessment monitoring program are summarized in **Table 2**. The analytical and statistical results of the events conducted during the 2021 reporting period are discussed in Sections 3 and 4, respectively.

2.3 Additional Groundwater Sampling

At the request of GA EPD, groundwater samples were collected in March and April 2021 from piezometers PZ-23D, PZ-26D, PZ-27D, PZ-28, and PZ-29D for laboratory analysis of Appendix III constituents to provide additional data to characterize groundwater quality south and southeast of AP-1. During the March 2021 groundwater sampling event, supplemental groundwater samples were collected from the compliance monitoring well network and from piezometers installed in 2020 for laboratory analysis for major cations (calcium, magnesium, potassium, and sodium) and anions (chloride, sulfate, and bicarbonate alkalinity), as well as iron, manganese, and sulfide. Major cation and anion data collected in March 2021 were used to construct a Piper diagram to evaluate the geochemical composition of the groundwater. The resulting Piper diagram is presented in **Appendix B**, and laboratory reports associated with the additional groundwater sampling completed in March and April 2021 are presented in **Appendix C**.

3.0 SAMPLING METHODOLOGY AND 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 assessment monitoring program conducted at AP-1 during the 2021 reporting period.

3.1 Groundwater Level Measurement

A synoptic round of depth-to-groundwater-level measurements were recorded from the AP-1 wells and piezometers during the three 2021 site-wide assessment monitoring events and used to calculate the corresponding groundwater elevations, which are presented in **Table 3**. The February, March, and August 2021 elevations reported are generally representative of the groundwater elevations reported for prior monitoring events.

The groundwater elevation data were used to prepare potentiometric surface maps for the February, March, and August 2021 events, which are presented on **Figures 3, 4, and 5**, respectively. Groundwater in the AP-1 area flows under the influence of topography and generally flows inward towards AP-1 with a minor component of flow to the southeast from AP-1.

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 August 2021 events. Hydraulic gradients were calculated along the flow path south of AP-1 between PZ-01 and WGWC-17 and between PZ-10 and WGWC-19 along the flow path east of AP-1. The supporting calculations are presented in **Table 4**; the locations of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figures 3, 4, and 5**. The calculated average hydraulic gradient along the southern and eastern flow paths for the 2021 reporting period are 0.086 feet per foot (ft/ft) and 0.090 ft/ft, respectively.

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

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

where:

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

K_h = Horizontal hydraulic conductivity $\left(\frac{\text{feet}}{\text{day}}\right)$

i = Horizontal hydraulic gradient $\left(\frac{\text{feet}}{\text{foot}}\right) = \frac{h_1 - h_2}{L}$

h_1 and h_2 = Groundwater elevation at location 1 and 2

L = Distance between location 1 and 2

n_e = Effective porosity

The average horizontal hydraulic conductivity (K_h) 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 is used to represent average conditions at AP-1, derived based on review of literature (Driscoll, 1986; Freeze and Cherry, 1979), observed site lithology, and professional judgement. With these variables defined, and accounting for the averaged hydraulic gradient discussed above for the three 2021 events, the average calculated flow velocity for the 2021 reporting period was approximately 0.23 ft/day (PZ-01 to WGWC-17) and 0.24 ft/day (PZ-10 to WGWC-19), for an average groundwater flow velocity in the vicinity of AP-1 of 0.24 ft/day.

3.3 Groundwater Sampling Procedures

Groundwater samples were collected 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 based on the groundwater level). Non-dedicated bladder pump and peristaltic pump samples were collected using new disposable polyethylene tubing; all non-dedicated tubing was disposed of following the sampling event. All non-disposable equipment was decontaminated before use and between well locations.

An in-situ water quality field meter (SmarTroll, Aqua TROLL, or similar) was used to monitor and record field water quality parameters [i.e., pH, conductivity, dissolved oxygen (DO), temperature, and oxidation reduction potential (ORP)] during well purging

to verify stabilization prior to sampling. Turbidity was measured using a LaMotte 2100Q (or similar) portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- pH \pm 0.1 standard units (s.u.)
- Conductivity \pm 5 %
- \pm 0.2 milligrams per liter (mg/L) or \pm 10% (whichever is greater) for DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L, record only.
- Turbidity measured less than 5 nephelometric turbidity units (NTU) or measured between 5 and 10 NTU following three hours of purging.

Following purging, and once stabilization was achieved, unfiltered samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Eurofins TestAmerica, Inc. (Eurofins) in Pittsburgh, Pennsylvania following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the 2021 reporting period are provided in **Appendix C**.

3.4 Laboratory Analyses

Laboratory analyses were performed by Eurofins, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP). Eurofins maintains a NELAP certification for the Appendix III and Appendix IV constituents analyzed for this project. Analytical methods used for groundwater sample analysis are listed in the analytical laboratory reports included in **Appendix C**.

The groundwater analytical results from the three 2021 assessment monitoring events and two supplementary sampling events are summarized in **Table 5**. The Eurofins laboratory reports associated with the results presented in **Table 5** are provided in **Appendix C**.

3.5 Quality Assurance and Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events at the minimum 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 appropriately preserved laboratory-supplied sample containers and submitted under the same chain of custody as the primary samples for analysis of the same constituents by Eurofins.

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 necessary, 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 reports are provided in **Appendix C** with the laboratory reports.

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 GWPS for the Appendix IV constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the 2021 reporting period. The data were analyzed by Groundwater Stats Consulting (GSC); the reports generated from the analyses are provided in **Appendix D**.

4.1 Statistical Methods

Groundwater data from the 2021 assessment monitoring events were statistically analyzed in accordance with the Professional Engineer-certified (PE-certified) Statistical Analysis Method Certification (October 2017, revised January 2020) (ERM, 2017; Atlantic Coast Consulting, Inc. [ACC], 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 assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess 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 reports provided in **Appendix D** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and are 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 PLs pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the background limit for each constituent to assess whether there are statistically significant increases (SSIs). 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.

4.1.2 Appendix IV Statistical Methods

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient compliance monitoring well with a data set consisting of a minimum of four samples. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess statistically significant levels (SSLs) of Appendix IV constituents. Due to non-routine sampling, some Appendix IV constituents at a well location have differing number of analytical data points. Additionally, at the time of this report, the data set for WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, and WGWC-25 is limited to less than four independent analyses for the Appendix IV constituents; and therefore, those constituents are not subject to the statistical analyses.

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, an 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 discussion presented in **Appendix D**, groundwater conditions have not returned to background levels and assessment monitoring should continue. Based on the statistical analyses of Appendix IV constituents, the following constituent(s) exceeded the state or federal GWPS for the 2021 reporting period:

4.2.1 March 2021 Semiannual Event

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 2021 SSLs for lithium was placed in the Operating Record on July 30, 2021, pursuant to § 257.95(g).

4.2.2 August 2021 Semiannual Event

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 SSLs of lithium was placed in the Operating Record on January 31, 2022, pursuant to § 257.95(g).

4.2.3 Summary of Statistical Analyses

The SSLs of lithium identified for the 2021 reporting period are consistent with previous reporting periods. As noted in Section 5.0, an ASD and an ASD Addendum have been submitted to GA EPD (ACC, 2019b; Geosyntec, 2021b), which provide lines of evidence to demonstrate that the lithium in groundwater at these wells is naturally-derived from the subsurface rock formations.

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 compliance monitoring wells WGWC-8, WGWC-9, WGWC-10⁶, and WGWC-19 during the 2018 reporting year. In accordance with § 257.95(g)(3), Georgia Power prepared an 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 at wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 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, 2020) and was provided in the *2020 Annual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2021a). A revised ASD Addendum was submitted to GA EPD under separate cover in February 2021 (Geosyntec, 2021b) and is provided in **Appendix E**. The ASD Addendum presents supplemental data collected since submittal of the ASD, which provide additional lines of evidence to demonstrate that the lithium SSLs identified at AP-1 are associated with naturally occurring lithium within rock formations at the Site.

⁶ As presented in the ASD Addendum (Geosyntec, 2021b), 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.

6.0 MONITORING PROGRAM STATUS

Based on the statistical analyses results, SSIs of Appendix III constituents were identified for the March and August 2021 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 AND FUTURE ACTIONS

This *2021 Annual Groundwater Monitoring and Corrective Action Report* for Plant Wansley AP-1 was prepared to fulfill the requirements of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10. Statistical analyses of the groundwater monitoring data for AP-1 for the 2021 reporting period identified SSLs of lithium in WGWC-8, WGWC-9, and WGWC-19. The 2018 ASD and 2021 ASD Addendum present multiple lines of evidence that illustrate that lithium SSLs in groundwater at these wells are associated with naturally occurring lithium within rock formations at the Site and are not originating from AP-1.

Georgia Power will continue to monitor the groundwater in the vicinity of AP-1 in accordance with the current assessment monitoring program. The next routine semiannual assessment monitoring event is scheduled for March 2022. The March 2022 semiannual assessment monitoring event will be a combined event to meet the requirements of § 257.95(b) and § 257.95 (d)(1) and will include sampling and analysis of all Appendix III and IV constituents.

8.0 REFERENCES

- ACC, 2019a. *2018 Annual Groundwater Monitoring and Corrective Action Report - Plant Wansley Ash Pond 1 (AP-1)*. January 2019.
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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 ^(2,3) (ft)	Top of Casing Elevation ⁽²⁾ (ft)	Top of Screen Elevation ⁽²⁾ (ft)	Bottom of Screen Elevation ⁽²⁾ (ft)	Well Depth (ft BTOC) ⁽⁴⁾	Screen Interval Length (ft)
Compliance Monitoring Well										
WGWA-1	Upgradient	10/21/2015	1250656.10	2035580.71	780.37	782.93	663.37	653.37	129.56	10
WGWA-2	Upgradient	10/16/2015	1251556.40	2035590.11	755.77	758.23	665.77	655.77	102.46	10
WGWA-3	Upgradient	12/15/2014	1240848.21	2022350.10	826.63	828.91	820.23	810.23	18.68	10
WGWA-4	Upgradient	01/13/2015	1240879.58	2022339.66	831.33	834.34	780.43	760.43	74.31	20
WGWA-5	Upgradient	12/23/2014	1241997.94	2022368.85	899.28	902.15	888.88	878.88	23.66	10
WGWA-6	Upgradient	01/13/2015	1241932.02	2022360.58	894.62	897.13	822.62	792.62	104.91	30
WGWA-7	Upgradient	12/22/2014	1243338.63	2023843.81	894.49	897.33	867.69	857.69	40.04	10
WGWA-18	Upgradient	12/16/2014	1244592.56	2025580.71	875.47	878.02	848.47	838.47	39.95	10
WGWC-8	Downgradient	10/29/2015	1242929.40	2029644.58	777.70	780.08	730.70	720.70	59.38	10
WGWC-9	Downgradient	12/4/2014	1242801.12	2029115.75	809.33	812.03	760.93	750.93	61.50	10
WGWC-10	Downgradient	10/27/2015	1240971.96	2026725.61	809.61	812.38	673.61	663.61	148.77	10
WGWC-11	Downgradient	12/8/2014	1240860.18	2025773.39	821.44	823.96	783.14	773.14	51.22	10
WGWC-12	Downgradient	10/22/2015	1240827.68	2025755.99	820.57	823.04	756.57	746.57	76.47	10
WGWC-13	Downgradient	11/4/2015	1240610.93	2024585.91	807.32	809.78	734.32	714.32	95.46	20
WGWC-14A	Downgradient	01/31/2017	1240604.54	2024599.63	808.20	810.94	778.20	768.20	42.74	10
WGWC-15	Downgradient	11/11/2015	1240483.16	2023912.92	802.03	804.69	758.53	748.53	56.16	10
WGWC-16	Downgradient	11/11/2015	1240480.46	2023903.77	801.72	804.21	779.72	769.72	34.50	10
WGWC-17	Downgradient	11/06/2015	1240052.06	2022623.82	813.36	816.00	730.36	720.36	95.94	10
WGWC-19	Downgradient	10/28/2015	1241851.51	2028949.19	780.60	783.42	698.60	688.60	94.82	10
WGWC-20	Downgradient	09/29/2020	1243350.76	2029769.43	804.88	807.95	775.18	765.18	43.17	10
WGWC-21	Downgradient	10/02/2020	1242139.33	2028512.65	831.79	834.41	773.11	763.11	71.70	10
WGWC-22	Downgradient	10/18/2020	1241695.25	2028116.05	807.00	810.37	776.92	766.92	43.85	10
WGWC-23	Downgradient	10/04/2020	1240769.79	2027414.58	820.50	823.80	780.40	770.40	53.80	10
WGWC-24	Downgradient	10/17/2020	1239916.68	2024139.82	802.22	804.80	774.43	764.43	40.77	10
WGWC-25	Downgradient	10/28/2020	1240184.18	2023616.69	805.98	808.98	779.51	769.51	39.87	10
Piezometer										
PZ-01	Piezometer	12/12/2014	1240249.86	2022319.93	853.91	856.72	817.81	807.81	49.31	10
PZ-04	Piezometer	12/22/2014	1242592.03	2023595.91	886.13	889.01	878.93	868.93	20.48	10
PZ-06	Piezometer	12/17/2014	1244382.89	2024661.39	912.30	915.15	898.60	888.60	26.95	10
PZ-08	Piezometer	12/15/2014	1245514.59	2026807.30	864.65	867.29	836.85	826.85	40.84	10
PZ-10	Piezometer	12/05/2014	1242058.41	2028554.29	829.26	832.02	810.46	800.46	31.96	10
PZ-11	Piezometer	12/05/2014	1240578.87	2026933.09	820.21	823.09	799.71	789.71	33.78	10
PZ-12	Piezometer	12/08/2014	1240837.96	2026731.01	816.17	818.74	779.37	769.37	49.78	10
PZ-15	Piezometer	12/10/2014	1240457.61	2025105.38	824.59	826.86	795.79	785.79	41.46	10
PZ-16	Piezometer	12/11/2014	1239419.77	2023662.22	798.05	800.70	785.05	775.05	26.15	10
PZ-17	Piezometer	12/11/2014	1239270.02	2023086.50	828.54	831.01	789.84	779.84	51.57	10
PZ-18	Piezometer	12/11/2014	1239569.52	2022299.20	812.10	814.51	788.20	778.20	36.71	10
PZ-20	Piezometer	01/31/2017	1243496.86	2030132.73	784.45	787.30	759.45	749.45	37.85	10
PZ-23D	Piezometer	10/02/2020	1242139.53	2028520.87	831.89	834.32	749.92	739.92	94.80	10
PZ-26D	Piezometer	10/12/2020	1239919.45	2024146.35	802.31	804.93	735.23	725.23	80.10	10
PZ-27D	Piezometer	10/15/2020	1240190.93	2023620.36	806.22	809.28	737.96	727.96	81.72	10
PZ-28	Piezometer	10/29/2020	1240066.02	2022624.73	813.57	816.18	753.68	743.68	72.90	10
PZ-29S	Piezometer	10/31/2020	1244317.13	2028839.68	805.80	805.30	770.28	760.28	45.42	10
PZ-29D	Piezometer	11/01/2020	1244304.90	2028853.29	805.77	805.24	688.69	678.69	126.95	10
Characterization Monitoring Well										
WAMW-1	Characterization	09/16/2018	1241843.66	2028944.63	780.05	782.66	668.40	658.40	124.60	10
WAMW-2	Characterization	09/14/2018	1241547.56	2028806.27	768.39	770.82	694.19	684.19	86.92	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 of WGWA-1 through WGWA-18, WGWC-8 through WGWC-19, WAMW-1 and WAMW-2, and PZ-01 through PZ-20 was completed by GEL Solutions and certified June 16, 2020. Survey of WGWC-20 through WGWC-25, and PZ-23D through PZ-29D was completed by GEL Solutions and certified on November 17, 2020.

(2) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey of WGWA-1 through WGWA-18, WGWC-8 through WGWC-19, WAMW-1 and WAMW-2, and PZ-01 through PZ-20 was completed by GEL Solutions and certified June 16, 2020. Survey of WGWC-20 through WGWC-25, and PZ-23D through PZ-29D was completed by GEL Solutions and certified on November 17, 2020.

(3) Ground surface elevation defined at the survey nail installed within the well pad.

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

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

Well ID	Hydraulic Location	February 2 - 4, 2021	March 8 - 11, 2021	March 10 - 12, 2021	April 7 - 8, 2021	August 24 - 26, 2021	Status of Monitoring Well
		Purpose of Sampling Event: Appendix IV Annual	Supplemental	Assessment	Supplemental	Assessment	
<i>Compliance Monitoring Well</i>							
WGWA-1	Upgradient	X	--	X	--	X	Assessment
WGWA-2	Upgradient	X	--	X	--	X	Assessment
WGWA-3	Upgradient	X	--	X	--	X	Assessment
WGWA-4	Upgradient	X	--	X	--	X	Assessment
WGWA-5	Upgradient	X	--	X	--	X	Assessment
WGWA-6	Upgradient	X	--	X	--	X	Assessment
WGWA-7	Upgradient	X	--	X	--	X	Assessment
WGWA-18	Upgradient	X	--	X	--	X	Assessment
WGWC-8	Downgradient	X	--	X	--	X	Assessment
WGWC-9	Downgradient	X	--	X	--	X	Assessment
WGWC-10	Downgradient	X	--	X	--	X	Assessment
WGWC-11	Downgradient	X	--	X	--	X	Assessment
WGWC-12	Downgradient	X	--	X	--	X	Assessment
WGWC-13	Downgradient	X	--	X	--	X	Assessment
WGWC-14A	Downgradient	X	--	X	--	X	Assessment
WGWC-15	Downgradient	X	--	X	--	X	Assessment
WGWC-16	Downgradient	X	--	X	--	X	Assessment
WGWC-17	Downgradient	X	--	X	--	X	Assessment
WGWC-19	Downgradient	X	--	X	--	X	Assessment
WGWC-20 ⁽¹⁾	Downgradient	--	X	--	X	X	Assessment ⁽²⁾
WGWC-21 ⁽¹⁾	Downgradient	--	X	--	X	X	Assessment ⁽²⁾
WGWC-22 ⁽¹⁾	Downgradient	--	X	--	X	X	Assessment ⁽²⁾
WGWC-23 ⁽¹⁾	Downgradient	--	X	--	X	X	Assessment ⁽²⁾
WGWC-24 ⁽¹⁾	Downgradient	--	X	--	X	X	Assessment ⁽²⁾
WGWC-25 ⁽¹⁾	Downgradient	--	X	--	X	X	Assessment ⁽²⁾

Notes:

-- = Not applicable

(1) Well installed in 2020 and incorporated into the groundwater monitoring program in 2021. WGWC-20 through WGWC-25 were formerly identified as PZ-22, PZ-23S, PZ-24, PZ-25S, PZ-26S, and PZ-27S, respectively.

(2) Groundwater samples collected in March and April 2021 were analyzed for Appendix III constituents and lithium. Groundwater samples collected in August 2021 were analyzed for Appendix III constituents and Appendix IV constituents.

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

Well ID	Top of Casing Elevation ⁽¹⁾ (ft)	February 1, 2021		March 8, 2021		August 23, 2021	
		Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)	Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)	Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)
Compliance Monitoring Well							
WGWA-1	782.93	25.01	757.92	24.03	758.90	28.35	754.58
WGWA-2	758.23	8.24	749.99	8.79	749.44	11.50	746.73
WGWA-3	828.91	3.10	825.81	2.89	826.02	3.75	825.16
WGWA-4	834.34	5.05	829.29	4.64	829.70	5.98	828.36
WGWA-5	902.15	14.97	887.18	14.22	887.93	17.78	884.37
WGWA-6	897.13	16.18	880.95	15.35	881.78	17.72	879.41
WGWA-7	897.33	27.30	870.03	25.33	872.00	28.00	869.33
WGWA-18	878.02	22.18	855.84	20.38	857.64	21.50	856.52
WGWC-8	780.08	3.24	776.84	4.16	775.92	6.82	773.26
WGWC-9	812.03	19.78	792.25	19.52	792.51	20.19	791.84
WGWC-10	812.38	15.53	796.85	14.72	797.66	16.35	796.03
WGWC-11	823.96	22.03	801.93	20.13	803.83	23.81	800.15
WGWC-12	823.04	21.55	801.49	19.90	803.14	23.54	799.50
WGWC-13	809.78	19.82	789.96	19.30	790.48	22.65	787.13
WGWC-14A	810.94	19.82	791.12	18.37	792.57	22.64	788.30
WGWC-15	804.69	20.09	784.60	20.08	784.61	19.98	784.71
WGWC-16	804.21	19.25	784.96	19.04	785.17	19.35	784.86
WGWC-17	816.00	30.09	785.91	29.98	786.02	29.85	786.15
WGWC-19	783.42	19.34	764.08	18.93	764.49	20.71	762.71
WGWC-20	807.95	25.97	781.98	25.86	782.09	31.33	776.62
WGWC-21	834.41	49.10	785.31	48.95	785.46	50.01	784.40
WGWC-22	810.37	16.41	793.96	15.91	794.46	18.11	792.26
WGWC-23	823.80	29.76	794.04	28.88	794.92	30.72	793.08
WGWC-24	804.80	12.52	792.28	12.36	792.44	15.48	789.32
WGWC-25	808.98	17.11	791.87	16.88	792.10	18.05	790.93
Piezometer							
PZ-01	856.72	38.82	817.90	38.47	818.25	38.34	818.38
PZ-04	889.01	11.94	877.07	16.59	872.42	16.53	872.48
PZ-06	915.15	23.86	891.29	19.79	895.36	23.12	892.03
PZ-08	867.29	30.85	836.44	30.80	836.49	30.61	836.68
PZ-10	832.02	27.26	804.76	27.95	804.07	29.20	802.82
PZ-11	823.09	21.29	801.80	20.30	802.79	22.83	800.26
PZ-12	818.74	25.05	793.69	23.98	794.76	26.55	792.19
PZ-15	826.86	27.24	799.62	25.15	801.71	28.05	798.81
PZ-16	800.70	10.80	789.90	11.21	789.49	12.61	788.09
PZ-17	831.01	36.76	794.25	36.23	794.78	37.13	793.88
PZ-18	814.51	16.41	798.10	15.60	798.91	18.20	796.31
PZ-20	787.30	14.09	773.21	12.82	774.48	16.34	770.96
PZ-23D	834.32	49.09	785.23	48.91	785.41	50.09	784.23
PZ-26D	804.93	13.81	791.12	14.00	790.93	16.10	788.83
PZ-27D	809.28	19.74	789.54	19.92	789.36	19.90	789.38
PZ-28	816.18	29.26	786.92	29.09	787.09	29.22	786.96
PZ-29S	805.30	20.20	785.10	20.21	785.09	20.74	784.56
PZ-29D	805.24	21.36	783.88	20.96	784.28	26.82	778.42
Characterization Monitoring Well							
WAMW-1	782.66	20.07	762.59	19.55	763.11	21.12	761.54
WAMW-2	770.82	12.86	757.96	12.56	758.26	14.02	756.80

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey of WGWA-1 through WGWA-18, WGWC-8 through WGWC-19, WAMW-1 and WAMW-2, and PZ-01 through PZ-20 was completed by GEL Solutions and certified June 16, 2020. Survey of WGWC-20 through WGWC-25, and PZ-23D through PZ-29D was completed by GEL Solutions and certified on November 17, 2020.

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

Flow Path Direction	February 1, 2021				March 8, 2021				August 23, 2021			
	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)
PZ-01 to WGWC-17	817.90	785.91	373	0.086	818.25	786.02	373	0.086	818.38	786.15	373	0.086
PZ-10 to WGWC-19	804.76	764.08	446	0.091	804.07	764.49	446	0.089	802.82	762.71	446	0.090

Flow Path Direction	Average for 2021				
	K _h (ft/day)	n _e	i (ft/ft)	V (ft/day) ⁽¹⁾	V (ft/day) ⁽²⁾
PZ-01 to WGWC-17	0.67	0.25	0.086	0.23	0.24
PZ-10 to WGWC-19	0.67	0.25	0.090	0.24	

Notes:

ft = feet

ft/day = feet per day

ft/ft = feet per foot

h₁, h₂ = groundwater elevation at location 1 and location 2

L = distance between location 1 and 2

i = h₁ - h₂ / L = horizontal hydraulic gradient

K_h = horizontal hydraulic conductivity

n_e = effective porosity

V = groundwater flow velocity

(1) Groundwater flow velocity equation: $V = [K_h * i] / n_e$

(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:	2/2/2021	3/11/2021	8/24/2021	2/2/2021	3/10/2021	8/23/2021	2/2/2021	3/10/2021	8/25/2021	2/2/2021	3/10/2021	8/24/2021
	Constituent ^(1,2)												
Appendix III	Boron	--	<0.39	<0.039	--	0.039 J	<0.039	--	<0.39	<0.039	--	<0.039	<0.039
	Calcium	--	1.3	1.2	--	11	13	--	1.9	1.7	--	16	15
	Chloride	--	4.5	5.1	--	2.6	3.3	--	1.8	1.9	--	1.2	1.5
	Fluoride	0.028 J	<0.026	0.062 J	0.065 J	0.045 J	0.097 J	0.035 J	<0.026	0.077 J	0.15	0.12	0.17
	pH ⁽³⁾	5.36	5.26	5.21	6.10	6.11	6.18	5.78	5.49	5.52	6.61	7.19	7.22
	Sulfate	--	<0.76	<0.76	--	0.90 J	1.3	--	0.91 J	0.79 J	--	8.1	7.9
	TDS	--	24	32	--	100	110	--	20	21	--	100	110
	Appendix IV	Antimony	0.00062 J	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
Arsenic		<0.00031	<0.00031	<0.00031	<0.00031	0.00063 J	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	0.00036 J	<0.00031
Barium		0.050	0.046	0.049	0.025	0.024	0.023	0.015	0.014	0.014	0.0060 J	0.0057 J	0.0055 J
Beryllium		<0.00018	0.00029 J	<0.00018	<0.00018	0.00065 J	<0.00018	<0.00018	0.00019 J	<0.00018	<0.00018	<0.00018	<0.00018
Cadmium		<0.00022	--	--	<0.00022	--	--	<0.00022	--	--	<0.00022	--	--
Chromium		<0.0015	<0.00015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Cobalt		0.00082	0.00081 J	0.0016 J	0.00069 J	0.00073 J	0.00049 J	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
Fluoride		0.028 J	<0.026	0.062 J	0.065 J	0.045 J	0.097 J	0.035 J	<0.026	0.077 J	0.15 J	0.12	0.17
Lead		0.00015 J	<0.00013	<0.00013	0.00015 J	0.00019 J	0.00023 J	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
Lithium		<0.0034	0.0039 J	<0.0034	0.0065	0.0075	0.0066	<0.0034	<0.0034	<0.0034	0.0039 J	0.0049 J	0.0036 J
Mercury		<0.00013	--	--	<0.00013	--	--	<0.00013	--	--	<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		0.243 U	0.046 U	0.598	0.202 U	0.378 U	0.632	0.182 U	-0.177 U	-0.121 U	1.05	1.47	1.61
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	0.00045 J	<0.00015	0.00040 J	0.00073 J	<0.00015	<0.00015	0.00028 J	<0.00015	<0.00015	0.00017 J	<0.00015	

Notes:

-- = Parameter was not analyzed

TDS = total dissolved solids

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

< = Indicates the parameter was not detected above the analytical MDL

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)

(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 and Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM 2540C, 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) Wells installed in 2020 and incorporated into the compliance groundwater monitoring program in 2021. WGWC-20 through WGWC-25 were formerly identified as PZ-22, PZ-23S, PZ-24, PZ-25S, PZ-26S, and PZ-27S, respectively.

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:	2/3/2021	3/10/2021	8/24/2021	2/3/2021	3/11/2021	8/24/2021	2/2/2021	3/10/2021	8/24/2021	2/2/2021	3/10/2021	8/25/2021
	Constituent ^(1,2)												
Appendix III	Boron	--	<0.039	<0.039	--	<0.039	<0.039	--	<0.039	<0.039	--	<0.039	0.10
	Calcium	--	1.3	47	--	26	26	--	0.89	1.7	--	7.7	16
	Chloride	--	1.8	2.1	--	1.5	1.8	--	1.9	1.9	--	1.9	2.3
	Fluoride	<0.026	<0.026	0.073 J	0.088 J	0.092 J	0.16	<0.026	<0.026	0.054 J	0.071 J	0.046 J	0.13
	pH ⁽³⁾	5.30	5.22	6.80	7.76	7.93	7.88	5.84	4.96	5.53	6.48	5.80	6.74
	Sulfate	--	<0.76	2.8	--	8.4	8.9	--	<0.76	<0.76	--	7.1	8.2
	TDS	--	19	150	--	110	120	--	20	24	--	72 H	92
	Appendix IV	Antimony	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<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	<0.00031	<0.00031	<0.00031
Barium		0.015	0.016	0.028	0.0079 J	0.0077 J	0.0074 J	0.012	0.011	0.012	0.017	0.016	0.015
Beryllium		<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018
Cadmium		<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		0.0015 J	0.0011 J	0.00079 J	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	0.00017 J	0.0018 J	0.0015 J	0.00084 J
Fluoride		<0.026	<0.026	0.073 J	0.088 J	0.092 J	0.16	<0.026	<0.026	0.054 J	0.071 J	0.046 J	0.13
Lead		0.00019 J	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
Lithium		<0.0034	<0.0034	<0.0034	0.0047 J	0.0050	0.0041 J	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034
Mercury		<0.00013	--	--	<0.00013	--	--	<0.00013	--	--	<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		-0.314	0.144 U	0.226 U	9.99	9.20	9.78	0.167 U	0.224 U	0.465 U	0.354 U	0.218 U	0.645
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	0.00042 J	<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-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:	2/3/2021	3/11/2021	8/26/2021	2/4/2021	3/12/2021	8/26/2021	2/4/2021	3/11/2021	8/26/2021	2/3/2021	3/12/2021	8/25/2021
	Constituent ^(1,2)												
Appendix III	Boron	--	2.4	2.4	--	0.64	0.56	--	<0.039	<0.039	--	<0.039	<0.039
	Calcium	--	83	85	--	11	9.3	--	7.9	7.6	--	1.6	1.5
	Chloride	--	110	110	--	3.4	3.1	--	1.7	1.6	--	3.6	3.5
	Fluoride	0.15	0.16	0.21	0.91	0.98	1.0	0.12	0.15	0.16	0.027 J	0.044 J	0.056 J
	pH ⁽³⁾	5.08	5.35	5.36	6.22	5.88	5.84	6.21	6.56	6.31	5.21	5.46	5.66
	Sulfate	--	220	220	--	62	52	--	2.8	1.8	--	2.0	1.1
	TDS	--	530	550	--	130	170	--	52	60	--	27	32
	Appendix IV	Antimony	<0.00038	<0.00038	<0.00038	0.00041 J	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
Arsenic		0.0013	0.00090 J	0.0013	<0.00031	<0.00031	<0.00031	<0.00031	0.00031 J	<0.00031	<0.00031	<0.00031	<0.00031
Barium		<0.0016	<0.0016	<0.0016	0.0016 J	<0.0016	<0.0016	0.035	0.033	0.032	0.039	0.045	0.040
Beryllium		0.0025	0.0022 J	0.0020 J	0.00039 J	0.00034 J	0.00038 J	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018
Cadmium		<0.00022	--	--	<0.00022	--	--	<0.00022	--	--	<0.00022	--	--
Chromium		<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0018 J	0.0023	0.0024	<0.0015	0.0017 J	<0.0015
Cobalt		0.00014 J	0.00043 J	0.00050 J	<0.00013	<0.00013	<0.00013	0.00059 J	0.00058 J	0.00044 J	0.00072 J	0.0022 J	0.00045 J
Fluoride		0.15 J	0.16	0.21	0.91	0.98	1.0	0.12 J	0.15	0.16	0.027 J	0.044 J	0.056 J
Lead		0.00013 J	<0.00013	0.00014 J	<0.00013	<0.00013	<0.00013	0.00019 J	0.00032 J	0.00026 J	<0.00013	0.00038 J	0.00023 J
Lithium		0.014	0.013	0.013	0.035	0.034	0.030	0.0049 J	0.0051	0.0044 J	<0.0034	<0.0034	<0.034
Mercury		<0.00013	--	--	<0.00013	--	--	<0.00013	--	--	<0.00013	--	--
Molybdenum		<0.00061	<0.00061	<0.00061	0.0030 J	0.0030 J	0.0028 J	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
Comb. Radium 226/228		2.00	2.38	2.87	0.353 U	0.831	0.681	0.0332 U	0.420 U	0.321 U	0.718	0.0729 U	0.401
Selenium		0.0036 J	0.0038 J	0.0037 J	0.0030 J	0.0034 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	0.00016 J	<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:	2/3/2021	3/12/2021	8/25/2021	2/4/2021	3/11/2021	8/25/2021	2/4/2021	3/11/2021	8/25/2021	2/4/2021	3/12/2021	8/26/2021
	Constituent ^(1,2)												
Appendix III	Boron	--	<0.039	<0.039	--	<0.039	0.063 J	--	<0.039	0.043 J	--	<0.039	<0.039
	Calcium	--	15	14	--	4.0	4.0	--	0.79	0.70	--	31	31
	Chloride	--	3.5	3.7	--	1.2	1.2	--	2.6	2.8	--	1.6	1.4
	Fluoride	0.082 J	0.096 J	0.14	0.16	0.18	0.20	0.033 J	0.040 J	0.071 J	0.69	0.88	0.77
	pH ⁽³⁾	6.15	6.66	6.69	6.34	5.95	6.27	5.76	5.10	5.39	7.77	7.72	7.58
	Sulfate	--	14	13	--	2.9	1.8	--	1.7	<0.76	--	19	16
	TDS	--	78	110	--	63	53	--	24	30	--	130	150
	Appendix IV	Antimony	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
Arsenic		<0.00031	<0.00031	<0.00031	0.00038 J	0.00035 J	<0.00031	<0.00031	<0.00031	<0.00031	0.00069 J	0.00084 J	0.0012
Barium		0.015	0.017	0.016	0.047	0.049	0.046	0.029	0.032	0.030	0.028	0.028	0.029
Beryllium		<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.00026 J	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018
Cadmium		<0.00022	--	--	<0.00022	--	--	<0.00022	--	--	<0.00022	--	--
Chromium		<0.0015	<0.0015	<0.0015	<0.0015	0.0019 J	0.0017 J	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Cobalt		0.00017 J	0.00042 J	0.00050 J	<0.00013	<0.00013	<0.00013	0.0041	0.0037	0.0029	0.00015 J	<0.00013	<0.00013
Fluoride		0.082 J	0.096 J	0.14	0.16 J	0.18	0.20	0.033 J	0.040 J	0.071 J	0.69	0.88	0.77
Lead		<0.00013	<0.00013	<0.00013	0.00038 J	0.00075 J	0.00025 J	0.00013 J	0.00031 J	0.00041 J	0.00030 J	<0.00013	<0.00013
Lithium		0.0075	0.0089	0.0061	<0.0034	0.0037 J	<0.034	<0.0034	0.0035 J	<0.0034	0.0086	0.0096	0.0059
Mercury		<0.00013	--	--	<0.00013	--	--	<0.00013	--	--	<0.00013	--	--
Molybdenum		<0.00061	0.00062 J	<0.00061	0.0012 J	0.0013 J	0.00092 J	<0.00061	<0.00061	<0.00061	0.0022 J	0.0019 J	0.0029 J
Comb. Radium 226/228		0.322 U	0.633	0.443 U	0.139 U	0.473	0.913	0.564	0.764	0.705	0.488 U	0.591	0.678
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	0.00021 J	0.00019 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	WGWC-20 ⁽⁴⁾	WGWC-20 ⁽⁴⁾	WGWC-20 ⁽⁴⁾
	Sample Date:	2/4/2021	3/11/2021	8/25/2021	2/4/2021	3/11/2021	8/25/2021	2/3/2021	3/11/2021	8/26/2021	3/8/2021	4/8/2021	8/26/2021
	Constituent ^(1,2)												
Appendix III	Boron	--	1.1	0.89	--	<0.039	<0.039	--	<0.039	<0.039	1.3	0.98	2.1
	Calcium	--	32	27	--	5.7	6.0	--	15	10	90	88	120
	Chloride	--	49	45	--	1.3	1.6	--	2.9	3.3	70	57	130
	Fluoride	0.052 J	0.061 J	0.099 J	0.064 J	0.050 J	0.093 J	0.30	0.31	0.38	1.8	1.7	2.0
	pH ⁽³⁾	5.42	5.21	5.25	6.31	5.96	6.09	6.75	7.12	6.66	5.54	5.60	5.37
	Sulfate	--	64	63	--	3.9	3.3	--	4.0	3.5	240	240	290
	TDS	--	190	220	--	75	84	--	100	94	590	540	720
	Appendix IV	Antimony	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	--	--
Arsenic		<0.00031	<0.00031	<0.00031	0.00035 J	<0.00031	<0.00031	<0.00031	<0.00031	<0.00031	--	--	0.00031 J
Barium		0.039	0.037	0.035	0.012	0.011	0.011	<0.0016	<0.0016	<0.0016	--	--	<0.0016
Beryllium		<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	--	--	0.0081
Cadmium		<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
Cobalt		0.00026 J	0.00013 J	<0.00013	0.00042 J	0.00035 J	0.00042 J	0.00025 J	0.00022 J	0.00022 J	--	--	0.00046 J
Fluoride		0.052 J	0.061 J	0.099 J	0.064 J	0.050 J	0.093 J	0.30	0.31	0.38	--	--	2.0
Lead		0.00013 J	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	--	--	<0.00013
Lithium		0.0051	0.0050	0.0046 J	0.0047 J	0.0049 J	0.0048 J	0.060	0.051	0.057	0.11	0.11	0.11
Mercury		<0.00013	--	--	<0.00013	--	--	<0.00013	--	--	--	--	0.00033
Molybdenum		<0.00061	<0.00061	<0.00061	0.0025 J	0.0022 J	0.0022 J	0.0013 J	0.0012 J	0.0011 J	--	--	0.00079 J
Comb. Radium 226/228		0.727	0.942	0.518	0.438 U	0.247 U	0.565	0.684	0.286 U	0.796	--	--	1.6
Selenium		0.0023 J	0.0023 J	0.0019 J	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	--	--	0.0016 J
Thallium	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	<0.00015	0.00018 J	<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-21 ⁽⁴⁾	WGWC-21 ⁽⁴⁾	WGWC-21 ⁽⁴⁾	WGWC-22 ⁽⁴⁾	WGWC-22 ⁽⁴⁾	WGWC-22 ⁽⁴⁾	WGWC-23 ⁽⁴⁾	WGWC-23 ⁽⁴⁾	WGWC-23 ⁽⁴⁾	WGWC-24 ⁽⁴⁾	WGWC-24 ⁽⁴⁾	WGWC-24 ⁽⁴⁾
	Sample Date:	3/9/2021	4/7/2021	8/26/2021	3/9/2021	4/8/2021	8/26/2021	3/9/2021	4/7/2021	8/26/2021	3/9/2021	4/8/2021	8/26/2021
	Constituent ^(1,2)												
Appendix III	Boron	0.19	0.13	0.087	0.33	0.21	0.36	0.073 J	< 0.039	0.052 J	1.8	1.9	2.1
	Calcium	66	67	51	15	14	24	3.2	2.7	4.6	65	71	69
	Chloride	58	50	47	2.9	2.4	4.2	3.5	3.7	3.3	110	110	100
	Fluoride	1.7	1.5	2.0	1.1	1.4	0.51	0.092 J	0.093 J	0.081 J	1.0	1.1	1.2
	pH ⁽³⁾	7.29	7.05	6.88	5.56	6.01	5.40	5.81	5.57	5.80	4.29	4.43	4.33
	Sulfate	230	190	190	80	60	100	14	5.1	7.5	140	160	170
	TDS	610	520	480	200	170	240	79	66	88	370	510	420
Appendix IV	Antimony	--	--	0.00076 J	--	--	<0.00038	--	--	<0.00038	--	--	<0.00038
	Arsenic	--	--	0.00057 J	--	--	<0.00031	--	--	<0.00031	--	--	0.0033
	Barium	--	--	0.0086 J	--	--	0.031	--	--	0.0078 J	--	--	0.042
	Beryllium	--	--	<0.00018	--	--	0.00053 J	--	--	0.00089 J	--	--	0.014
	Cadmium	--	--	<0.00022	--	--	<0.00022	--	--	<0.00022	--	--	0.00061 J
	Chromium	--	--	<0.0015	--	--	<0.0015	--	--	<0.0015	--	--	<0.0015
	Cobalt	--	--	0.00042 J	--	--	0.00038 J	--	--	0.00017 J	--	--	0.13
	Fluoride	--	--	2.0	--	--	0.51	--	--	0.081 J	--	--	1.2
	Lead	--	--	<0.00013	--	--	0.00022 J	--	--	<0.00013	--	--	0.0012
	Lithium	0.022	0.031	0.032	0.011	0.0081	0.011	<0.0034	<0.0034	<0.0034	0.0084	0.0077	0.0076
	Mercury	--	--	0.00020	--	--	0.00018 J	--	--	0.00022	--	--	0.00026
	Molybdenum	--	--	0.044	--	--	<0.00061	--	--	<0.00061	--	--	<0.00061
	Comb. Radium 226/228	--	--	1.17	--	--	3.54	--	--	0.703	--	--	1.63
	Selenium	--	--	<0.0015	--	--	0.0049 J	--	--	0.0020 J	--	--	<0.0015
Thallium	--	--	<0.00015	--	--	<0.00015	--	--	<0.00015	--	--	0.00072J	

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

	Well ID:	WGWC-25 ⁽⁴⁾	WGWC-25 ⁽⁴⁾	WGWC-25 ⁽⁴⁾	PZ-23D	PZ-23D	PZ-26D	PZ-26D	PZ-27D	PZ-27D	PZ-28	PZ-28	PZ-29D	PZ-29D
	Sample Date:	3/8/2021	4/8/2021	8/26/2021	3/9/2021	4/8/2021	3/9/2021	4/7/2021	3/8/2021	4/7/2021	3/9/2021	4/8/2021	3/11/2021	4/8/2021
	Constituent ^(1,2)													
Appendix III	Boron	0.48	0.43	0.70	0.62	0.59	0.22	0.15	0.23	0.18	0.044 J	< 0.039	< 0.039	< 0.039
	Calcium	14	16	16	50	59	17	18	33	26	3.6	4.1	41	35
	Chloride	74	77	79	36	39	20	20	150	100	1.8	3.6	7.2	4.5
	Fluoride	< 0.026	0.028 J	0.047 J	2.3	2.2	0.26	0.22	0.38	0.20	< 0.026	< 0.026	0.049 J	0.056 J
	pH ⁽³⁾	5.36	5.39	5.30	6.85	6.94	6.19	6.46	7.44	7.38	5.65	5.70	6.41	6.34
	Sulfate	4.7	5.8	13	100	98	46	48	160	92	1.1	1.7	11	6.4
	TDS	220	180	200	300	300	180	410	700	480	53	62	210	180
	Appendix IV	Antimony	--	--	<0.00038	--	--	--	--	--	--	--	--	--
Arsenic		--	--	<0.00031	--	--	--	--	--	--	--	--	--	--
Barium		--	--	0.41	--	--	--	--	--	--	--	--	--	--
Beryllium		--	--	0.00028 J	--	--	--	--	--	--	--	--	--	--
Cadmium		--	--	<0.00022	--	--	--	--	--	--	--	--	--	--
Chromium		--	--	<0.0015	--	--	--	--	--	--	--	--	--	--
Cobalt		--	--	0.0050	--	--	--	--	--	--	--	--	--	--
Fluoride		--	--	0.047 J	--	--	--	--	--	--	--	--	--	--
Lead		--	--	<0.00013	--	--	--	--	--	--	--	--	--	--
Lithium		0.0046 J	0.0044 J	0.0044 J	--	--	--	--	--	--	--	--	--	--
Mercury		--	--	0.0019	--	--	--	--	--	--	--	--	--	--
Molybdenum		--	--	<0.00061	--	--	--	--	--	--	--	--	--	--
Comb. Radium 226/228		--	--	1.12	--	--	--	--	--	--	--	--	--	--
Selenium		--	--	<0.0015	--	--	--	--	--	--	--	--	--	--
Thallium	--	--	<0.00015	--	--	--	--	--	--	--	--	--	--	

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

Constituent	Units	Background⁽¹⁾	Federal GWPS⁽²⁾	State GWPS⁽³⁾
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	0.04	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

Statistical analyses were performed per semiannual assessment monitoring event conducted during the reporting period. Background limits and groundwater protection standards (GWPS) are applicable to the March 2021 and August 2021 events.

(1) The background limits were used when determining the GWPS under 40 CFR

§257.95(h) and Georgia Environmental Protection Division (GA EPD) Rule 391-3-4-.10(6)(a).

(2) 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 levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

(3) Under the existing GA 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

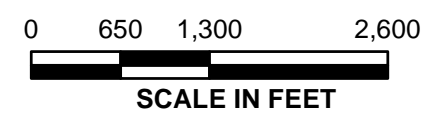


LEGEND

- Approximate Property Boundary
- Approximate AP-1 Boundary



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 2022

FIGURE
1

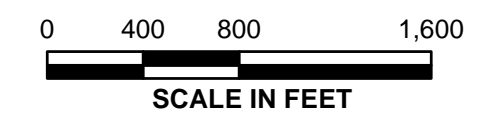
2021 Annual Groundwater Monitoring and Corrective Action Report – Plant Wansley Ash Pond 1 (AP-1)



LEGEND

-  Compliance Monitoring Well
-  Characterization Monitoring Well
-  Piezometer
-  Approximate AP-1 Boundary

Notes:
 1. Service Layer Credits: 2020-04-05 Worldview 3 Satellite imagery. Purchased from Harris Geospatial.



GROUNDWATER MONITORING WELL NETWORK MAP

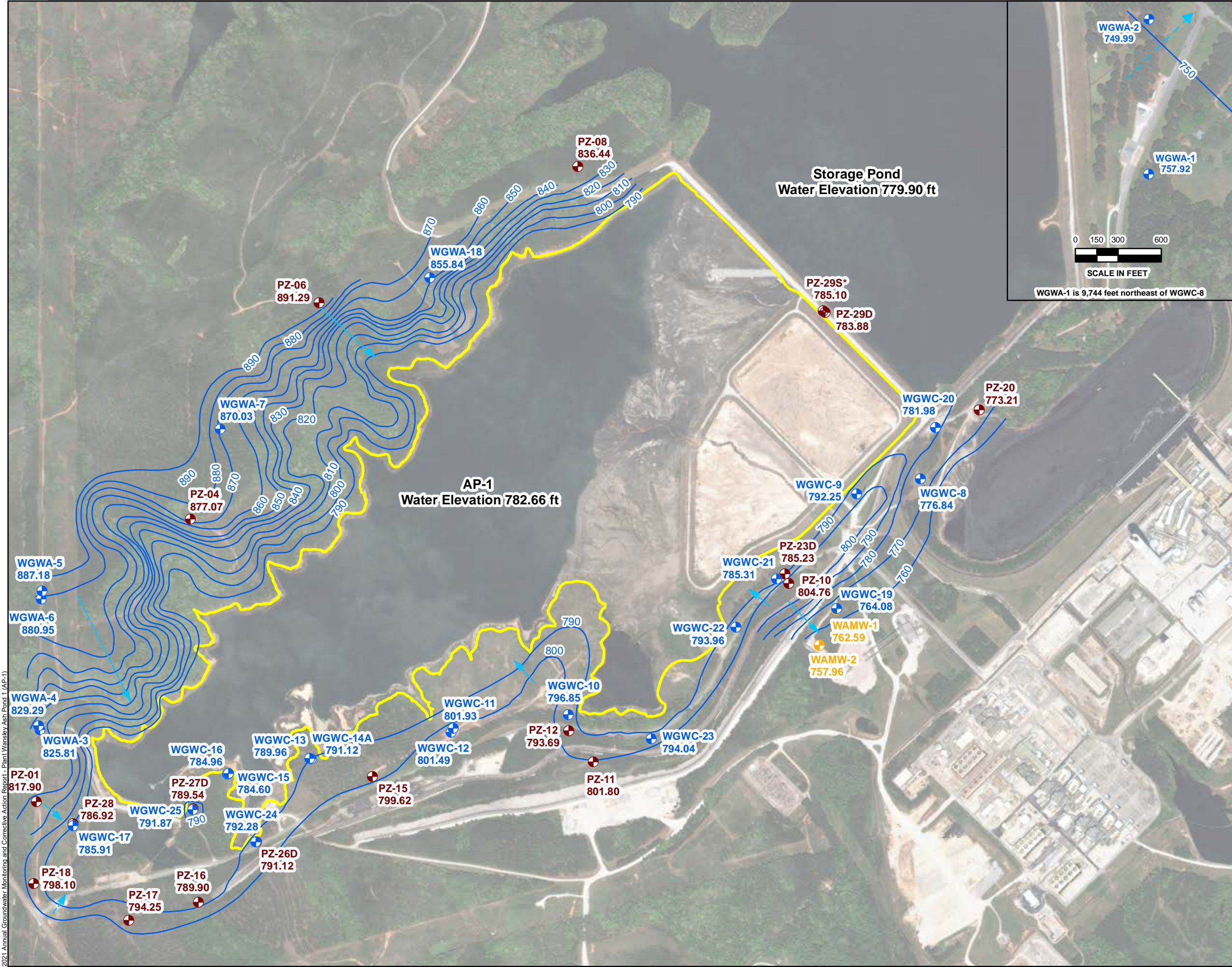
GEORGIA POWER COMPANY
 PLANT WANSLEY AP-1
 HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For:  Georgia Power

Prepared By:  Geosyntec consultants

KENNESAW, GA | JANUARY 2022

FIGURE 2



Legend

- + Compliance Monitoring Well
- + Characterization Monitoring Well
- + Piezometer
- Approximate AP-1 Boundary
- Groundwater Elevation Iso-Contour
- - - > Approximate Groundwater Flow Direction

Notes:
 1. Water level elevation recorded on February 1, 2021. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
 2. Service Layer Credits: 2020-04-05 Worldview 3 Satellite imagery. Purchased from Harris Geospatial.
 * Piezometer PZ-29S is installed within dike materials and may not be representative of actual groundwater conditions.



**POTENTIOMETRIC SURFACE CONTOUR
 MAP - FEBRUARY 2021**

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

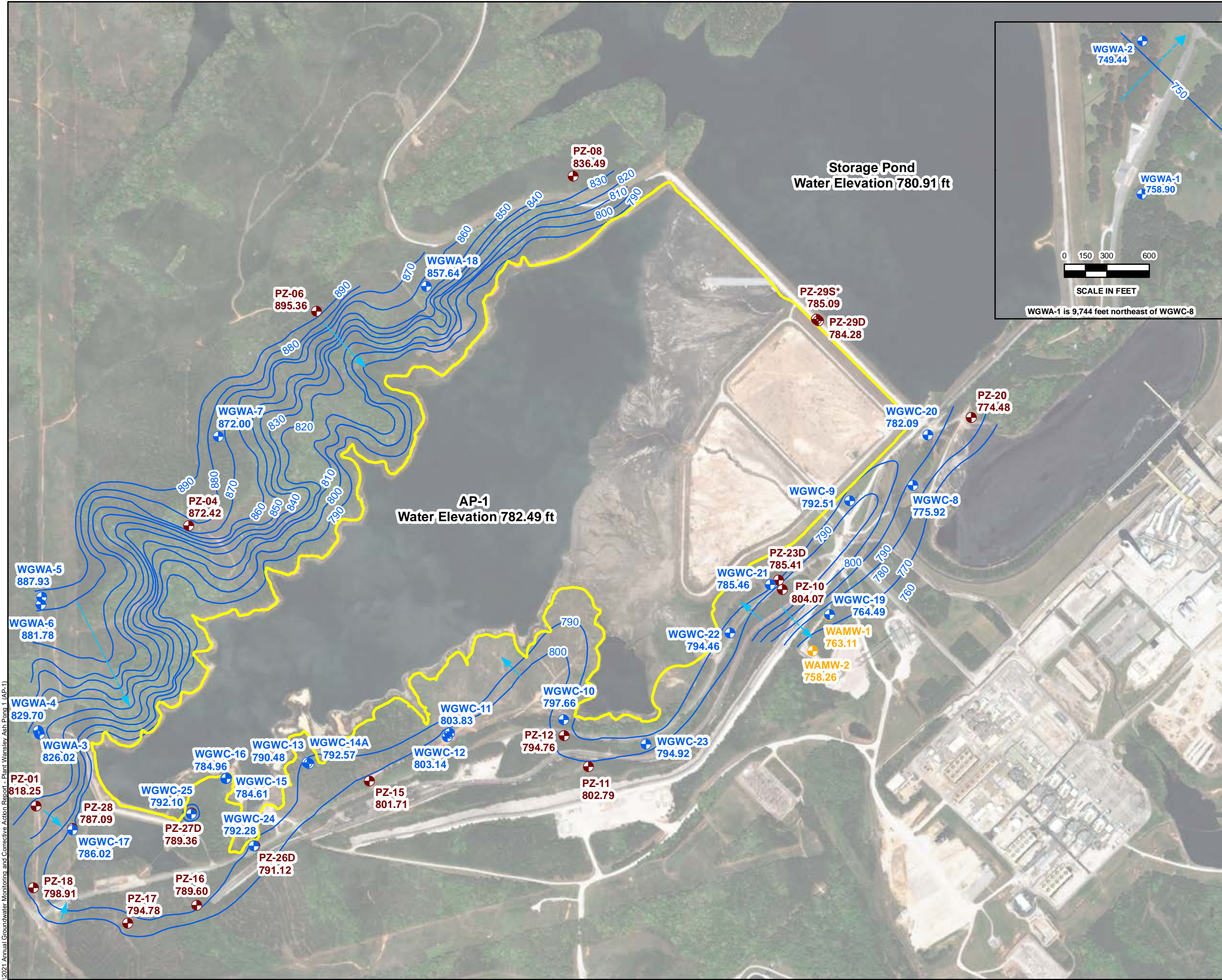
Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

**FIGURE
 3**

KENNESAW, GA JANUARY 2022

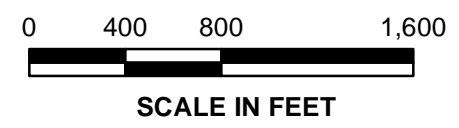
2021 Annual Groundwater Monitoring and Corrective Action Report - Plant Wansley Ash Pond 1 (AP-1)



Legend

- + Compliance Monitoring Well
- + Characterization Monitoring Well
- + Piezometer
- Approximate AP-1 Boundary
- Groundwater Elevation Iso-Contour
- - - Approximate Groundwater Flow Direction

Notes:
 1. Water level elevation recorded on March 8, 2021. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
 2. Service Layer Credits: 2020-04-05 Worldview 3 Satellite Imagery. Purchased from Harris Geospatial.
 * Piezometer PZ-29S is installed within dike materials and may not be representative of actual groundwater conditions.



**POTENTIOMETRIC SURFACE CONTOUR
 MAP - MARCH 2021**
 GEORGIA POWER COMPANY
 PLANT WANSLEY AP-1
 HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For: Georgia Power
 Prepared By: Geosyntec
 consultants

**FIGURE
 4**

KENNESAW, GA JANUARY 2022

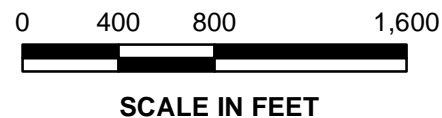
2021 Annual Groundwater Monitoring and Corrective Action Report - Plant Wansley Ash Pond 1 (AP-1)



Legend

- + Compliance Monitoring Well
- + Characterization Monitoring Well
- + Piezometer
- Approximate AP-1 Boundary
- Groundwater Elevation Iso-Contour
- > Approximate Groundwater Flow Direction

Notes:
 1. Water level elevation recorded on August 23, 2021. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
 2. Service Layer Credits: 2020-04-05 Worldview 3 Satellite imagery. Purchased from Harris Geospatial.
 * Piezometer PZ-29S is installed within dike materials and may not be representative of actual groundwater conditions.



**POTENTIOMETRIC SURFACE CONTOUR
 MAP - AUGUST 2021**

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

Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

**FIGURE
 5**

KENNESAW, GA JANUARY 2022

2021 Annual Groundwater Monitoring and Corrective Action Report - Plant Wansley Ash Pond 1 (AP-1)

APPENDIX A

Well Maintenance and Repair Documentation Memorandum



1150 Northmeadow Parkway
 Suite 100
 Roswell GA 30076
 (770) 594-5998
www.atlcc.net

MEMORANDUM

Date: November 16, 2021
 To: Kristen Jurinko – Southern Company Services
 From: Atlantic Coast Consulting
 Subject: Plant Wansley Ash Pond - Well Maintenance and Repair Documentation
 Georgia Power Company

Atlantic Coast Consulting (ACC) has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant Wansley during the 2021 Annual Groundwater Monitoring reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GAEPD) guidance on routine visual inspections of groundwater monitoring wells. Documentation of well inspections are provided as an attachment to this memorandum.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Plant Wansley /Ash Pond	3-8-2021	PZ-11	Well label added
Plant Wansley /Ash Pond	3-8-2021	PZ-17	Well label added
Plant Wansley /Ash Pond	3-8-2021	PZ-24	Added weep hole
Plant Wansley /Ash Pond	3-8-2021	PZ-27S/D	Added weep hole
Plant Wansley /Ash Pond	3-8-2021	PZ-29 S/D	Added vent hole and well label

ATTACHMENT

Well Inspection Forms

February and March
2021

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

1 - Location/Identification

		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

2 - Protective Outer Casing

		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

3 - Surface Pad

		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Facility Name: Plant Wansley AP

Staff: O. Fuquea, H. Auld

Date: 2/1/2021

4 - Internal Well Casing

		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	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?	No	No	No	No	No	No	No	No	No	No	No

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

5 - Sampling (Groundwater Monitoring Wells Only):

		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	If dedicated sampling equipment is installed, is it in good condition?	Yes	Yes	Yes	Yes	N/A	Yes	N/A	Yes	Yes	N/A	Yes
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	No	No	No	No	No	No	No

Note: N/A - Not Applicable

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

	WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

1 - Location/Identification

		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	PZ-1	PZ-4	PZ-6
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

2 - Protective Outer Casing

		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	PZ-1	PZ-4	PZ-6
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

3 - Surface Pad

		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	PZ-1	PZ-4	PZ-6
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

4 - Internal Well Casing		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	PZ-1	PZ-4	PZ-6
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	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?	No	No	No	No	No	No	No	No	No	No	No

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

5 - Sampling (Groundwater Monitoring Wells Only):

		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	PZ-1	PZ-4	PZ-6
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	No	No	No	No	N/A	N/A	N/A

Note: N/A - Not Applicable

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

	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	PZ-1	PZ-4	PZ-6
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

1 - Location/Identification

		PZ-8	PZ-10	PZ-11	PZ-12	PZ-15	PZ-16	PZ-17	PZ-18	PZ-20	PZ-22	PZ-23D
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

2 - Protective Outer Casing

		PZ-8	PZ-10	PZ-11	PZ-12	PZ-15	PZ-16	PZ-17	PZ-18	PZ-20	PZ-22	PZ-23D
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

3 - Surface Pad

		PZ-8	PZ-10	PZ-11	PZ-12	PZ-15	PZ-16	PZ-17	PZ-18	PZ-20	PZ-22	PZ-23D
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Facility Name: Plant Wansley AP

Staff: O. Fuquea, H. Auld

Date: 2/1/2021

4 - Internal Well Casing

		PZ-8	PZ-10	PZ-11	PZ-12	PZ-15	PZ-16	PZ-17	PZ-18	PZ-20	PZ-22	PZ-23D
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	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?	No	No	No	No	No	No	No	No	No	No	No

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

5 - Sampling (Groundwater Monitoring Wells Only):

		PZ-8	PZ-10	PZ-11	PZ-12	PZ-15	PZ-16	PZ-17	PZ-18	PZ-20	PZ-22	PZ-23D
a	Does the well recharge adequately when purged?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: N/A - Not Applicable

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

	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15	PZ-16	PZ-17	PZ-18	PZ-20	PZ-22	PZ-23D
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

- 1) PZ-11: Label added.

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

1 - Location/Identification

		PZ-23S	PZ-24	PZ-25S	PZ-26D	PZ-26S	PZ-27D	PZ-27S	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

2 - Protective Outer Casing

		PZ-23S	PZ-24	PZ-25S	PZ-26D	PZ-26S	PZ-27D	PZ-27S	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

3 - Surface Pad

		PZ-23S	PZ-24	PZ-25S	PZ-26D	PZ-26S	PZ-27D	PZ-27S	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

4 - Internal Well Casing

		PZ-23S	PZ-24	PZ-25S	PZ-26D	PZ-26S	PZ-27D	PZ-27S	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	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?	No	No	No	No	No	No	No	No	No	No	No	No

Facility Name: Plant Wansley AP
 Staff: O. Fuquea, H. Auld
 Date: 2/1/2021

5 - Sampling (Groundwater Monitoring Wells Only):

		PZ-23S	PZ-24	PZ-25S	PZ-26D	PZ-26S	PZ-27D	PZ-27S	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Does the well recharge adequately when purged?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: N/A - Not Applicable

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

	PZ-23S	PZ-24	PZ-25S	PZ-26D	PZ-26S	PZ-27D	PZ-27S	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

- 1) PZ-29D: Label and vent hole added.
- 2) PZ-29S: Label and vent hole added.

Well Inspection Form - Well Inspection Criteria

Date: 3-8-21

Staff: R.W. - T.G. - H.A.

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?

Well Inspection Form - Well Condition Log

Initials: RW

Page:

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	✓			
WGWA-1	✓			
WGWA-2	✓			
WGWA-3	✓			
WGWA-4	✓			
WGWA-5	✓			

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

Initials: *RW*

Well ID	Good Condition All Criteria Met	Deficiencies	Corrective Action Taken	Corrective Action Still Needed
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	✓			
PZ-29S		✓	✓	
PZ-29D		✓	✓	
PZ-24		✓	✓	
PZ-27S		✓	✓	
PZ-27D		✓	✓	

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

PZ-11, BB, DD	Deficiency Noted: No label
	Action Taken: label added
L-PZ-3	Deficiency Noted: No cap
	Action Taken: cap added
PZ-24 s/D	Deficiency Noted: No vent hole / No label
	Action Taken: Vent hole / label added
PZ-17	Deficiency Noted: label faded
	Action Taken: added label
PZ-24, PZ-27 s/D	Deficiency Noted: No weep hole
	Action Taken: weep hole 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

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

Summary

Initials: RW

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: RW-TG-1A

Signature: [Signature]

Date: 3-8-21



1150 Northmeadow Parkway
 Suite 100
 Roswell GA 30076
 (770) 594-5998
www.atlcc.net

MEMORANDUM

Date: August 16, 2021
 To: Kristen Jurinko – Southern Company Services
 From: Atlantic Coast Consulting
 Subject: Plant Wansley Ash Pond - Well Maintenance and Repair Documentation
 Georgia Power Company

Atlantic Coast Consulting (ACC) has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant Wansley during the 2021 Annual Groundwater Monitoring reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GAEPD) guidance on routine visual inspections of groundwater monitoring wells. Documentation of well inspections are provided as an attachment to this memorandum.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Plant Wansley /Ash Pond	8/16/2021	WGWC-21	Missing well label. Installed well label.
Plant Wansley /Ash Pond	8/16/2021	WGWC-22	Missing well label. Installed well label.
Plant Wansley /Ash Pond	8/16/2021	WGWC-23	Missing well label. Installed well label.
Plant Wansley /Ash Pond	8/16/2021	WGWC-24	Missing well label. Installed well label.
Plant Wansley /Ash Pond	8/16/2021	WGWC-25	Missing well label. Installed well label.

ATTACHMENT

Well Inspection Forms

August 2021

Well Inspection Form - Well Inspection Criteria

Date: 8-16-21

Staff: RW - TJS - OF

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?

Well Inspection Form - Well Condition Log

Date: 8/16/21

Initials: RW. TS. OF

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.

Note: WGWA - 3/4/5/6 area overgrown
 WGWC - 11/12 area overgrown

Well Inspection Form - Well Condition Log

Date: 8/16/21

Initials: L.W TS - OF

Well ID	Good Condition All Criteria Met	Deficiencies	Corrective Action Taken	Corrective Action Still Needed
WGWC-20	✓			
WGWC-21		✓	✓	
WGWC-22		✓	✓	
WGWC-23		✓	✓	
WGWC-24		✓	✓	
WGWC-25		✓	✓	
PZ-1	✓			
PZ-4	✓			
PZ-6	✓			
PZ-8	✓			
PZ-10	✓			
PZ-11	✓			
PZ-12	✓			
PZ-15	✓			
PZ-16	✓			
PZ-17	✓			
PZ-18	✓			
PZ-20	✓			
PZ-23D	✓			

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.

Note: PZ-16 area overgrown

Well Inspection Form - Well Condition Log

Date: 8/16/21

Initials: RW-TJ OF

Well ID	Good Condition All Criteria Met	Deficiencies	Corrective Action Taken	Corrective Action Still Needed
PZ-26D	✓			
PZ-27D	✓			
PZ-28	✓			
PZ-29D	✓			
PZ-29S	✓			
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.

APPENDIX B

Piper Trilinear Plot

DATE: August 4, 2021

TO: Kristen Jurinko, P.G., Southern Company Services, Inc.
Ben Hodges, P.G., Georgia Power Company
Lauren Petty, P.G., Georgia Power Company

FROM: Adria Reimer, P.G., Geosyntec Consultants, Inc.
Herwig Goldemund, Ph.D., Geosyntec Consultants, Inc.

**SUBJECT: Piper Trilinear Plot
Georgia Power Company, Plant Wansley Ash Pond 1 (AP-1)**

INTRODUCTION

Results from groundwater samples collected in March 2021 from compliance monitoring wells located upgradient of Plant Wansley Ash Pond 1 (AP-1) (i.e., WGWA-1 through WGWA-7, and WGWA-18) and downgradient of AP-1 (i.e., WGWC-8 through WGWC-17, and WGWC-19 through WGWC-25), as well as piezometers PZ-23D, PZ-26D, PZ-27D, PZ-28, and PZ-29D, were used to conduct a geochemical analysis of groundwater. Collected groundwater samples were analyzed for the major cations (i.e., calcium, magnesium, sodium, and potassium) and anions (i.e., chloride, sulfate, and bicarbonate). Prior to proceeding with this geochemical evaluation, a charge balance of the major ions was conducted for each sample. A charge balance is mathematically expressed as the percent difference between cation and anion concentrations. The charge balance, which gives an indication of the analytical data quality, should generally be within ± 10 percent. All samples used in this analysis were within this criterion, with the exception of samples collected from WGWC-14A and WGWC-23 (former PZ-25S). Therefore, these two samples were not included in this analysis.

PIPER TRILINEAR PLOT CONSTRUCTION

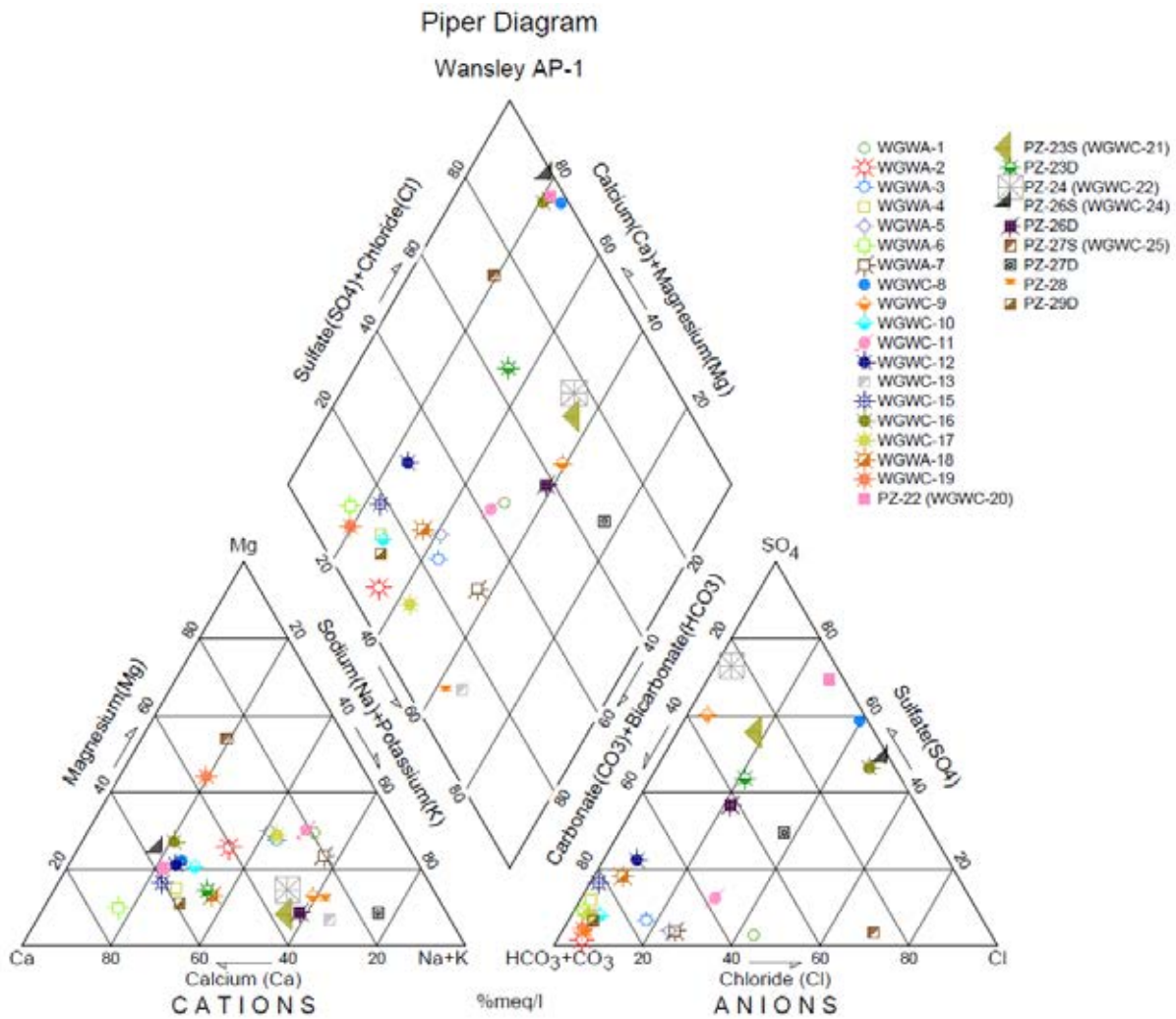
The major ions were used to construct a Piper diagram, which is a common tool for assessing geochemical similarities and differences between aqueous samples. Laboratory data, which are normally reported in milligrams per liter (mg/L), are converted to milliequivalents per liter (meq/L) when plotted on a Piper diagram.

Piper diagrams are trilinear diagrams that plot the relative contributions of major ions to the overall geochemical makeup of a liquid sample. The diagram has three components. The large diamond-shaped component displays the combined cation and anion composition of major solutes. The two

smaller triangular components display the cation components and the anion components, separately and in greater detail. The sample data are plotted as a percentage of the total milliequivalents on the diagram with each component reaching 100 percent at its respective corner of the diagram. If the results from discrete samples plot relatively close to each other, their respective chemical compositions are similar, and they might have a similar (or the same) source of solutes. One can also see mixing of different waters if the samples fall along straight lines between various water types (e.g., mixing of calcium/magnesium carbonate water, such as limestone or dolomite with calcium sulfate water, such as gypsum).

GROUNDWATER GEOCHEMICAL EVALUATION

The resulting Piper diagram for groundwater data collected in March 2021 is presented below¹.



¹ Data for WGWC-14A and PZ-25S (reclassified as WGWC-23) are not shown as the charge balance for each is not within ± 10 percent based on results of groundwater samples collected in March 2021.

As can be seen on this Piper plot, with a few exceptions further discussed below, the data generally show highly variable geochemical conditions across the Site, including within the background wells. As described in the *Hydrogeologic Assessment Report Revision 01* (HAR Rev. 01) prepared for AP-1 by Geosyntec (2019), due to the steep topography at the Site and the variable lithologic framework, the depth to the water table is variable, ranging from approximately 1 to 50 feet below ground surface (ft bgs). The uppermost aquifer at AP-1 occurs primarily in partially weathered rock (PWR) and fractured bedrock. In localized areas south of AP-1 shallower groundwater elevations are noted within saprolite. Further, there are several bedrock geologic units present at AP-1, with units north and northwest of AP-1 differing from those southeast and south of the ash pond. Correspondingly, the depths of compliance well and piezometer screens, as well as the materials within the screen interval (e.g., saprolite, PWR, bedrock unit) vary spatially across the Site.

Therefore, the wide range of geochemical conditions depicted on the diagram is consistent with the variability of the geologic units in which these wells and piezometers are screened. A small grouping of four wells (i.e., WGWC-8, WGWC-16, WGWC-20 [former PZ-22], and WGWC-24 [former PZ-26S]) plot close to each other within the calcium-sulfate portion of the diamond-shape Piper diagram. Other downgradient wells and piezometers plot within the range of background wells, highlighting the natural variability in groundwater conditions at AP-1.

APPENDIX C

Analytical Laboratory Results and Field Sampling Forms

Appendix C1: Laboratory Analytical Data Packages and Data
Validation Reports

Appendix C2: Field Sampling Forms

Appendix C1: Laboratory Analytical Data Packages

ANALYTICAL REPORT

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

Laboratory Job ID: 180-116807-1

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:
4/5/2021 7:12:21 AM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

Review your project
results through
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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



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Case Narrative

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

Job ID: 180-116807-1

Job ID: 180-116807-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-116807-1**

Comments

040521 Revised Report to correct Fluoride RL from 0.2 to 0.1mg/L; this report replaces the report previously issued on

Receipt

The samples were received on 2/4/2021 9:30 AM and 2/6/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.2° C, 2.1° C, 2.5° C, 2.6° C, 2.8° C and 3.1° C.

Receipt Exceptions

The container labels for the two plastic liters for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWC-12 (180-116916-7). The container labels list a sample collection date of 2/2/21, while the COC lists 2/3/21. The date on the COC was used.

The container label for one out of two of the plastic liters for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWC-17 (180-116916-11). The container labels list a sample collection date of 3/2/21 while the COC lists 2/4/21. The date on the COC was used.

GC Semi VOA

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

Metals

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

Field Service / Mobile Lab

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

Definitions/Glossary

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

Job ID: 180-116807-1

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.
▫	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: 180-116807-1

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	02-21-21
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	01-31-22
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-21
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	07-31-21
New Hampshire	NELAP	2030	04-05-21
New Jersey	NELAP	PA005	06-30-21
New York	NELAP	11182	03-31-21
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-21
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	01-31-22
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: 180-116807-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-116807-1	Dup-1	Water	02/02/21 00:00	02/04/21 09:30	
180-116807-2	EB-1	Water	02/02/21 14:45	02/04/21 09:30	
180-116807-3	WGWA-1	Water	02/02/21 11:15	02/04/21 09:30	
180-116807-4	WGWA-2	Water	02/02/21 12:20	02/04/21 09:30	
180-116807-5	WGWA-18	Water	02/02/21 14:50	02/04/21 09:30	
180-116807-6	WGWA-3	Water	02/02/21 11:45	02/04/21 09:30	
180-116807-7	WGWA-4	Water	02/02/21 12:50	02/04/21 09:30	
180-116807-8	WGWA-7	Water	02/02/21 14:10	02/04/21 09:30	
180-116916-1	Dup-2	Water	02/04/21 00:00	02/06/21 10:00	
180-116916-2	FB-2	Water	02/04/21 13:20	02/06/21 10:00	
180-116916-3	WGWA-6	Water	02/03/21 10:30	02/06/21 10:00	
180-116916-4	WGWA-5	Water	02/03/21 13:25	02/06/21 10:00	
180-116916-5	WGWC-19	Water	02/03/21 14:30	02/06/21 10:00	
180-116916-6	WGWC-11	Water	02/03/21 14:35	02/06/21 10:00	
180-116916-7	WGWC-12	Water	02/03/21 13:25	02/06/21 10:00	
180-116916-8	WGWC-8	Water	02/03/21 15:45	02/06/21 10:00	
180-116916-9	WGWC-15	Water	02/04/21 11:05	02/06/21 10:00	
180-116916-10	WGWC-16	Water	02/04/21 12:30	02/06/21 10:00	
180-116916-11	WGWC-17	Water	02/04/21 13:45	02/06/21 10:00	
180-116916-12	FB-1	Water	02/04/21 14:15	02/06/21 10:00	
180-116916-13	EB-2	Water	02/04/21 14:30	02/06/21 10:00	
180-116916-14	WGWC-9	Water	02/04/21 14:12	02/06/21 10:00	
180-116916-15	WGWC-10	Water	02/04/21 15:50	02/06/21 10:00	
180-116916-16	WGWC-13	Water	02/04/21 11:15	02/06/21 10:00	
180-116916-17	WGWC-14A	Water	02/04/21 12:40	02/06/21 10:00	

Method Summary

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

Job ID: 180-116807-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: 180-116807-1

Client Sample ID: Dup-1

Date Collected: 02/02/21 00:00

Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			345752	02/06/21 15:03	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346412	02/12/21 11:15	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			346771	02/13/21 12:12	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	345897	02/09/21 06:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			346160	02/10/21 11:48	KHM	TAL PIT
Instrument ID: HGY										

Client Sample ID: EB-1

Date Collected: 02/02/21 14:45

Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-2

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	300.0		1			345752	02/06/21 16:05	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346412	02/12/21 11:15	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			346771	02/13/21 12:16	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	345897	02/09/21 06:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			346160	02/10/21 11:52	KHM	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWA-1

Date Collected: 02/02/21 11:15

Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-3

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	300.0		1			345752	02/06/21 16:26	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346412	02/12/21 11:15	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			346771	02/13/21 12:19	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	345897	02/09/21 06:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			346160	02/10/21 11:53	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	Field Sampling		1			346556	02/02/21 11:15	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-2

Date Collected: 02/02/21 12:20

Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-4

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	300.0		1			345752	02/06/21 13:39	SAT	TAL PIT
Instrument ID: INTEGRION										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-116807-1

Client Sample ID: WGWA-2

Lab Sample ID: 180-116807-4

Date Collected: 02/02/21 12:20

Matrix: Water

Date Received: 02/04/21 09:30

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	346412	02/12/21 11:15	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			346771	02/13/21 12:38	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	345897	02/09/21 06:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			346160	02/10/21 11:54	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	Field Sampling		1			346556	02/02/21 12:20	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-18

Lab Sample ID: 180-116807-5

Date Collected: 02/02/21 14:50

Matrix: Water

Date Received: 02/04/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			345752	02/06/21 14:00	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346412	02/12/21 11:15	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			346771	02/13/21 12:59	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	345897	02/09/21 06:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			346160	02/10/21 11:55	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	Field Sampling		1			346556	02/02/21 14:50	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3

Lab Sample ID: 180-116807-6

Date Collected: 02/02/21 11:45

Matrix: Water

Date Received: 02/04/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			345752	02/06/21 14:42	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346412	02/12/21 11:15	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			346771	02/13/21 13:03	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	345897	02/09/21 06:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			346160	02/10/21 11:56	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	Field Sampling		1			346556	02/02/21 11:45	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-116807-1

Client Sample ID: WGWA-4

Lab Sample ID: 180-116807-7

Date Collected: 02/02/21 12:50

Matrix: Water

Date Received: 02/04/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			345752	02/06/21 14:21	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346412	02/12/21 11:15	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			346771	02/13/21 13:07	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	345897	02/09/21 06:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			346160	02/10/21 11:57	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	Field Sampling		1			346556	02/02/21 12:50	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Lab Sample ID: 180-116807-8

Date Collected: 02/02/21 14:10

Matrix: Water

Date Received: 02/04/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			345752	02/06/21 12:36	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346412	02/12/21 11:15	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			346771	02/13/21 13:10	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	345897	02/09/21 06:53	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			346160	02/10/21 11:58	KHM	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	Field Sampling		1			346556	02/02/21 14:10	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: Dup-2

Lab Sample ID: 180-116916-1

Date Collected: 02/04/21 00:00

Matrix: Water

Date Received: 02/06/21 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	300.0		1			346367	02/12/21 23:09	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 12:24	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346077	02/10/21 07:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			347002	02/18/21 11:37	KHM	TAL PIT
Instrument ID: HGZ										

Lab Chronicle

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

Job ID: 180-116807-1

Client Sample ID: FB-2

Lab Sample ID: 180-116916-2

Date Collected: 02/04/21 13:20

Matrix: Water

Date Received: 02/06/21 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	300.0		1			346231	02/11/21 16:57	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 12:27	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346077	02/10/21 07:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			347002	02/18/21 11:38	KHM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWA-6

Lab Sample ID: 180-116916-3

Date Collected: 02/03/21 10:30

Matrix: Water

Date Received: 02/06/21 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	300.0		1			346367	02/13/21 02:17	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 12:38	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346077	02/10/21 07:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			347002	02/18/21 11:39	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	Field Sampling		1			346556	02/03/21 10:30	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 180-116916-4

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 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	300.0		1			346367	02/12/21 22:28	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 12:56	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346077	02/10/21 07:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			347002	02/18/21 11:40	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	Field Sampling		1			346556	02/03/21 13:25	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-116807-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-116916-5

Date Collected: 02/03/21 14:30

Matrix: Water

Date Received: 02/06/21 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	300.0		1			346367	02/13/21 01:56	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 13:00	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346077	02/10/21 07:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			347002	02/18/21 11:41	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	Field Sampling		1			346556	02/03/21 14:30	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-11

Lab Sample ID: 180-116916-6

Date Collected: 02/03/21 14:35

Matrix: Water

Date Received: 02/06/21 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	300.0		1			346231	02/11/21 20:13	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 13:04	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346077	02/10/21 07:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			347002	02/18/21 11:42	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	Field Sampling		1			346556	02/03/21 14:35	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-12

Lab Sample ID: 180-116916-7

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 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	300.0		1			346367	02/13/21 02:38	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 13:07	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346077	02/10/21 07:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			347002	02/18/21 11:43	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	Field Sampling		1			346556	02/03/21 13:25	FDS	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-116807-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-116916-8

Date Collected: 02/03/21 15:45

Matrix: Water

Date Received: 02/06/21 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	300.0		1			346367	02/12/21 21:46	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 13:18	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346077	02/10/21 07:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			347002	02/18/21 11:44	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	Field Sampling		1			346556	02/03/21 15:45	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Lab Sample ID: 180-116916-9

Date Collected: 02/04/21 11:05

Matrix: Water

Date Received: 02/06/21 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	300.0		1			346367	02/13/21 01:14	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 13:22	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346077	02/10/21 07:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			347002	02/18/21 11:45	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	Field Sampling		1			346556	02/04/21 11:05	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-16

Lab Sample ID: 180-116916-10

Date Collected: 02/04/21 12:30

Matrix: Water

Date Received: 02/06/21 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	300.0		1			346367	02/12/21 22:48	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 13:25	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346077	02/10/21 07:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			347002	02/18/21 11:48	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	Field Sampling		1			346556	02/04/21 12:30	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-116807-1

Client Sample ID: WGWC-17

Date Collected: 02/04/21 13:45

Date Received: 02/06/21 10:00

Lab Sample ID: 180-116916-11

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	300.0		1			346231	02/11/21 19:57	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 13:29	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346077	02/10/21 07:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			347002	02/18/21 11:49	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	Field Sampling		1			346556	02/04/21 13:45	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-1

Date Collected: 02/04/21 14:15

Date Received: 02/06/21 10:00

Lab Sample ID: 180-116916-12

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	300.0		1			346231	02/11/21 17:13	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 13:33	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346077	02/10/21 07:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			347002	02/18/21 11:50	KHM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: EB-2

Date Collected: 02/04/21 14:30

Date Received: 02/06/21 10:00

Lab Sample ID: 180-116916-13

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	300.0		1			346231	02/11/21 17:30	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 13:36	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346077	02/10/21 07:00	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			347002	02/18/21 11:51	KHM	TAL PIT
Instrument ID: HGZ										

Client Sample ID: WGWC-9

Date Collected: 02/04/21 14:12

Date Received: 02/06/21 10:00

Lab Sample ID: 180-116916-14

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	300.0		1			346367	02/13/21 01:35	EPS	TAL PIT
Instrument ID: INTEGRION										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-116807-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-116916-14

Date Collected: 02/04/21 14:12

Matrix: Water

Date Received: 02/06/21 10:00

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	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 13:40	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346076	02/10/21 06:58	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			346421	02/12/21 10:53	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	Field Sampling		1			346556	02/04/21 14:12	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10

Lab Sample ID: 180-116916-15

Date Collected: 02/04/21 15:50

Matrix: Water

Date Received: 02/06/21 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	300.0		1			346231	02/11/21 19:40	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 13:44	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346076	02/10/21 06:58	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			346421	02/12/21 10:56	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	Field Sampling		1			346556	02/04/21 15:50	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-13

Lab Sample ID: 180-116916-16

Date Collected: 02/04/21 11:15

Matrix: Water

Date Received: 02/06/21 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	300.0		1			346367	02/13/21 00:12	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 13:47	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346076	02/10/21 06:58	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			346421	02/12/21 10:56	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	Field Sampling		1			346556	02/04/21 11:15	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-116807-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-116916-17

Date Collected: 02/04/21 12:40

Matrix: Water

Date Received: 02/06/21 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	300.0		1	1 mL	1.0 mL	346231	02/11/21 18:51	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	346791	02/17/21 07:39	RJR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			347044	02/18/21 13:58	RSK	TAL PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	346076	02/10/21 06:58	KHM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			346421	02/12/21 10:57	KHM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	Field Sampling		1			346556	02/04/21 12:40	FDS	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

KHM = Kyle Mucroski

RJR = Ron Rosenbaum

Batch Type: Analysis

EPS = Evan Scheuer

FDS = Sampler Field

KHM = Kyle Mucroski

RSK = Robert Kurtz

SAT = Stephen Tallam

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: Dup-1

Lab Sample ID: 180-116807-1

Date Collected: 02/02/21 00:00

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.035	J	0.10	0.026	mg/L			02/06/21 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/21 11:15	02/13/21 12:12	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/12/21 11:15	02/13/21 12:12	1
Barium	0.014		0.010	0.0016	mg/L		02/12/21 11:15	02/13/21 12:12	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/12/21 11:15	02/13/21 12:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/21 11:15	02/13/21 12:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/21 11:15	02/13/21 12:12	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/12/21 11:15	02/13/21 12:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/12/21 11:15	02/13/21 12:12	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/12/21 11:15	02/13/21 12:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/12/21 11:15	02/13/21 12:12	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/21 11:15	02/13/21 12:12	1
Thallium	0.00028	J	0.0010	0.00015	mg/L		02/12/21 11:15	02/13/21 12:12	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/09/21 06:53	02/10/21 11:48	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: EB-1

Lab Sample ID: 180-116807-2

Date Collected: 02/02/21 14:45

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			02/06/21 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/21 11:15	02/13/21 12:16	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/12/21 11:15	02/13/21 12:16	1
Barium	<0.0016		0.010	0.0016	mg/L		02/12/21 11:15	02/13/21 12:16	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/12/21 11:15	02/13/21 12:16	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/21 11:15	02/13/21 12:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/21 11:15	02/13/21 12:16	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/12/21 11:15	02/13/21 12:16	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/12/21 11:15	02/13/21 12:16	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/12/21 11:15	02/13/21 12:16	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/12/21 11:15	02/13/21 12:16	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/21 11:15	02/13/21 12:16	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/21 11:15	02/13/21 12:16	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/09/21 06:53	02/10/21 11:52	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-116807-3

Date Collected: 02/02/21 11:15

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.028	J	0.10	0.026	mg/L			02/06/21 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00062	J	0.0020	0.00038	mg/L		02/12/21 11:15	02/13/21 12:19	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/12/21 11:15	02/13/21 12:19	1
Barium	0.050		0.010	0.0016	mg/L		02/12/21 11:15	02/13/21 12:19	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/12/21 11:15	02/13/21 12:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/21 11:15	02/13/21 12:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/21 11:15	02/13/21 12:19	1
Cobalt	0.00082	J	0.0025	0.00013	mg/L		02/12/21 11:15	02/13/21 12:19	1
Lead	0.00015	J	0.0010	0.00013	mg/L		02/12/21 11:15	02/13/21 12:19	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/12/21 11:15	02/13/21 12:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/12/21 11:15	02/13/21 12:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/21 11:15	02/13/21 12:19	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/21 11:15	02/13/21 12:19	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/09/21 06:53	02/10/21 11:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.36				SU			02/02/21 11:15	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWA-2

Lab Sample ID: 180-116807-4

Date Collected: 02/02/21 12:20

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.065	J	0.10	0.026	mg/L			02/06/21 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/21 11:15	02/13/21 12:38	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/12/21 11:15	02/13/21 12:38	1
Barium	0.025		0.010	0.0016	mg/L		02/12/21 11:15	02/13/21 12:38	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/12/21 11:15	02/13/21 12:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/21 11:15	02/13/21 12:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/21 11:15	02/13/21 12:38	1
Cobalt	0.00069	J	0.0025	0.00013	mg/L		02/12/21 11:15	02/13/21 12:38	1
Lead	0.00015	J	0.0010	0.00013	mg/L		02/12/21 11:15	02/13/21 12:38	1
Lithium	0.0065		0.0050	0.0034	mg/L		02/12/21 11:15	02/13/21 12:38	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/12/21 11:15	02/13/21 12:38	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/21 11:15	02/13/21 12:38	1
Thallium	0.00040	J	0.0010	0.00015	mg/L		02/12/21 11:15	02/13/21 12:38	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/09/21 06:53	02/10/21 11:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.10				SU			02/02/21 12:20	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-116807-5

Date Collected: 02/02/21 14:50

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.071	J	0.10	0.026	mg/L			02/06/21 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/21 11:15	02/13/21 12:59	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/12/21 11:15	02/13/21 12:59	1
Barium	0.017		0.010	0.0016	mg/L		02/12/21 11:15	02/13/21 12:59	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/12/21 11:15	02/13/21 12:59	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/21 11:15	02/13/21 12:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/21 11:15	02/13/21 12:59	1
Cobalt	0.0018	J	0.0025	0.00013	mg/L		02/12/21 11:15	02/13/21 12:59	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/12/21 11:15	02/13/21 12:59	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/12/21 11:15	02/13/21 12:59	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/12/21 11:15	02/13/21 12:59	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/21 11:15	02/13/21 12:59	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/21 11:15	02/13/21 12:59	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/09/21 06:53	02/10/21 11:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.48				SU			02/02/21 14:50	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-116807-6

Date Collected: 02/02/21 11:45

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.035	J	0.10	0.026	mg/L			02/06/21 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/21 11:15	02/13/21 13:03	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/12/21 11:15	02/13/21 13:03	1
Barium	0.015		0.010	0.0016	mg/L		02/12/21 11:15	02/13/21 13:03	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/12/21 11:15	02/13/21 13:03	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/21 11:15	02/13/21 13:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/21 11:15	02/13/21 13:03	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/12/21 11:15	02/13/21 13:03	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/12/21 11:15	02/13/21 13:03	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/12/21 11:15	02/13/21 13:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/12/21 11:15	02/13/21 13:03	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/21 11:15	02/13/21 13:03	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/21 11:15	02/13/21 13:03	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/09/21 06:53	02/10/21 11:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.78				SU			02/02/21 11:45	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWA-4

Lab Sample ID: 180-116807-7

Date Collected: 02/02/21 12:50

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.15		0.10	0.026	mg/L			02/06/21 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/21 11:15	02/13/21 13:07	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/12/21 11:15	02/13/21 13:07	1
Barium	0.0060	J	0.010	0.0016	mg/L		02/12/21 11:15	02/13/21 13:07	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/12/21 11:15	02/13/21 13:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/21 11:15	02/13/21 13:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/21 11:15	02/13/21 13:07	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/12/21 11:15	02/13/21 13:07	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/12/21 11:15	02/13/21 13:07	1
Lithium	0.0039	J	0.0050	0.0034	mg/L		02/12/21 11:15	02/13/21 13:07	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/12/21 11:15	02/13/21 13:07	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/21 11:15	02/13/21 13:07	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/21 11:15	02/13/21 13:07	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/09/21 06:53	02/10/21 11:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.61				SU			02/02/21 12:50	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-116807-8

Date Collected: 02/02/21 14:10

Matrix: Water

Date Received: 02/04/21 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			02/06/21 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/21 11:15	02/13/21 13:10	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/12/21 11:15	02/13/21 13:10	1
Barium	0.012		0.010	0.0016	mg/L		02/12/21 11:15	02/13/21 13:10	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/12/21 11:15	02/13/21 13:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/21 11:15	02/13/21 13:10	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/21 11:15	02/13/21 13:10	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/12/21 11:15	02/13/21 13:10	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/12/21 11:15	02/13/21 13:10	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/12/21 11:15	02/13/21 13:10	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/12/21 11:15	02/13/21 13:10	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/21 11:15	02/13/21 13:10	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/21 11:15	02/13/21 13:10	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/09/21 06:53	02/10/21 11:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.84				SU			02/02/21 14:10	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: Dup-2
 Date Collected: 02/04/21 00:00
 Date Received: 02/06/21 10:00

Lab Sample ID: 180-116916-1
 Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.69		0.10	0.026	mg/L			02/12/21 23:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00052	J	0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 12:24	1
Arsenic	0.00083	J	0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 12:24	1
Barium	0.029		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 12:24	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 12:24	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 12:24	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 12:24	1
Cobalt	0.00018	J	0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 12:24	1
Lead	0.00043	J	0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 12:24	1
Lithium	0.0088		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 12:24	1
Molybdenum	0.0024	J	0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 12:24	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 12:24	1
Thallium	0.00030	J	0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 12:24	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 07:00	02/18/21 11:37	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: FB-2

Lab Sample ID: 180-116916-2

Date Collected: 02/04/21 13:20

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			02/11/21 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 12:27	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 12:27	1
Barium	<0.0016		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 12:27	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 12:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 12:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 12:27	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 12:27	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 12:27	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 12:27	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 12:27	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 12:27	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 12:27	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 07:00	02/18/21 11:38	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWA-6

Lab Sample ID: 180-116916-3

Date Collected: 02/03/21 10:30

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.088	J	0.10	0.026	mg/L			02/13/21 02:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 12:38	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 12:38	1
Barium	0.0079	J	0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 12:38	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 12:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 12:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 12:38	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 12:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 12:38	1
Lithium	0.0047	J	0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 12:38	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 12:38	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 12:38	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 12:38	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 07:00	02/18/21 11:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.76				SU			02/03/21 10:30	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-116916-4

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			02/12/21 22:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 12:56	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 12:56	1
Barium	0.015		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 12:56	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 12:56	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 12:56	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 12:56	1
Cobalt	0.0015	J	0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 12:56	1
Lead	0.00019	J	0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 12:56	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 12:56	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 12:56	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 12:56	1
Thallium	0.00042	J	0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 12:56	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 07:00	02/18/21 11:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.30				SU			02/03/21 13:25	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-116916-5

Date Collected: 02/03/21 14:30

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.30		0.10	0.026	mg/L			02/13/21 01:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 13:00	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 13:00	1
Barium	<0.0016		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 13:00	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 13:00	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 13:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 13:00	1
Cobalt	0.00025	J	0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 13:00	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 13:00	1
Lithium	0.060		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 13:00	1
Molybdenum	0.0013	J	0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 13:00	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 13:00	1
Thallium	0.00018	J	0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 13:00	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 07:00	02/18/21 11:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.75				SU			02/03/21 14:30	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWC-11

Lab Sample ID: 180-116916-6

Date Collected: 02/03/21 14:35

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.027	J	0.10	0.026	mg/L			02/11/21 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 13:04	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 13:04	1
Barium	0.039		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 13:04	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 13:04	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 13:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 13:04	1
Cobalt	0.00072	J	0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 13:04	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 13:04	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 13:04	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 13:04	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 13:04	1
Thallium	0.00016	J	0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 13:04	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 07:00	02/18/21 11:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.21				SU			02/03/21 14:35	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-116916-7

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.082	J	0.10	0.026	mg/L			02/13/21 02:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 13:07	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 13:07	1
Barium	0.015		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 13:07	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 13:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 13:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 13:07	1
Cobalt	0.00017	J	0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 13:07	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 13:07	1
Lithium	0.0075		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 13:07	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 13:07	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 13:07	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 13:07	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 07:00	02/18/21 11:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.15				SU			02/03/21 13:25	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-116916-8

Date Collected: 02/03/21 15:45

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.15		0.10	0.026	mg/L			02/12/21 21:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 13:18	1
Arsenic	0.0013		0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 13:18	1
Barium	<0.0016		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 13:18	1
Beryllium	0.0025		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 13:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 13:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 13:18	1
Cobalt	0.00014	J	0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 13:18	1
Lead	0.00013	J	0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 13:18	1
Lithium	0.014		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 13:18	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 13:18	1
Selenium	0.0036	J	0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 13:18	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 13:18	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 07:00	02/18/21 11:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.08				SU			02/03/21 15:45	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWC-15

Lab Sample ID: 180-116916-9

Date Collected: 02/04/21 11:05

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.69		0.10	0.026	mg/L			02/13/21 01:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 13:22	1
Arsenic	0.00069	J	0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 13:22	1
Barium	0.028		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 13:22	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 13:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 13:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 13:22	1
Cobalt	0.00015	J	0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 13:22	1
Lead	0.00030	J	0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 13:22	1
Lithium	0.0086		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 13:22	1
Molybdenum	0.0022	J	0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 13:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 13:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 13:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 07:00	02/18/21 11:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77				SU			02/04/21 11:05	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWC-16

Lab Sample ID: 180-116916-10

Date Collected: 02/04/21 12:30

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.052	J	0.10	0.026	mg/L			02/12/21 22:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 13:25	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 13:25	1
Barium	0.039		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 13:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 13:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 13:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 13:25	1
Cobalt	0.00026	J	0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 13:25	1
Lead	0.00013	J	0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 13:25	1
Lithium	0.0051		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 13:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 13:25	1
Selenium	0.0023	J	0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 13:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 13:25	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 07:00	02/18/21 11:48	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.42				SU			02/04/21 12:30	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWC-17

Lab Sample ID: 180-116916-11

Date Collected: 02/04/21 13:45

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.064	J	0.10	0.026	mg/L			02/11/21 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 13:29	1
Arsenic	0.00035	J	0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 13:29	1
Barium	0.012		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 13:29	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 13:29	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 13:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 13:29	1
Cobalt	0.00042	J	0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 13:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 13:29	1
Lithium	0.0047	J	0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 13:29	1
Molybdenum	0.0025	J	0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 13:29	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 13:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 13:29	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 07:00	02/18/21 11:49	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.31				SU			02/04/21 13:45	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: FB-1

Lab Sample ID: 180-116916-12

Date Collected: 02/04/21 14:15

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.028	J	0.10	0.026	mg/L			02/11/21 17:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 13:33	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 13:33	1
Barium	<0.0016		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 13:33	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 13:33	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 13:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 13:33	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 13:33	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 13:33	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 13:33	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 13:33	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 13:33	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 13:33	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 07:00	02/18/21 11:50	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: EB-2

Lab Sample ID: 180-116916-13

Date Collected: 02/04/21 14:30

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.10	0.026	mg/L			02/11/21 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 13:36	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 13:36	1
Barium	<0.0016		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 13:36	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 13:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 13:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 13:36	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 13:36	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 13:36	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 13:36	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 13:36	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 13:36	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 13:36	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 07:00	02/18/21 11:51	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-116916-14

Date Collected: 02/04/21 14:12

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.91		0.10	0.026	mg/L			02/13/21 01:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00041	J	0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 13:40	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 13:40	1
Barium	0.0016	J	0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 13:40	1
Beryllium	0.00039	J	0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 13:40	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 13:40	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 13:40	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 13:40	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 13:40	1
Lithium	0.035		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 13:40	1
Molybdenum	0.0030	J	0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 13:40	1
Selenium	0.0030	J	0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 13:40	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 13:40	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 06:58	02/12/21 10:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.22				SU			02/04/21 14:12	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWC-10

Lab Sample ID: 180-116916-15

Date Collected: 02/04/21 15:50

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.12		0.10	0.026	mg/L			02/11/21 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 13:44	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 13:44	1
Barium	0.035		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 13:44	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 13:44	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 13:44	1
Chromium	0.0018	J	0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 13:44	1
Cobalt	0.00059	J	0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 13:44	1
Lead	0.00019	J	0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 13:44	1
Lithium	0.0049	J	0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 13:44	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 13:44	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 13:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 13:44	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 06:58	02/12/21 10:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.21				SU			02/04/21 15:50	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWC-13

Lab Sample ID: 180-116916-16

Date Collected: 02/04/21 11:15

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.16		0.10	0.026	mg/L			02/13/21 00:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 13:47	1
Arsenic	0.00038	J	0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 13:47	1
Barium	0.047		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 13:47	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 13:47	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 13:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 13:47	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 13:47	1
Lead	0.00038	J	0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 13:47	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 13:47	1
Molybdenum	0.0012	J	0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 13:47	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 13:47	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 13:47	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 06:58	02/12/21 10:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.34				SU			02/04/21 11:15	1

Client Sample Results

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

Job ID: 180-116807-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-116916-17

Date Collected: 02/04/21 12:40

Matrix: Water

Date Received: 02/06/21 10:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.033	J	0.10	0.026	mg/L			02/11/21 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 13:58	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 13:58	1
Barium	0.029		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 13:58	1
Beryllium	0.00026	J	0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 13:58	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 13:58	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 13:58	1
Cobalt	0.0041		0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 13:58	1
Lead	0.00013	J	0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 13:58	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 13:58	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 13:58	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 13:58	1
Thallium	0.00021	J	0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 13:58	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 06:58	02/12/21 10:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.76				SU			02/04/21 12:40	1

QC Sample Results

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

Job ID: 180-116807-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-345752/6
Matrix: Water
Analysis Batch: 345752

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			02/06/21 11:55	1

Lab Sample ID: LCS 180-345752/5
Matrix: Water
Analysis Batch: 345752

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	2.74		mg/L		110	90 - 110

Lab Sample ID: 180-116807-8 MS
Matrix: Water
Analysis Batch: 345752

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		2.50	2.65		mg/L		106	90 - 110

Lab Sample ID: 180-116807-8 MSD
Matrix: Water
Analysis Batch: 345752

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		2.50	2.68		mg/L		107	90 - 110	1	20

Lab Sample ID: MB 180-346231/48
Matrix: Water
Analysis Batch: 346231

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			02/11/21 18:35	1

Lab Sample ID: MB 180-346231/6
Matrix: Water
Analysis Batch: 346231

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			02/11/21 07:29	1

Lab Sample ID: LCS 180-346231/49
Matrix: Water
Analysis Batch: 346231

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		101	90 - 110

Lab Sample ID: LCS 180-346231/5
Matrix: Water
Analysis Batch: 346231

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	2.48		mg/L		99	90 - 110

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QC Sample Results

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

Job ID: 180-116807-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 180-116916-17 MS
Matrix: Water
Analysis Batch: 346231

Client Sample ID: WGWC-14A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.033	J	2.50	2.59		mg/L		102	90 - 110

Lab Sample ID: 180-116916-17 MSD
Matrix: Water
Analysis Batch: 346231

Client Sample ID: WGWC-14A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.033	J	2.50	2.65		mg/L		105	90 - 110	2	20

Lab Sample ID: MB 180-346367/6
Matrix: Water
Analysis Batch: 346367

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			02/12/21 08:02	1

Lab Sample ID: LCS 180-346367/5
Matrix: Water
Analysis Batch: 346367

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: 180-116916-16 MS
Matrix: Water
Analysis Batch: 346367

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
Fluoride	0.16		2.50	2.60		mg/L		98	90 - 110

Lab Sample ID: 180-116916-16 MSD
Matrix: Water
Analysis Batch: 346367

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
Fluoride	0.16		2.50	2.55		mg/L		95	90 - 110	2	20

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

Lab Sample ID: MB 180-346412/1-A
Matrix: Water
Analysis Batch: 346771

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 346412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		02/12/21 11:15	02/13/21 11:40	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/12/21 11:15	02/13/21 11:40	1
Barium	<0.0016		0.010	0.0016	mg/L		02/12/21 11:15	02/13/21 11:40	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/12/21 11:15	02/13/21 11:40	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/12/21 11:15	02/13/21 11:40	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/12/21 11:15	02/13/21 11:40	1

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QC Sample Results

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

Job ID: 180-116807-1

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

Lab Sample ID: MB 180-346412/1-A
Matrix: Water
Analysis Batch: 346771

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 346412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/12/21 11:15	02/13/21 11:40	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/12/21 11:15	02/13/21 11:40	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/12/21 11:15	02/13/21 11:40	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/12/21 11:15	02/13/21 11:40	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/12/21 11:15	02/13/21 11:40	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/12/21 11:15	02/13/21 11:40	1

Lab Sample ID: LCS 180-346412/2-A
Matrix: Water
Analysis Batch: 346771

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 346412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.235		mg/L		94	80 - 120
Arsenic	1.00	0.950		mg/L		95	80 - 120
Barium	1.00	0.990		mg/L		99	80 - 120
Beryllium	0.500	0.521		mg/L		104	80 - 120
Cadmium	0.500	0.492		mg/L		98	80 - 120
Chromium	0.500	0.502		mg/L		100	80 - 120
Cobalt	0.500	0.478		mg/L		96	80 - 120
Lead	0.500	0.489		mg/L		98	80 - 120
Lithium	0.500	0.483		mg/L		97	80 - 120
Molybdenum	0.500	0.495		mg/L		99	80 - 120
Selenium	1.00	0.976		mg/L		98	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: 180-116807-3 MS
Matrix: Water
Analysis Batch: 346771

Client Sample ID: WGWA-1
Prep Type: Total Recoverable
Prep Batch: 346412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.00062	J	0.250	0.239		mg/L		95	75 - 125
Arsenic	<0.00031		1.00	0.956		mg/L		96	75 - 125
Barium	0.050		1.00	1.05		mg/L		100	75 - 125
Beryllium	<0.00018		0.500	0.527		mg/L		105	75 - 125
Cadmium	<0.00022		0.500	0.501		mg/L		100	75 - 125
Chromium	<0.0015		0.500	0.500		mg/L		100	75 - 125
Cobalt	0.00082	J	0.500	0.485		mg/L		97	75 - 125
Lead	0.00015	J	0.500	0.496		mg/L		99	75 - 125
Lithium	<0.0034		0.500	0.489		mg/L		98	75 - 125
Molybdenum	<0.00061		0.500	0.499		mg/L		100	75 - 125
Selenium	<0.0015		1.00	0.981		mg/L		98	75 - 125
Thallium	<0.00015		1.00	1.03		mg/L		103	75 - 125

Lab Sample ID: 180-116807-3 MSD
Matrix: Water
Analysis Batch: 346771

Client Sample ID: WGWA-1
Prep Type: Total Recoverable
Prep Batch: 346412

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.00062	J	0.250	0.238		mg/L		95	75 - 125	0	20

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QC Sample Results

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

Job ID: 180-116807-1

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

Lab Sample ID: 180-116807-3 MSD

Matrix: Water

Analysis Batch: 346771

Client Sample ID: WGWA-1

Prep Type: Total Recoverable

Prep Batch: 346412

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Arsenic	<0.00031		1.00	0.955		mg/L		96	75 - 125	0	20
Barium	0.050		1.00	1.06		mg/L		101	75 - 125	1	20
Beryllium	<0.00018		0.500	0.529		mg/L		106	75 - 125	1	20
Cadmium	<0.00022		0.500	0.501		mg/L		100	75 - 125	0	20
Chromium	<0.0015		0.500	0.500		mg/L		100	75 - 125	0	20
Cobalt	0.00082	J	0.500	0.481		mg/L		96	75 - 125	1	20
Lead	0.00015	J	0.500	0.493		mg/L		99	75 - 125	1	20
Lithium	<0.0034		0.500	0.488		mg/L		98	75 - 125	0	20
Molybdenum	<0.00061		0.500	0.496		mg/L		99	75 - 125	0	20
Selenium	<0.0015		1.00	0.974		mg/L		97	75 - 125	1	20
Thallium	<0.00015		1.00	1.03		mg/L		103	75 - 125	0	20

Lab Sample ID: MB 180-346791/1-A

Matrix: Water

Analysis Batch: 347044

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 346791

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00038		0.0020	0.00038	mg/L		02/17/21 07:39	02/18/21 12:17	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		02/17/21 07:39	02/18/21 12:17	1
Barium	<0.0016		0.010	0.0016	mg/L		02/17/21 07:39	02/18/21 12:17	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		02/17/21 07:39	02/18/21 12:17	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		02/17/21 07:39	02/18/21 12:17	1
Chromium	<0.0015		0.0020	0.0015	mg/L		02/17/21 07:39	02/18/21 12:17	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		02/17/21 07:39	02/18/21 12:17	1
Lead	<0.00013		0.0010	0.00013	mg/L		02/17/21 07:39	02/18/21 12:17	1
Lithium	<0.0034		0.0050	0.0034	mg/L		02/17/21 07:39	02/18/21 12:17	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		02/17/21 07:39	02/18/21 12:17	1
Selenium	<0.0015		0.0050	0.0015	mg/L		02/17/21 07:39	02/18/21 12:17	1
Thallium	<0.00015		0.0010	0.00015	mg/L		02/17/21 07:39	02/18/21 12:17	1

Lab Sample ID: LCS 180-346791/2-A

Matrix: Water

Analysis Batch: 347044

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 346791

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Antimony	0.250	0.245		mg/L		98	80 - 120
Arsenic	1.00	0.989		mg/L		99	80 - 120
Barium	1.00	1.05		mg/L		105	80 - 120
Beryllium	0.500	0.494		mg/L		99	80 - 120
Cadmium	0.500	0.519		mg/L		104	80 - 120
Chromium	0.500	0.508		mg/L		102	80 - 120
Cobalt	0.500	0.501		mg/L		100	80 - 120
Lead	0.500	0.508		mg/L		102	80 - 120
Lithium	0.500	0.498		mg/L		100	80 - 120
Molybdenum	0.500	0.515		mg/L		103	80 - 120
Selenium	1.00	1.04		mg/L		104	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120

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QC Sample Results

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

Job ID: 180-116807-1

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

Lab Sample ID: 180-116916-3 MS
Matrix: Water
Analysis Batch: 347044

Client Sample ID: WGWA-6
Prep Type: Total Recoverable
Prep Batch: 346791

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	%Rec. Limits
Antimony	<0.00038		0.250	0.245		mg/L		98	75 - 125	
Arsenic	<0.00031		1.00	0.964		mg/L		96	75 - 125	
Barium	0.0079	J	1.00	1.04		mg/L		104	75 - 125	
Beryllium	<0.00018		0.500	0.489		mg/L		98	75 - 125	
Cadmium	<0.00022		0.500	0.519		mg/L		104	75 - 125	
Chromium	<0.0015		0.500	0.501		mg/L		100	75 - 125	
Cobalt	<0.00013		0.500	0.484		mg/L		97	75 - 125	
Lead	<0.00013		0.500	0.499		mg/L		100	75 - 125	
Lithium	0.0047	J	0.500	0.492		mg/L		97	75 - 125	
Molybdenum	<0.00061		0.500	0.504		mg/L		101	75 - 125	
Selenium	<0.0015		1.00	1.03		mg/L		103	75 - 125	
Thallium	<0.00015		1.00	1.03		mg/L		103	75 - 125	

Lab Sample ID: 180-116916-3 MSD
Matrix: Water
Analysis Batch: 347044

Client Sample ID: WGWA-6
Prep Type: Total Recoverable
Prep Batch: 346791

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Antimony	<0.00038		0.250	0.242		mg/L		97	75 - 125	1	20
Arsenic	<0.00031		1.00	0.957		mg/L		96	75 - 125	1	20
Barium	0.0079	J	1.00	1.03		mg/L		103	75 - 125	1	20
Beryllium	<0.00018		0.500	0.472		mg/L		94	75 - 125	4	20
Cadmium	<0.00022		0.500	0.512		mg/L		102	75 - 125	1	20
Chromium	<0.0015		0.500	0.501		mg/L		100	75 - 125	0	20
Cobalt	<0.00013		0.500	0.482		mg/L		96	75 - 125	0	20
Lead	<0.00013		0.500	0.494		mg/L		99	75 - 125	1	20
Lithium	0.0047	J	0.500	0.480		mg/L		95	75 - 125	2	20
Molybdenum	<0.00061		0.500	0.500		mg/L		100	75 - 125	1	20
Selenium	<0.0015		1.00	1.01		mg/L		101	75 - 125	2	20
Thallium	<0.00015		1.00	1.02		mg/L		102	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-345897/1-A
Matrix: Water
Analysis Batch: 346160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 345897

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/09/21 06:53	02/10/21 11:43	1

Lab Sample ID: LCS 180-345897/2-A
Matrix: Water
Analysis Batch: 346160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 345897

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.50	2.57		ug/L		103	80 - 120

QC Sample Results

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

Job ID: 180-116807-1

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

Lab Sample ID: 180-116807-1 MS
Matrix: Water
Analysis Batch: 346160

Client Sample ID: Dup-1
Prep Type: Total/NA
Prep Batch: 345897
 %Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.13		1.00	1.01		ug/L		101	75 - 125

Lab Sample ID: 180-116807-1 MSD
Matrix: Water
Analysis Batch: 346160

Client Sample ID: Dup-1
Prep Type: Total/NA
Prep Batch: 345897
 %Rec. RPD

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.13		1.00	1.02		ug/L		102	75 - 125	0	20

Lab Sample ID: MB 180-346076/1-A
Matrix: Water
Analysis Batch: 346421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 346076

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 06:58	02/12/21 10:38	1

Lab Sample ID: LCS 180-346076/2-A
Matrix: Water
Analysis Batch: 346421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 346076
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.50	2.55		ug/L		102	80 - 120

Lab Sample ID: MB 180-346077/1-A
Matrix: Water
Analysis Batch: 347002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 346077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		02/10/21 07:00	02/18/21 11:31	1

Lab Sample ID: LCS 180-346077/2-A
Matrix: Water
Analysis Batch: 347002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 346077
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.50	2.50		ug/L		100	80 - 120

QC Association Summary

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

Job ID: 180-116807-1

HPLC/IC

Analysis Batch: 345752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116807-1	Dup-1	Total/NA	Water	300.0	
180-116807-2	EB-1	Total/NA	Water	300.0	
180-116807-3	WGWA-1	Total/NA	Water	300.0	
180-116807-4	WGWA-2	Total/NA	Water	300.0	
180-116807-5	WGWA-18	Total/NA	Water	300.0	
180-116807-6	WGWA-3	Total/NA	Water	300.0	
180-116807-7	WGWA-4	Total/NA	Water	300.0	
180-116807-8	WGWA-7	Total/NA	Water	300.0	
MB 180-345752/6	Method Blank	Total/NA	Water	300.0	
LCS 180-345752/5	Lab Control Sample	Total/NA	Water	300.0	
180-116807-8 MS	WGWA-7	Total/NA	Water	300.0	
180-116807-8 MSD	WGWA-7	Total/NA	Water	300.0	

Analysis Batch: 346231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116916-2	FB-2	Total/NA	Water	300.0	
180-116916-6	WGWC-11	Total/NA	Water	300.0	
180-116916-11	WGWC-17	Total/NA	Water	300.0	
180-116916-12	FB-1	Total/NA	Water	300.0	
180-116916-13	EB-2	Total/NA	Water	300.0	
180-116916-15	WGWC-10	Total/NA	Water	300.0	
180-116916-17	WGWC-14A	Total/NA	Water	300.0	
MB 180-346231/48	Method Blank	Total/NA	Water	300.0	
MB 180-346231/6	Method Blank	Total/NA	Water	300.0	
LCS 180-346231/49	Lab Control Sample	Total/NA	Water	300.0	
LCS 180-346231/5	Lab Control Sample	Total/NA	Water	300.0	
180-116916-17 MS	WGWC-14A	Total/NA	Water	300.0	
180-116916-17 MSD	WGWC-14A	Total/NA	Water	300.0	

Analysis Batch: 346367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116916-1	Dup-2	Total/NA	Water	300.0	
180-116916-3	WGWA-6	Total/NA	Water	300.0	
180-116916-4	WGWA-5	Total/NA	Water	300.0	
180-116916-5	WGWC-19	Total/NA	Water	300.0	
180-116916-7	WGWC-12	Total/NA	Water	300.0	
180-116916-8	WGWC-8	Total/NA	Water	300.0	
180-116916-9	WGWC-15	Total/NA	Water	300.0	
180-116916-10	WGWC-16	Total/NA	Water	300.0	
180-116916-14	WGWC-9	Total/NA	Water	300.0	
180-116916-16	WGWC-13	Total/NA	Water	300.0	
MB 180-346367/6	Method Blank	Total/NA	Water	300.0	
LCS 180-346367/5	Lab Control Sample	Total/NA	Water	300.0	
180-116916-16 MS	WGWC-13	Total/NA	Water	300.0	
180-116916-16 MSD	WGWC-13	Total/NA	Water	300.0	

Metals

Prep Batch: 345897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116807-1	Dup-1	Total/NA	Water	7470A	

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QC Association Summary

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

Job ID: 180-116807-1

Metals (Continued)

Prep Batch: 345897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116807-2	EB-1	Total/NA	Water	7470A	
180-116807-3	WGWA-1	Total/NA	Water	7470A	
180-116807-4	WGWA-2	Total/NA	Water	7470A	
180-116807-5	WGWA-18	Total/NA	Water	7470A	
180-116807-6	WGWA-3	Total/NA	Water	7470A	
180-116807-7	WGWA-4	Total/NA	Water	7470A	
180-116807-8	WGWA-7	Total/NA	Water	7470A	
MB 180-345897/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-345897/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-116807-1 MS	Dup-1	Total/NA	Water	7470A	
180-116807-1 MSD	Dup-1	Total/NA	Water	7470A	

Prep Batch: 346076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116916-14	WGWC-9	Total/NA	Water	7470A	
180-116916-15	WGWC-10	Total/NA	Water	7470A	
180-116916-16	WGWC-13	Total/NA	Water	7470A	
180-116916-17	WGWC-14A	Total/NA	Water	7470A	
MB 180-346076/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-346076/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 346077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116916-1	Dup-2	Total/NA	Water	7470A	
180-116916-2	FB-2	Total/NA	Water	7470A	
180-116916-3	WGWA-6	Total/NA	Water	7470A	
180-116916-4	WGWA-5	Total/NA	Water	7470A	
180-116916-5	WGWC-19	Total/NA	Water	7470A	
180-116916-6	WGWC-11	Total/NA	Water	7470A	
180-116916-7	WGWC-12	Total/NA	Water	7470A	
180-116916-8	WGWC-8	Total/NA	Water	7470A	
180-116916-9	WGWC-15	Total/NA	Water	7470A	
180-116916-10	WGWC-16	Total/NA	Water	7470A	
180-116916-11	WGWC-17	Total/NA	Water	7470A	
180-116916-12	FB-1	Total/NA	Water	7470A	
180-116916-13	EB-2	Total/NA	Water	7470A	
MB 180-346077/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-346077/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 346160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116807-1	Dup-1	Total/NA	Water	EPA 7470A	345897
180-116807-2	EB-1	Total/NA	Water	EPA 7470A	345897
180-116807-3	WGWA-1	Total/NA	Water	EPA 7470A	345897
180-116807-4	WGWA-2	Total/NA	Water	EPA 7470A	345897
180-116807-5	WGWA-18	Total/NA	Water	EPA 7470A	345897
180-116807-6	WGWA-3	Total/NA	Water	EPA 7470A	345897
180-116807-7	WGWA-4	Total/NA	Water	EPA 7470A	345897
180-116807-8	WGWA-7	Total/NA	Water	EPA 7470A	345897
MB 180-345897/1-A	Method Blank	Total/NA	Water	EPA 7470A	345897
LCS 180-345897/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	345897

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QC Association Summary

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

Job ID: 180-116807-1

Metals (Continued)

Analysis Batch: 346160 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116807-1 MS	Dup-1	Total/NA	Water	EPA 7470A	345897
180-116807-1 MSD	Dup-1	Total/NA	Water	EPA 7470A	345897

Prep Batch: 346412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116807-1	Dup-1	Total Recoverable	Water	3005A	
180-116807-2	EB-1	Total Recoverable	Water	3005A	
180-116807-3	WGWA-1	Total Recoverable	Water	3005A	
180-116807-4	WGWA-2	Total Recoverable	Water	3005A	
180-116807-5	WGWA-18	Total Recoverable	Water	3005A	
180-116807-6	WGWA-3	Total Recoverable	Water	3005A	
180-116807-7	WGWA-4	Total Recoverable	Water	3005A	
180-116807-8	WGWA-7	Total Recoverable	Water	3005A	
MB 180-346412/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-346412/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-116807-3 MS	WGWA-1	Total Recoverable	Water	3005A	
180-116807-3 MSD	WGWA-1	Total Recoverable	Water	3005A	

Analysis Batch: 346421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116916-14	WGWC-9	Total/NA	Water	EPA 7470A	346076
180-116916-15	WGWC-10	Total/NA	Water	EPA 7470A	346076
180-116916-16	WGWC-13	Total/NA	Water	EPA 7470A	346076
180-116916-17	WGWC-14A	Total/NA	Water	EPA 7470A	346076
MB 180-346076/1-A	Method Blank	Total/NA	Water	EPA 7470A	346076
LCS 180-346076/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	346076

Analysis Batch: 346771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116807-1	Dup-1	Total Recoverable	Water	EPA 6020B	346412
180-116807-2	EB-1	Total Recoverable	Water	EPA 6020B	346412
180-116807-3	WGWA-1	Total Recoverable	Water	EPA 6020B	346412
180-116807-4	WGWA-2	Total Recoverable	Water	EPA 6020B	346412
180-116807-5	WGWA-18	Total Recoverable	Water	EPA 6020B	346412
180-116807-6	WGWA-3	Total Recoverable	Water	EPA 6020B	346412
180-116807-7	WGWA-4	Total Recoverable	Water	EPA 6020B	346412
180-116807-8	WGWA-7	Total Recoverable	Water	EPA 6020B	346412
MB 180-346412/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	346412
LCS 180-346412/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	346412
180-116807-3 MS	WGWA-1	Total Recoverable	Water	EPA 6020B	346412
180-116807-3 MSD	WGWA-1	Total Recoverable	Water	EPA 6020B	346412

Prep Batch: 346791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116916-1	Dup-2	Total Recoverable	Water	3005A	
180-116916-2	FB-2	Total Recoverable	Water	3005A	
180-116916-3	WGWA-6	Total Recoverable	Water	3005A	
180-116916-4	WGWA-5	Total Recoverable	Water	3005A	
180-116916-5	WGWC-19	Total Recoverable	Water	3005A	
180-116916-6	WGWC-11	Total Recoverable	Water	3005A	
180-116916-7	WGWC-12	Total Recoverable	Water	3005A	

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QC Association Summary

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

Job ID: 180-116807-1

Metals (Continued)

Prep Batch: 346791 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116916-8	WGWC-8	Total Recoverable	Water	3005A	
180-116916-9	WGWC-15	Total Recoverable	Water	3005A	
180-116916-10	WGWC-16	Total Recoverable	Water	3005A	
180-116916-11	WGWC-17	Total Recoverable	Water	3005A	
180-116916-12	FB-1	Total Recoverable	Water	3005A	
180-116916-13	EB-2	Total Recoverable	Water	3005A	
180-116916-14	WGWC-9	Total Recoverable	Water	3005A	
180-116916-15	WGWC-10	Total Recoverable	Water	3005A	
180-116916-16	WGWC-13	Total Recoverable	Water	3005A	
180-116916-17	WGWC-14A	Total Recoverable	Water	3005A	
MB 180-346791/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-346791/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-116916-3 MS	WGWA-6	Total Recoverable	Water	3005A	
180-116916-3 MSD	WGWA-6	Total Recoverable	Water	3005A	

Analysis Batch: 347002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116916-1	Dup-2	Total/NA	Water	EPA 7470A	346077
180-116916-2	FB-2	Total/NA	Water	EPA 7470A	346077
180-116916-3	WGWA-6	Total/NA	Water	EPA 7470A	346077
180-116916-4	WGWA-5	Total/NA	Water	EPA 7470A	346077
180-116916-5	WGWC-19	Total/NA	Water	EPA 7470A	346077
180-116916-6	WGWC-11	Total/NA	Water	EPA 7470A	346077
180-116916-7	WGWC-12	Total/NA	Water	EPA 7470A	346077
180-116916-8	WGWC-8	Total/NA	Water	EPA 7470A	346077
180-116916-9	WGWC-15	Total/NA	Water	EPA 7470A	346077
180-116916-10	WGWC-16	Total/NA	Water	EPA 7470A	346077
180-116916-11	WGWC-17	Total/NA	Water	EPA 7470A	346077
180-116916-12	FB-1	Total/NA	Water	EPA 7470A	346077
180-116916-13	EB-2	Total/NA	Water	EPA 7470A	346077
MB 180-346077/1-A	Method Blank	Total/NA	Water	EPA 7470A	346077
LCS 180-346077/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	346077

Analysis Batch: 347044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116916-1	Dup-2	Total Recoverable	Water	EPA 6020B	346791
180-116916-2	FB-2	Total Recoverable	Water	EPA 6020B	346791
180-116916-3	WGWA-6	Total Recoverable	Water	EPA 6020B	346791
180-116916-4	WGWA-5	Total Recoverable	Water	EPA 6020B	346791
180-116916-5	WGWC-19	Total Recoverable	Water	EPA 6020B	346791
180-116916-6	WGWC-11	Total Recoverable	Water	EPA 6020B	346791
180-116916-7	WGWC-12	Total Recoverable	Water	EPA 6020B	346791
180-116916-8	WGWC-8	Total Recoverable	Water	EPA 6020B	346791
180-116916-9	WGWC-15	Total Recoverable	Water	EPA 6020B	346791
180-116916-10	WGWC-16	Total Recoverable	Water	EPA 6020B	346791
180-116916-11	WGWC-17	Total Recoverable	Water	EPA 6020B	346791
180-116916-12	FB-1	Total Recoverable	Water	EPA 6020B	346791
180-116916-13	EB-2	Total Recoverable	Water	EPA 6020B	346791
180-116916-14	WGWC-9	Total Recoverable	Water	EPA 6020B	346791
180-116916-15	WGWC-10	Total Recoverable	Water	EPA 6020B	346791
180-116916-16	WGWC-13	Total Recoverable	Water	EPA 6020B	346791

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QC Association Summary

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

Job ID: 180-116807-1

Metals (Continued)

Analysis Batch: 347044 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116916-17	WGWC-14A	Total Recoverable	Water	EPA 6020B	346791
MB 180-346791/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	346791
LCS 180-346791/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	346791
180-116916-3 MS	WGWA-6	Total Recoverable	Water	EPA 6020B	346791
180-116916-3 MSD	WGWA-6	Total Recoverable	Water	EPA 6020B	346791

Field Service / Mobile Lab

Analysis Batch: 346556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116807-3	WGWA-1	Total/NA	Water	Field Sampling	
180-116807-4	WGWA-2	Total/NA	Water	Field Sampling	
180-116807-5	WGWA-18	Total/NA	Water	Field Sampling	
180-116807-6	WGWA-3	Total/NA	Water	Field Sampling	
180-116807-7	WGWA-4	Total/NA	Water	Field Sampling	
180-116807-8	WGWA-7	Total/NA	Water	Field Sampling	
180-116916-3	WGWA-6	Total/NA	Water	Field Sampling	
180-116916-4	WGWA-5	Total/NA	Water	Field Sampling	
180-116916-5	WGWC-19	Total/NA	Water	Field Sampling	
180-116916-6	WGWC-11	Total/NA	Water	Field Sampling	
180-116916-7	WGWC-12	Total/NA	Water	Field Sampling	
180-116916-8	WGWC-8	Total/NA	Water	Field Sampling	
180-116916-9	WGWC-15	Total/NA	Water	Field Sampling	
180-116916-10	WGWC-16	Total/NA	Water	Field Sampling	
180-116916-11	WGWC-17	Total/NA	Water	Field Sampling	
180-116916-14	WGWC-9	Total/NA	Water	Field Sampling	
180-116916-15	WGWC-10	Total/NA	Water	Field Sampling	
180-116916-16	WGWC-13	Total/NA	Water	Field Sampling	
180-116916-17	WGWC-14A	Total/NA	Water	Field Sampling	

Chain of Custody Record



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: <i>O. Figueroa, H. Auld</i> Lab PM: Brown, Shali Phone: 770-594-5998 E-Mail: shali.brown@eurofins.com		Carrier Tracking No(s): COC No: Page: 1 of Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS-10382606 WO #:		Analysis Requested: App. IV Metals (Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl) Fluoride (EPA 300.0) Radium 226 & 228 (SW-846 9315/9320)		Preservation Codes: 'Hexane Jne sNaO2 a2O4S a2SO3 2SO4 3P Dodecahydrate cetone JCAA W - pH 4-5 Z - other (specify)	
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) Particulate Matter (Yes or No)		Total Number of containers Special Instructions/Note: App 4 Scan Event	
Sample Identification DUP-1 EB-1 NGWA-1 NGWA-2 NGWA-18 NGWA-3 NGWA-4 NGWA-7		Preservation Code: G G G G G G G G		pH: NA NA 5.36 6.10 6.48 5.78 6.61 5.84	
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:					
Relinquished by: <i>[Signature]</i> Date/Time: 2/13/21 13:34 Company: ACE		Relinquished by: <i>[Signature]</i> Date/Time: 2/13/21 16:00 Company: EPA		Relinquished by: <i>[Signature]</i> Date/Time: 2/13/21 13:34 Company: EPA	
Custody Seal No.: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:			



1 & 2

Client Information		Sampler: <u>O. FUQUEA, H. AVID</u>		Lab PM: <u>Brown, Shali</u>		Carrier Tracking No(s):		COC No:				
Client Contact: <u>SCS Contacts</u>		Phone: <u>(770) 594-5948</u>		E-Mail: <u>shali.brown@euofinset.com</u>				Page:				
Company: <u>GA Power</u>								Job #:				
Address: <u>241 Ralph McGill Blvd SE</u>		Due Date Requested:		Analysis Requested				Preservation Codes:				
City: <u>Atlanta</u>		TAT Requested (days):						M - Hexane A - HCL N - None O - AsNaO2 P - Na2O4S ... SO3 203 204 Iodidehydrate ine A -5 (specify)				
State, Zip: <u>GA, 30308</u>		PO #: <u>404-506-7116(Tel)</u>		Perform MSMSD (Yes or No)		Radium 226 & 228 (SW-846 9315/9320)		Barcode				
Phone: <u>404-506-7116(Tel)</u>		WO #: <u>SCS10382606</u>		Field Filtered Sample (Yes or No)		Fluoride (EPA 300.0)		180-116916 Chain of Custody				
Email: <u>SCS Contacts</u>		Project #: <u>18019922</u>		App. IV Metals (Sb,As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)								
Site: <u>CCR - Plant Wansley Ash Pond</u>		SSOW#:										
Sample Identification	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 MSMSD (Yes or No)	App. IV Metals (Sb,As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Fluoride (EPA 300.0)	Radium 226 & 228 (SW-846 9315/9320)	Total Number of	Special Instructions/Note: App 4 Scan Event	Form
<u>DUP-2</u>	<u>2-4-21</u>	<u>1320</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH=</u>	
<u>FIED of 2-4-21 FB-2</u>	<u>2-4-21</u>	<u>1320</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH=</u>	
<u>WGWA-6</u>	<u>2-3-21</u>	<u>1030</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 7.76</u>	
<u>WGWA-5</u>	<u>2-3-21</u>	<u>1325</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 5.30</u>	
<u>WGWC-19</u>	<u>1-3-21</u>	<u>1430</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 6.75</u>	
<u>WGWC-11</u>	<u>2-3-21</u>	<u>1435</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 5.21</u>	
<u>WGWC-12</u>	<u>2-3-21</u>	<u>1325</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 6.15</u>	
<u>WGWC-8</u>	<u>2-3-21</u>	<u>1545</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 5.08</u>	
<u>WGWC-15</u>	<u>2-4-21</u>	<u>1105</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 7.77</u>	
<u>WGWC-16</u>	<u>2-4-21</u>	<u>1230</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 5.42</u>	
<u>WGWC-17</u>	<u>2-4-21</u>	<u>1345</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 6.31</u>	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input checked="" 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 checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Special Instructions/QC Requirements:												
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date: <u>2/5/21</u> 10:20 Company: <u>AEC</u> Relinquished by: _____ Date: <u>16w</u> Company: <u>RT</u> Relinquished by: _____ Date: _____ Company: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No												
Cooler Temperature(s) °C and Other Remarks:												

244-ATLANTA



Chain of Custody Record



2 of 2

Client Information		Sampler: <u>O. F. Quica, H. Auld</u>	Lab PM: <u>Brown, Shali</u>	Carrier Tracking No(s):	COC No.:								
Client Contact: SCS Contacts		Phone: <u>(770) 594-5998</u>	E-Mail: <u>shali.brown@eurolfinset.com</u>		Page:								
Company: GA Power					Job #:								
Address: 241 Ralph McGill Blvd SE		Analysis Requested App. IV Metals (Sb,As,Ba,Be,Cd,Cr,Co,Pb,LI,Hg,Mo,Se,Tl) Fluoride (EPA 300.0) Radium 226 & 228 (SW-846 9315/9320)											
City: Atlanta													
State, Zip: GA, 30308													
Phone: 404-506-7116(Tel)													
Email: SCS Contacts													
Project Name: CCR - Plant Wansley Ash Pond		Due Date Requested:		Total Number of Containers									
Site: SOW#:		TAT Requested (days):		Special Instructions/Note: Full									
Project #: 18019922		PO #: SCS10382606		App. IV Metals (Sb,As,Ba,Be,Cd,Cr,Co,Pb,LI,Hg,Mo,Se,Tl)									
Site: SOW#:		WO #:		Fluoride (EPA 300.0)									
Sample Identification		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)	Period MS/MSD (Yes or No)	App. IV Metals (Sb,As,Ba,Be,Cd,Cr,Co,Pb,LI,Hg,Mo,Se,Tl)	Fluoride (EPA 300.0)	Radium 226 & 228 (SW-846 9315/9320)	Analysis Requested	Preservation Codes:	Special Instructions/Note:
FB-1		2-4-21	1415	G	Water	N	N	✓	✓	✓		A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify)	App 4 Scan Event
FB-2		2-4-21	1430	G	Water	N	N	✓	✓	✓			pH=
WGWC-9		2-4-21	1412	G	Water	N	N	✓	✓	✓			pH= 6.22
WGWC-10		2-4-21	1550	G	Water	N	N	✓	✓	✓			pH= 6.21
WGWC-13		2-4-21	1115	G	Water	N	N	✓	✓	✓			pH= 6.34
WGWC-14A		2-4-21	1240	G	Water	N	N	✓	✓	✓			pH= 5.70
				G	Water								pH=
				G	Water								pH=
				G	Water								pH=
				G	Water								pH=
				G	Water								pH=
Possible Hazard Identification		Date:		Time:		Method of Shipment:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Special Instructions/QC Requirements:		Total Number of Containers	
<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		Date: 2/5/21		Time: 10:20		Method of Shipment:		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Total Number of Containers	
Deliverable Requested: I, II, III, IV, Other (specify)		Date: 2/5/21		Time: 10:20		Method of Shipment:		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Total Number of Containers	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Total Number of Containers	
Relinquished by: <u>[Signature]</u>		Date: 2/5/21		Time: 10:20		Method of Shipment:		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Total Number of Containers	
Relinquished by: <u>[Signature]</u>		Date: 2/5/21		Time: 10:20		Method of Shipment:		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Total Number of Containers	
Relinquished by: <u>[Signature]</u>		Date: 2/5/21		Time: 10:20		Method of Shipment:		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Total Number of Containers	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Date: 2/5/21		Time: 10:20		Method of Shipment:		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Total Number of Containers	
Custody Seal No.:		Date: 2/5/21		Time: 10:20		Method of Shipment:		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Total Number of Containers	
Cooler Temperature(s) °C and Other Remarks:		Date: 2/5/21		Time: 10:20		Method of Shipment:		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Total Number of Containers	





eurofins

RT 97
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Part # 199469-434 RT2 EXP 11/21

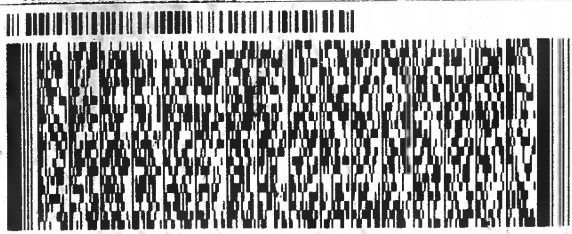
ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 03FEB21
ACTWGT: 59.85 LB
CAD: 859116/CAFE3406

BILL RECIPIENT

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

(412) 963-7068
REF: ACC - WANSLEY



1 of 2
TRK# 1516 9327 9371
0201
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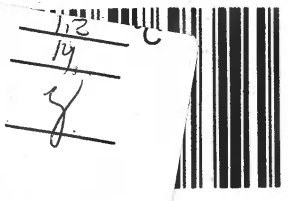
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STANDARD OVERNIGHT

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15238
PA-US PIT

Uncorrected temp
Thermometer ID

CF 0 Initials
PT-WI-SR-001 effective 11/8/18





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1/6:30
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ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 03FEB21
ACTWGT: 59.85 LB
CAD: 859116/CAFE3406

BILL RECEIPT

TO SAMPLE RECEIVING

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

(412) 863-7058

REF: ACC - WANSLEY



FedEx
Express



AD109019110601

2 of 2
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0263
Mstr# 1516 9327 9371

THU - 04 FEB 4:30P
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Thermometer ID

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



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SDR



ORIGIN ID: L1YA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

SHIP DATE: 05FEB21
 ACTWGT: 66.70 LB
 CAD: 859116/CAFE3406

BILL RECIPIENT

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



4 of 4
MPS# 1516 9328 0066
MsTr# 1516 9328 0033
XO AGCA
SATURDAY 12:00P
PRIORITY OVERNIGHT
15238
PA-US PIT

Uncorrected temp
 Thermometer ID
 CF Initials
 28 / 14 °C
 PT-WI-SR-001 effective 11/8/18

Environment Testing
 TestAmerica



ORIGIN ID: L1YA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
 (412) 963-7066
 REF: ACCC - WANSLEY



1 of 4
TRK# 1516 9328 0033
MASTER
XO AGCA
SATURDAY 12:00P
PRIORITY OVERNIGHT
15238
PA-US PIT

Uncorrected temp
 Thermometer ID
 CF Initials
 31 / 14 °C
 PT-WI-SR-001 effective 11/8/18



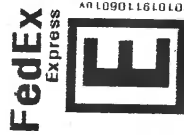
Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES

TO SAMPLE RECEIVING

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

(412) 963-7068
REF: ACCC - WANSLEY



2 of 4
SATURDAY 12:00P
PRIORITY OVERNIGHT

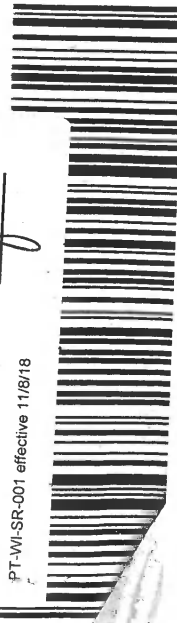
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Mstr# 1516 9328 0033

XI Uncorrected temp
Thermometer ID

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15238
PA-US
PIT

CF Initials

PT-WI-SR-001 effective 11/6/18



Part # 159469-434 RIT2 EXP 11/21



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES

TO SAMPLE RECEIVING

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

(412) 963-7068
REF: ACCC - WANSLEY



3 of 4
SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# 1516 9328 0055
0263
Mstr# 1516 9328 0033

XO AGGA
Uncorrected temp

2.1
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15238
PA-US
PIT

Thermometer ID

CF Initials

PT-WI-SR-001 effective 11/6/18



Part # 159469-434 RIT2 EXP 11/21

RT 639

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-116807-1

Login Number: 116807

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	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-116807-1

Login Number: 116916

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.	False	
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: 180-116807-2

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:
3/8/2021 6:58:06 AM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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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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Case Narrative

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

Job ID: 180-116807-2

Job ID: 180-116807-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-116807-2**

Comments

No additional comments.

Receipt

The samples were received on 2/4/2021 9:30 AM and 2/6/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.2° C, 2.1° C, 2.5° C, 2.6° C, 2.8° C and 3.1° C.

Receipt Exceptions

The container labels for the two plastic liters for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWC-12 (180-116916-7). The container labels list a sample collection date of 2/2/21, while the COC lists 2/3/21. The date on the COC was used.

The container label for one out of two of the plastic liters for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWC-17 (180-116916-11). The container labels list a sample collection date of 3/2/21 while the COC lists 2/4/21. The date on the COC was used.

RAD

Methods 903.0, 9315: Radium-226 prep batch 160-498078:

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 (180-116807-1), EB-1 (180-116807-2), WGWA-1 (180-116807-3), WGWA-2 (180-116807-4), WGWA-18 (180-116807-5), WGWA-3 (180-116807-6), WGWA-4 (180-116807-7), WGWA-7 (180-116807-8), (LCS 160-498078/1-A), (MB 160-498078/22-A) and (160-41173-M-1-A)

Methods 903.0, 9315: Radium-226 batch 498288

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 (180-116916-1), FB-2 (180-116916-2), WGWA-6 (180-116916-3), WGWA-5 (180-116916-4), WGWC-19 (180-116916-5), WGWC-11 (180-116916-6), WGWC-12 (180-116916-7), WGWC-8 (180-116916-8), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10), WGWC-17 (180-116916-11), FB-1 (180-116916-12), EB-2 (180-116916-13), WGWC-9 (180-116916-14), WGWC-10 (180-116916-15), WGWC-13 (180-116916-16), WGWC-14A (180-116916-17), (LCS 160-498288/1-A), (LCSD 160-498288/2-A) and (MB 160-498288/23-A)

Methods 904.0, 9320: 904/9320 Prep Batch: 160-498366

The LCS recovered at (132%) for Ra228. The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (61-138) per method requirements. Although there is a qualifier, the LCS passes. No further action is required (LCSD 160-498366/2-A)

Methods 904.0, 9320: 904/9320 Prep Batch 160-498366

The Ra228 laboratory control sample(LCS) recovery (168%) associated with the following sample(s) is outside the upper QC limit of (61-138) indicating a potential positive bias for that analyte. This analyte was not observed above the RL in the associated samples; therefore the sample data is not adversely affected by this excursion. The data have been reported with this narrative. (LCS 160-498366/1-A)

Methods 904.0, 9320: 904/9320 Prep batch 498366

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

Case Narrative

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

Job ID: 180-116807-2

Job ID: 180-116807-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

applied as the Activity Reference Date. Dup-2 (180-116916-1), WGWC-19 (180-116916-5), WGWC-11 (180-116916-6), WGWC-12 (180-116916-7), WGWC-17 (180-116916-11), FB-1 (180-116916-12), EB-2 (180-116916-13), WGWC-10 (180-116916-15), WGWC-13 (180-116916-16), WGWC-14A (180-116916-17), (LCS 160-498366/1-A), (LCSD 160-498366/2-A) and (MB 160-498366/23-A)

Methods 904.0, 9320: Ra228 Prep Batch 160-498080

The Ra228 laboratory control sample (LCS) recovery (154%) associated with the following sample(s) is outside the upper QC limit of (61-138) 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. (LCS 160-498080/1-A)

Methods 904.0, 9320: 9320/904 prep batch 498080

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 (180-116807-1), EB-1 (180-116807-2), WGWA-1 (180-116807-3), WGWA-2 (180-116807-4), WGWA-18 (180-116807-5), WGWA-3 (180-116807-6), WGWA-4 (180-116807-7), WGWA-7 (180-116807-8), (LCS 160-498080/1-A), (MB 160-498080/22-A), (160-41173-M-1-C) and (160-41173-J-1-B MS)

Method 9320: Radium-228 batch 160-499478

The laboratory control sample (LCS) associated with the following samples in Radium-226 batch 160-499478 recovered at 135% for radium-228: FB-2 (180-116916-2), WGWA-6 (180-116916-3), WGWA-5 (180-116916-4), WGWC-8 (180-116916-8), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10), WGWC-9 (180-116916-14), (LCS 160-499478/1-A), (LCSD 160-499478/2-A) and (MB 160-499478/10-A). The limits in our LIMS system, at 75-125%, reflect the requirements of a regulatory agency that represents a large amount of our work. However, the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of 61-138%, per method requirements. Although there is a qualifier, the LCS passes. No further action is required.

Method 9320: Radium-228 batch 499478

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. FB-2 (180-116916-2), WGWA-6 (180-116916-3), WGWA-5 (180-116916-4), WGWC-8 (180-116916-8), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10) and WGWC-9 (180-116916-14)

Method PrecSep_0: Radium 228 Prep Batch 160-498080:

The following samples were prepared at a reduced aliquot: WGWA-1 (180-116807-3), WGWA-3 (180-116807-6), WGWA-4 (180-116807-7) and WGWA-7 (180-116807-8). Samples 160-41173-1, -1MS, -1MSD, -2, -3, and -4 contained yellow discoloration and a cloudy appearance. Samples 180-116807-3, 500-194559-11, and 500-194630-17 contained noticeable sediment levels. Samples 180-116807-6, -7, -8, -12, and -16 reduced to insure sufficient volume remains if needed for analysis.

Method PrecSep_0: Radium 228 Prep Batch 160-498366:

Insufficient sample volume was available to perform a sample duplicate for the following samples: Dup-2 (180-116916-1), FB-2 (180-116916-2), WGWA-6 (180-116916-3), WGWC-19 (180-116916-5), WGWC-11 (180-116916-6), WGWC-12 (180-116916-7), WGWC-8 (180-116916-8), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10), FB-1 (180-116916-12), EB-2 (180-116916-13), WGWC-9 (180-116916-14), WGWC-10 (180-116916-15), WGWC-13 (180-116916-16) and WGWC-14A (180-116916-17). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-498366:

The following samples were prepared at a reduced aliquot: WGWA-5 (180-116916-4) and WGWC-17 (180-116916-11). Samples 660-107806-1 and 660-107807-1 were reduced to insure sufficient volume remains if needed for analysis.

Sample 180-116916-4 contained a light brown discoloration. Sample 180-116916-11 contained a noticeable sediment level. Sample 310-20012-1 contained a yellow discoloration. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-498080:

During the in growth process, the following samples needed to be filtered due to sediment present in the sample. This being an indicator of matrix interference.

Case Narrative

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

Job ID: 180-116807-2

Job ID: 180-116807-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Method PrecSep_0: Radium 228 Prep Batch 160-498366:

During the in growth process, the following samples needed to be filtered due to sediment present in the sample. This being an indicator of matrix interference. WGWA-5 (180-116916-4), WGWC-11 (180-116916-6), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10), WGWC-10 (180-116916-15) and WGWC-13 (180-116916-16).

Method PrecSep_0: Radium 228 Prep Batch 160-499478:

Insufficient sample volume was available to perform a sample duplicate for the following samples: FB-2 (180-116916-2), WGWA-6 (180-116916-3), WGWA-5 (180-116916-4), WGWC-8 (180-116916-8), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10) and WGWC-9 (180-116916-14). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-499478:

The following sample(s) were prepared at a reduced aliquot due to re-analysis of the sample(s): FB-2 (180-116916-2), WGWA-6 (180-116916-3), WGWA-5 (180-116916-4), WGWC-8 (180-116916-8), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10) and WGWC-9 (180-116916-14).

Method PrecSep-21: Radium 226 Prep Batch 160-498078:

The following samples were prepared at a reduced aliquot: WGWA-1 (180-116807-3), WGWA-3 (180-116807-6), WGWA-4 (180-116807-7) and WGWA-7 (180-116807-8). Samples 160-41173-1, -1MS, -1MSD, -2, -3, and -4 contained yellow discoloration and a cloudy appearance. Samples 180-116807-3, 500-194559-11, and 500-194630-17 contained noticeable sediment levels.

Samples 180-116807-6, -7, -8, -12, and -16 reduced to insure sufficient volume remains if needed for analysis.

Method PrecSep-21: Radium 226 Prep Batch 160-498288:

Insufficient sample volume was available to perform a sample duplicate for the following samples: Dup-2 (180-116916-1), FB-2 (180-116916-2), WGWA-6 (180-116916-3), WGWC-19 (180-116916-5), WGWC-11 (180-116916-6), WGWC-12 (180-116916-7), WGWC-8 (180-116916-8), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10), FB-1 (180-116916-12), EB-2 (180-116916-13), WGWC-9 (180-116916-14), WGWC-10 (180-116916-15), WGWC-13 (180-116916-16) and WGWC-14A (180-116916-17). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-498288:

The following samples were prepared at a reduced aliquot: WGWA-5 (180-116916-4) and WGWC-17 (180-116916-11). Samples 660-107806-1 and 660-107807-1 were reduced to insure sufficient volume remains if needed for analysis.

Sample 180-116916-4 contained a light brown discoloration. Sample 180-116916-11 contained a noticeable sediment level. Sample 310-20012-1 contained a yellow discoloration. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-498078:

During the in growth process, the following samples needed to be filtered due to sediment present in the sample. This being an indicator of matrix interference.

Method PrecSep-21: Radium 226 Prep Batch 160-498288:

During the in growth process, the following samples needed to be filtered due to sediment present in the sample. This being an indicator of matrix interference. WGWA-5 (180-116916-4), WGWC-11 (180-116916-6), WGWC-15 (180-116916-9), WGWC-16 (180-116916-10), WGWC-10 (180-116916-15) and WGWC-13 (180-116916-16).

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: 180-116807-2

Qualifiers

Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: 180-116807-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-21
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21
Kentucky (DW)	State	KY90125	01-01-22
Louisiana	NELAP	04080	06-30-21
Louisiana (DW)	State	LA011	12-31-21
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	03-01-22
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: 180-116807-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-116807-1	Dup-1	Water	02/02/21 00:00	02/04/21 09:30	
180-116807-2	EB-1	Water	02/02/21 14:45	02/04/21 09:30	
180-116807-3	WGWA-1	Water	02/02/21 11:15	02/04/21 09:30	
180-116807-4	WGWA-2	Water	02/02/21 12:20	02/04/21 09:30	
180-116807-5	WGWA-18	Water	02/02/21 14:50	02/04/21 09:30	
180-116807-6	WGWA-3	Water	02/02/21 11:45	02/04/21 09:30	
180-116807-7	WGWA-4	Water	02/02/21 12:50	02/04/21 09:30	
180-116807-8	WGWA-7	Water	02/02/21 14:10	02/04/21 09:30	
180-116916-1	Dup-2	Water	02/04/21 00:00	02/06/21 10:00	
180-116916-2	FB-2	Water	02/04/21 13:20	02/06/21 10:00	
180-116916-3	WGWA-6	Water	02/03/21 10:30	02/06/21 10:00	
180-116916-4	WGWA-5	Water	02/03/21 13:25	02/06/21 10:00	
180-116916-5	WGWC-19	Water	02/03/21 14:30	02/06/21 10:00	
180-116916-6	WGWC-11	Water	02/03/21 14:35	02/06/21 10:00	
180-116916-7	WGWC-12	Water	02/03/21 13:25	02/06/21 10:00	
180-116916-8	WGWC-8	Water	02/03/21 15:45	02/06/21 10:00	
180-116916-9	WGWC-15	Water	02/04/21 11:05	02/06/21 10:00	
180-116916-10	WGWC-16	Water	02/04/21 12:30	02/06/21 10:00	
180-116916-11	WGWC-17	Water	02/04/21 13:45	02/06/21 10:00	
180-116916-12	FB-1	Water	02/04/21 14:15	02/06/21 10:00	
180-116916-13	EB-2	Water	02/04/21 14:30	02/06/21 10:00	
180-116916-14	WGWC-9	Water	02/04/21 14:12	02/06/21 10:00	
180-116916-15	WGWC-10	Water	02/04/21 15:50	02/06/21 10:00	
180-116916-16	WGWC-13	Water	02/04/21 11:15	02/06/21 10:00	
180-116916-17	WGWC-14A	Water	02/04/21 12:40	02/06/21 10:00	

Method Summary

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

Job ID: 180-116807-2

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: 180-116807-2

Client Sample ID: Dup-1
Date Collected: 02/02/21 00:00
Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.77 mL	1.0 g	498078	02/08/21 13:30	KMP	TAL SL
Total/NA	Analysis	9315		1			500594	03/03/21 18:21	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.77 mL	1.0 g	498080	02/08/21 14:04	KMP	TAL SL
Total/NA	Analysis	9320		1			498746	02/12/21 08:57	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500924	03/05/21 17:18	CMM	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1
Date Collected: 02/02/21 14:45
Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.43 mL	1.0 g	498078	02/08/21 13:30	KMP	TAL SL
Total/NA	Analysis	9315		1			500594	03/03/21 18:21	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.43 mL	1.0 g	498080	02/08/21 14:04	KMP	TAL SL
Total/NA	Analysis	9320		1			498746	02/12/21 08:57	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500924	03/05/21 17:18	CMM	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-1
Date Collected: 02/02/21 11:15
Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			749.54 mL	1.0 g	498078	02/08/21 13:30	KMP	TAL SL
Total/NA	Analysis	9315		1			500594	03/03/21 18:21	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			749.54 mL	1.0 g	498080	02/08/21 14:04	KMP	TAL SL
Total/NA	Analysis	9320		1			498746	02/12/21 08:58	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500924	03/05/21 17:18	CMM	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-2
Date Collected: 02/02/21 12:20
Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.43 mL	1.0 g	498078	02/08/21 13:30	KMP	TAL SL
Total/NA	Analysis	9315		1			500594	03/03/21 18:21	ANW	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

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

Job ID: 180-116807-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-116807-4

Date Collected: 02/02/21 12:20

Matrix: Water

Date Received: 02/04/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			999.43 mL	1.0 g	498080	02/08/21 14:04	KMP	TAL SL
Total/NA	Analysis	9320		1			498746	02/12/21 08:58	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500924	03/05/21 17:18	CMM	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-18

Lab Sample ID: 180-116807-5

Date Collected: 02/02/21 14:50

Matrix: Water

Date Received: 02/04/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.76 mL	1.0 g	498078	02/08/21 13:30	KMP	TAL SL
Total/NA	Analysis	9315		1			500594	03/03/21 18:21	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.76 mL	1.0 g	498080	02/08/21 14:04	KMP	TAL SL
Total/NA	Analysis	9320		1			498746	02/12/21 08:58	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500924	03/05/21 17:18	CMM	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3

Lab Sample ID: 180-116807-6

Date Collected: 02/02/21 11:45

Matrix: Water

Date Received: 02/04/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.82 mL	1.0 g	498078	02/08/21 13:30	KMP	TAL SL
Total/NA	Analysis	9315		1			500594	03/03/21 18:21	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.82 mL	1.0 g	498080	02/08/21 14:04	KMP	TAL SL
Total/NA	Analysis	9320		1			498746	02/12/21 08:58	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500924	03/05/21 17:18	CMM	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-4

Lab Sample ID: 180-116807-7

Date Collected: 02/02/21 12:50

Matrix: Water

Date Received: 02/04/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			750.14 mL	1.0 g	498078	02/08/21 13:30	KMP	TAL SL
Total/NA	Analysis	9315		1			500594	03/03/21 18:21	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.14 mL	1.0 g	498080	02/08/21 14:04	KMP	TAL SL
Total/NA	Analysis	9320		1			498746	02/12/21 08:58	FLC	TAL SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

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

Job ID: 180-116807-2

Client Sample ID: WGWA-4

Lab Sample ID: 180-116807-7

Date Collected: 02/02/21 12:50

Matrix: Water

Date Received: 02/04/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			500924	03/05/21 17:18	CMM	TAL SL

Client Sample ID: WGWA-7

Lab Sample ID: 180-116807-8

Date Collected: 02/02/21 14:10

Matrix: Water

Date Received: 02/04/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			749.62 mL	1.0 g	498078	02/08/21 13:30	KMP	TAL SL
Total/NA	Analysis	9315		1			500594	03/03/21 18:21	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			749.62 mL	1.0 g	498080	02/08/21 14:04	KMP	TAL SL
Total/NA	Analysis	9320		1			498746	02/12/21 08:59	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500924	03/05/21 17:18	CMM	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: Dup-2

Lab Sample ID: 180-116916-1

Date Collected: 02/04/21 00:00

Matrix: Water

Date Received: 02/06/21 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			999.93 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:00	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.93 mL	1.0 g	498366	02/10/21 11:03	KMP	TAL SL
Total/NA	Analysis	9320		1			498986	02/17/21 08:48	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-2

Lab Sample ID: 180-116916-2

Date Collected: 02/04/21 13:20

Matrix: Water

Date Received: 02/06/21 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			1000.16 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:00	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.01 mL	1.0 g	499478	02/22/21 15:37	JEC	TAL SL
Total/NA	Analysis	9320		1			500441	03/02/21 08:54	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-116807-2

Client Sample ID: WGWA-6

Lab Sample ID: 180-116916-3

Date Collected: 02/03/21 10:30

Matrix: Water

Date Received: 02/06/21 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			1000.04 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:00	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.64 mL	1.0 g	499478	02/22/21 15:37	JEC	TAL SL
Total/NA	Analysis	9320		1			500441	03/02/21 08:54	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 180-116916-4

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 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			750.49 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:01	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			749.99 mL	1.0 g	499478	02/22/21 15:37	JEC	TAL SL
Total/NA	Analysis	9320		1			500441	03/02/21 08:54	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-19

Lab Sample ID: 180-116916-5

Date Collected: 02/03/21 14:30

Matrix: Water

Date Received: 02/06/21 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			1000.46 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:01	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.46 mL	1.0 g	498366	02/10/21 11:03	KMP	TAL SL
Total/NA	Analysis	9320		1			498986	02/17/21 08:49	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-11

Lab Sample ID: 180-116916-6

Date Collected: 02/03/21 14:35

Matrix: Water

Date Received: 02/06/21 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			999.72 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:01	ANW	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

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

Job ID: 180-116807-2

Client Sample ID: WGWC-11

Lab Sample ID: 180-116916-6

Date Collected: 02/03/21 14:35

Matrix: Water

Date Received: 02/06/21 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			999.72 mL	1.0 g	498366	02/10/21 11:03	KMP	TAL SL
Total/NA	Analysis	9320		1			498986	02/17/21 08:49	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-12

Lab Sample ID: 180-116916-7

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 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			1000.33 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:03	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.33 mL	1.0 g	498366	02/10/21 11:03	KMP	TAL SL
Total/NA	Analysis	9320		1			498986	02/17/21 08:49	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8

Lab Sample ID: 180-116916-8

Date Collected: 02/03/21 15:45

Matrix: Water

Date Received: 02/06/21 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			1000.41 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:03	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.34 mL	1.0 g	499478	02/22/21 15:37	JEC	TAL SL
Total/NA	Analysis	9320		1			500441	03/02/21 08:55	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Lab Sample ID: 180-116916-9

Date Collected: 02/04/21 11:05

Matrix: Water

Date Received: 02/06/21 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			999.78 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:03	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.43 mL	1.0 g	499478	02/22/21 15:37	JEC	TAL SL
Total/NA	Analysis	9320		1			500441	03/02/21 08:55	ANW	TAL SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

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

Job ID: 180-116807-2

Client Sample ID: WGWC-15

Lab Sample ID: 180-116916-9

Date Collected: 02/04/21 11:05

Matrix: Water

Date Received: 02/06/21 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	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL

Client Sample ID: WGWC-16

Lab Sample ID: 180-116916-10

Date Collected: 02/04/21 12:30

Matrix: Water

Date Received: 02/06/21 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			999.76 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:04	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.02 mL	1.0 g	499478	02/22/21 15:37	JEC	TAL SL
Total/NA	Analysis	9320		1			500441	03/02/21 08:55	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-17

Lab Sample ID: 180-116916-11

Date Collected: 02/04/21 13:45

Matrix: Water

Date Received: 02/06/21 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			749.62 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:04	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			749.62 mL	1.0 g	498366	02/10/21 11:03	KMP	TAL SL
Total/NA	Analysis	9320		1			498986	02/17/21 08:50	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-1

Lab Sample ID: 180-116916-12

Date Collected: 02/04/21 14:15

Matrix: Water

Date Received: 02/06/21 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			999.34 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:04	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.34 mL	1.0 g	498366	02/10/21 11:03	KMP	TAL SL
Total/NA	Analysis	9320		1			498986	02/17/21 08:50	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-116807-2

Client Sample ID: EB-2

Lab Sample ID: 180-116916-13

Date Collected: 02/04/21 14:30

Matrix: Water

Date Received: 02/06/21 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			1000.44 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:04	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.44 mL	1.0 g	498366	02/10/21 11:03	KMP	TAL SL
Total/NA	Analysis	9320		1			498986	02/17/21 08:50	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-9

Lab Sample ID: 180-116916-14

Date Collected: 02/04/21 14:12

Matrix: Water

Date Received: 02/06/21 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			1000.16 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:04	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.09 mL	1.0 g	499478	02/22/21 15:37	JEC	TAL SL
Total/NA	Analysis	9320		1			500441	03/02/21 08:55	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10

Lab Sample ID: 180-116916-15

Date Collected: 02/04/21 15:50

Matrix: Water

Date Received: 02/06/21 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			999.78 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:06	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.78 mL	1.0 g	498366	02/10/21 11:03	KMP	TAL SL
Total/NA	Analysis	9320		1			498986	02/17/21 08:50	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-13

Lab Sample ID: 180-116916-16

Date Collected: 02/04/21 11:15

Matrix: Water

Date Received: 02/06/21 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			999.85 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:06	ANW	TAL SL
Instrument ID: GFPCRED										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-116807-2

Client Sample ID: WGWC-13

Date Collected: 02/04/21 11:15

Date Received: 02/06/21 10:00

Lab Sample ID: 180-116916-16

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_0			999.85 mL	1.0 g	498366	02/10/21 11:03	KMP	TAL SL
Total/NA	Analysis	9320		1			498986	02/17/21 08:50	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-14A

Date Collected: 02/04/21 12:40

Date Received: 02/06/21 10:00

Lab Sample ID: 180-116916-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.27 mL	1.0 g	498288	02/10/21 10:22	KMP	TAL SL
Total/NA	Analysis	9315		1			500880	03/04/21 15:06	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.27 mL	1.0 g	498366	02/10/21 11:03	KMP	TAL SL
Total/NA	Analysis	9320		1			498987	02/17/21 08:52	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			500928	03/05/21 22:06	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

JEC = Julia Crossen

KMP = Karen Phillips

Batch Type: Analysis

ANW = Amber Woods

CMM = Chelsea Mazariegos

FLC = Fernando Cruz

SCB = Sarah Bernsen

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: Dup-1
Date Collected: 02/02/21 00:00
Date Received: 02/04/21 09:30

Lab Sample ID: 180-116807-1
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	0.0469	U	0.0537	0.0539	1.00	0.0863	pCi/L	02/08/21 13:30	03/03/21 18:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					02/08/21 13:30	03/03/21 18:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0314	U *	0.224	0.224	1.00	0.409	pCi/L	02/08/21 14:04	02/12/21 08:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					02/08/21 14:04	02/12/21 08:57	1
Y Carrier	87.9		40 - 110					02/08/21 14:04	02/12/21 08:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0155	U	0.230	0.230	5.00	0.409	pCi/L		03/05/21 17:18	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: EB-1

Lab Sample ID: 180-116807-2

Date Collected: 02/02/21 14:45

Matrix: Water

Date Received: 02/04/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0339	U	0.0306	0.0308	1.00	0.0921	pCi/L	02/08/21 13:30	03/03/21 18:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					02/08/21 13:30	03/03/21 18:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.100	U *	0.269	0.269	1.00	0.464	pCi/L	02/08/21 14:04	02/12/21 08:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					02/08/21 14:04	02/12/21 08:57	1
Y Carrier	87.9		40 - 110					02/08/21 14:04	02/12/21 08:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0665	U	0.271	0.271	5.00	0.464	pCi/L		03/05/21 17:18	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-116807-3

Date Collected: 02/02/21 11:15

Matrix: Water

Date Received: 02/04/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0169	U	0.0906	0.0906	1.00	0.173	pCi/L	02/08/21 13:30	03/03/21 18:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					02/08/21 13:30	03/03/21 18:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.226	U *	0.370	0.370	1.00	0.624	pCi/L	02/08/21 14:04	02/12/21 08:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					02/08/21 14:04	02/12/21 08:58	1
Y Carrier	84.5		40 - 110					02/08/21 14:04	02/12/21 08:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.243	U	0.381	0.381	5.00	0.624	pCi/L		03/05/21 17:18	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-116807-4

Date Collected: 02/02/21 12:20

Matrix: Water

Date Received: 02/04/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00770	U	0.0485	0.0485	1.00	0.0970	pCi/L	02/08/21 13:30	03/03/21 18:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		40 - 110					02/08/21 13:30	03/03/21 18:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.194	U *	0.266	0.267	1.00	0.444	pCi/L	02/08/21 14:04	02/12/21 08:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		40 - 110					02/08/21 14:04	02/12/21 08:58	1
Y Carrier	86.7		40 - 110					02/08/21 14:04	02/12/21 08:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.202	U	0.270	0.271	5.00	0.444	pCi/L		03/05/21 17:18	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWA-18

Lab Sample ID: 180-116807-5

Date Collected: 02/02/21 14:50

Matrix: Water

Date Received: 02/04/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0378	U	0.0687	0.0688	1.00	0.121	pCi/L	02/08/21 13:30	03/03/21 18:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					02/08/21 13:30	03/03/21 18:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.316	U *	0.259	0.261	1.00	0.412	pCi/L	02/08/21 14:04	02/12/21 08:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					02/08/21 14:04	02/12/21 08:58	1
Y Carrier	92.7		40 - 110					02/08/21 14:04	02/12/21 08:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.354	U	0.268	0.270	5.00	0.412	pCi/L		03/05/21 17:18	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWA-3

Lab Sample ID: 180-116807-6

Date Collected: 02/02/21 11:45

Matrix: Water

Date Received: 02/04/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0212	U	0.0768	0.0768	1.00	0.145	pCi/L	02/08/21 13:30	03/03/21 18:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					02/08/21 13:30	03/03/21 18:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.161	U *	0.370	0.370	1.00	0.633	pCi/L	02/08/21 14:04	02/12/21 08:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					02/08/21 14:04	02/12/21 08:58	1
Y Carrier	84.9		40 - 110					02/08/21 14:04	02/12/21 08:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.182	U	0.378	0.378	5.00	0.633	pCi/L		03/05/21 17:18	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWA-4

Lab Sample ID: 180-116807-7

Date Collected: 02/02/21 12:50

Matrix: Water

Date Received: 02/04/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.525		0.159	0.166	1.00	0.147	pCi/L	02/08/21 13:30	03/03/21 18:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.7		40 - 110					02/08/21 13:30	03/03/21 18:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.526	U *	0.383	0.386	1.00	0.602	pCi/L	02/08/21 14:04	02/12/21 08:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.7		40 - 110					02/08/21 14:04	02/12/21 08:58	1
Y Carrier	94.2		40 - 110					02/08/21 14:04	02/12/21 08:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.05		0.415	0.420	5.00	0.602	pCi/L		03/05/21 17:18	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-116807-8

Date Collected: 02/02/21 14:10

Matrix: Water

Date Received: 02/04/21 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0658	U	0.0912	0.0914	1.00	0.154	pCi/L	02/08/21 13:30	03/03/21 18:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		40 - 110					02/08/21 13:30	03/03/21 18:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.101	U *	0.281	0.281	1.00	0.492	pCi/L	02/08/21 14:04	02/12/21 08:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		40 - 110					02/08/21 14:04	02/12/21 08:59	1
Y Carrier	90.5		40 - 110					02/08/21 14:04	02/12/21 08:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.167	U	0.295	0.295	5.00	0.492	pCi/L		03/05/21 17:18	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: Dup-2
 Date Collected: 02/04/21 00:00
 Date Received: 02/06/21 10:00

Lab Sample ID: 180-116916-1
 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	0.0814		0.0585	0.0590	1.00	0.0777	pCi/L	02/10/21 10:22	03/04/21 15:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		40 - 110					02/10/21 10:22	03/04/21 15:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.771	*	0.302	0.310	1.00	0.424	pCi/L	02/10/21 11:03	02/17/21 08:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		40 - 110					02/10/21 11:03	02/17/21 08:48	1
Y Carrier	87.1		40 - 110					02/10/21 11:03	02/17/21 08:48	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	0.852		0.308	0.316	5.00	0.424	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: FB-2

Lab Sample ID: 180-116916-2

Date Collected: 02/04/21 13:20

Matrix: Water

Date Received: 02/06/21 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	0.0267	U	0.0530	0.0530	1.00	0.0955	pCi/L	02/10/21 10:22	03/04/21 15:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					02/10/21 10:22	03/04/21 15:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.151	U *	0.326	0.327	1.00	0.609	pCi/L	02/22/21 15:37	03/02/21 08:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					02/22/21 15:37	03/02/21 08:54	1
Y Carrier	84.1		40 - 110					02/22/21 15:37	03/02/21 08:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.125	U	0.330	0.331	5.00	0.609	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWA-6

Lab Sample ID: 180-116916-3

Date Collected: 02/03/21 10:30

Matrix: Water

Date Received: 02/06/21 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	3.36		0.302	0.428	1.00	0.111	pCi/L	02/10/21 10:22	03/04/21 15:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					02/10/21 10:22	03/04/21 15:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.63	*	0.763	0.977	1.00	0.641	pCi/L	02/22/21 15:37	03/02/21 08:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.9		40 - 110					02/22/21 15:37	03/02/21 08:54	1
Y Carrier	84.1		40 - 110					02/22/21 15:37	03/02/21 08:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	9.99		0.821	1.07	5.00	0.641	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWA-5

Lab Sample ID: 180-116916-4

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 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	0.0438	U	0.0687	0.0688	1.00	0.119	pCi/L	02/10/21 10:22	03/04/21 15:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		40 - 110					02/10/21 10:22	03/04/21 15:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.358	U	0.286	0.288	1.00	0.592	pCi/L	02/22/21 15:37	03/02/21 08:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		40 - 110					02/22/21 15:37	03/02/21 08:54	1
Y Carrier	77.8		40 - 110					02/22/21 15:37	03/02/21 08:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.314	U	0.294	0.296	5.00	0.592	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWC-19

Lab Sample ID: 180-116916-5

Date Collected: 02/03/21 14:30

Matrix: Water

Date Received: 02/06/21 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	0.0453	U	0.0565	0.0567	1.00	0.0934	pCi/L	02/10/21 10:22	03/04/21 15:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					02/10/21 10:22	03/04/21 15:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.639	*	0.276	0.282	1.00	0.392	pCi/L	02/10/21 11:03	02/17/21 08:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					02/10/21 11:03	02/17/21 08:49	1
Y Carrier	88.2		40 - 110					02/10/21 11:03	02/17/21 08:49	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	0.684		0.282	0.288	5.00	0.392	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWC-11

Lab Sample ID: 180-116916-6

Date Collected: 02/03/21 14:35

Matrix: Water

Date Received: 02/06/21 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	0.0988	U	0.0755	0.0760	1.00	0.111	pCi/L	02/10/21 10:22	03/04/21 15:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					02/10/21 10:22	03/04/21 15:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.620	*	0.284	0.290	1.00	0.414	pCi/L	02/10/21 11:03	02/17/21 08:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					02/10/21 11:03	02/17/21 08:49	1
Y Carrier	87.9		40 - 110					02/10/21 11:03	02/17/21 08:49	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	0.718		0.294	0.300	5.00	0.414	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWC-12

Lab Sample ID: 180-116916-7

Date Collected: 02/03/21 13:25

Matrix: Water

Date Received: 02/06/21 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	0.193		0.0876	0.0893	1.00	0.0934	pCi/L	02/10/21 10:22	03/04/21 15:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					02/10/21 10:22	03/04/21 15:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.129	U *	0.215	0.215	1.00	0.364	pCi/L	02/10/21 11:03	02/17/21 08:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					02/10/21 11:03	02/17/21 08:49	1
Y Carrier	88.2		40 - 110					02/10/21 11:03	02/17/21 08:49	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	0.322	U	0.232	0.233	5.00	0.364	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWC-8

Lab Sample ID: 180-116916-8

Date Collected: 02/03/21 15:45

Matrix: Water

Date Received: 02/06/21 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	0.578		0.130	0.140	1.00	0.0843	pCi/L	02/10/21 10:22	03/04/21 15:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110					02/10/21 10:22	03/04/21 15:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.42	*	0.449	0.468	1.00	0.586	pCi/L	02/22/21 15:37	03/02/21 08:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.8		40 - 110					02/22/21 15:37	03/02/21 08:55	1
Y Carrier	83.7		40 - 110					02/22/21 15:37	03/02/21 08:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.00		0.467	0.488	5.00	0.586	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWC-15

Lab Sample ID: 180-116916-9

Date Collected: 02/04/21 11:05

Matrix: Water

Date Received: 02/06/21 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	0.0421	U	0.0541	0.0543	1.00	0.0900	pCi/L	02/10/21 10:22	03/04/21 15:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		40 - 110					02/10/21 10:22	03/04/21 15:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.446	U *	0.371	0.373	1.00	0.592	pCi/L	02/22/21 15:37	03/02/21 08:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110					02/22/21 15:37	03/02/21 08:55	1
Y Carrier	85.2		40 - 110					02/22/21 15:37	03/02/21 08:55	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	0.488	U	0.375	0.377	5.00	0.592	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWC-16

Lab Sample ID: 180-116916-10

Date Collected: 02/04/21 12:30

Matrix: Water

Date Received: 02/06/21 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	0.115		0.0638	0.0646	1.00	0.0741	pCi/L	02/10/21 10:22	03/04/21 15:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					02/10/21 10:22	03/04/21 15:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.612	*	0.375	0.380	1.00	0.572	pCi/L	02/22/21 15:37	03/02/21 08:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		40 - 110					02/22/21 15:37	03/02/21 08:55	1
Y Carrier	81.5		40 - 110					02/22/21 15:37	03/02/21 08:55	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	0.727		0.380	0.385	5.00	0.572	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWC-17

Lab Sample ID: 180-116916-11

Date Collected: 02/04/21 13:45

Matrix: Water

Date Received: 02/06/21 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	0.0755	U	0.0686	0.0690	1.00	0.100	pCi/L	02/10/21 10:22	03/04/21 15:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					02/10/21 10:22	03/04/21 15:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.363	U *	0.310	0.312	1.00	0.492	pCi/L	02/10/21 11:03	02/17/21 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					02/10/21 11:03	02/17/21 08:50	1
Y Carrier	86.0		40 - 110					02/10/21 11:03	02/17/21 08:50	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.438	U	0.317	0.320	5.00	0.492	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: FB-1

Lab Sample ID: 180-116916-12

Date Collected: 02/04/21 14:15

Matrix: Water

Date Received: 02/06/21 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	0.0342	U	0.0447	0.0449	1.00	0.0744	pCi/L	02/10/21 10:22	03/04/21 15:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					02/10/21 10:22	03/04/21 15:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0779	U *	0.229	0.229	1.00	0.397	pCi/L	02/10/21 11:03	02/17/21 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					02/10/21 11:03	02/17/21 08:50	1
Y Carrier	85.6		40 - 110					02/10/21 11:03	02/17/21 08:50	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.112	U	0.233	0.233	5.00	0.397	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: EB-2

Lab Sample ID: 180-116916-13

Date Collected: 02/04/21 14:30

Matrix: Water

Date Received: 02/06/21 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	0.00763	U	0.0434	0.0434	1.00	0.0880	pCi/L	02/10/21 10:22	03/04/21 15:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					02/10/21 10:22	03/04/21 15:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00244	U *	0.261	0.261	1.00	0.466	pCi/L	02/10/21 11:03	02/17/21 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					02/10/21 11:03	02/17/21 08:50	1
Y Carrier	84.9		40 - 110					02/10/21 11:03	02/17/21 08:50	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00518	U	0.265	0.265	5.00	0.466	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWC-9

Lab Sample ID: 180-116916-14

Date Collected: 02/04/21 14:12

Matrix: Water

Date Received: 02/06/21 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	0.0495	U	0.0531	0.0533	1.00	0.0838	pCi/L	02/10/21 10:22	03/04/21 15:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		40 - 110					02/10/21 10:22	03/04/21 15:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.303	U *	0.320	0.321	1.00	0.522	pCi/L	02/22/21 15:37	03/02/21 08:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					02/22/21 15:37	03/02/21 08:55	1
Y Carrier	84.5		40 - 110					02/22/21 15:37	03/02/21 08:55	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	0.353	U	0.324	0.325	5.00	0.522	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWC-10

Lab Sample ID: 180-116916-15

Date Collected: 02/04/21 15:50

Matrix: Water

Date Received: 02/06/21 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	0.0799	U	0.0607	0.0612	1.00	0.0856	pCi/L	02/10/21 10:22	03/04/21 15:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		40 - 110					02/10/21 10:22	03/04/21 15:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0467	U *	0.177	0.177	1.00	0.334	pCi/L	02/10/21 11:03	02/17/21 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		40 - 110					02/10/21 11:03	02/17/21 08:50	1
Y Carrier	86.0		40 - 110					02/10/21 11:03	02/17/21 08:50	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0332	U	0.187	0.187	5.00	0.334	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWC-13

Lab Sample ID: 180-116916-16

Date Collected: 02/04/21 11:15

Matrix: Water

Date Received: 02/06/21 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	0.120		0.0721	0.0729	1.00	0.0942	pCi/L	02/10/21 10:22	03/04/21 15:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					02/10/21 10:22	03/04/21 15:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0196	U *	0.178	0.178	1.00	0.322	pCi/L	02/10/21 11:03	02/17/21 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					02/10/21 11:03	02/17/21 08:50	1
Y Carrier	87.1		40 - 110					02/10/21 11:03	02/17/21 08:50	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.139	U	0.192	0.192	5.00	0.322	pCi/L		03/05/21 22:06	1

Client Sample Results

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

Job ID: 180-116807-2

Client Sample ID: WGWC-14A

Lab Sample ID: 180-116916-17

Date Collected: 02/04/21 12:40

Matrix: Water

Date Received: 02/06/21 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	0.366		0.107	0.112	1.00	0.0922	pCi/L	02/10/21 10:22	03/04/21 15:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					02/10/21 10:22	03/04/21 15:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.198	U *	0.223	0.224	1.00	0.366	pCi/L	02/10/21 11:03	02/17/21 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					02/10/21 11:03	02/17/21 08:52	1
Y Carrier	84.1		40 - 110					02/10/21 11:03	02/17/21 08:52	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	0.564		0.247	0.250	5.00	0.366	pCi/L		03/05/21 22:06	1

QC Sample Results

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

Job ID: 180-116807-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-498078/22-A
Matrix: Water
Analysis Batch: 500900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498078

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)				02/08/21 13:30	03/05/21 07:02			
Radium-226	-0.007267	U	0.0634	0.0634	1.00	0.135	pCi/L	02/08/21 13:30	03/05/21 07:02		1	
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac		
Ba Carrier	79.0		40 - 110					02/08/21 13:30	03/05/21 07:02	1		

Lab Sample ID: LCS 160-498078/1-A
Matrix: Water
Analysis Batch: 500594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498078

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
	%Yield	LCS Qualifier	Added	Result	Uncert. (2σ+/-)					75 - 125	
Radium-226			15.1	15.63	1.60	1.00	0.127	pCi/L	103	75 - 125	
Carrier	LCS		Limits								
Ba Carrier	80.8		40 - 110								

Lab Sample ID: MB 160-498288/23-A
Matrix: Water
Analysis Batch: 500900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498288

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)				02/10/21 10:22	03/05/21 07:01			
Radium-226	0.01064	U	0.0480	0.0480	1.00	0.0939	pCi/L	02/10/21 10:22	03/05/21 07:01		1	
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac		
Ba Carrier	85.6		40 - 110					02/10/21 10:22	03/05/21 07:01	1		

Lab Sample ID: LCS 160-498288/1-A
Matrix: Water
Analysis Batch: 500880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498288

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
	%Yield	LCS Qualifier	Added	Result	Uncert. (2σ+/-)					75 - 125	
Radium-226			11.3	11.58	1.18	1.00	0.0816	pCi/L	102	75 - 125	
Carrier	LCS		Limits								
Ba Carrier	88.9		40 - 110								

Lab Sample ID: LCSD 160-498288/2-A
Matrix: Water
Analysis Batch: 500880

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 498288

Analyte	LCSD		Spike	LCSD	Total	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
	%Yield	LCSD Qualifier	Added	Result	Uncert. (2σ+/-)					75 - 125	0.56	1	
Radium-226			11.3	10.32	1.06	1.00	0.0831	pCi/L	91	75 - 125	0.56	1	

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QC Sample Results

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

Job ID: 180-116807-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCSD 160-498288/2-A
Matrix: Water
Analysis Batch: 500880

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 498288

	<i>LCS</i>	<i>D</i>	
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>
Ba Carrier	90.1		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-498080/22-A
Matrix: Water
Analysis Batch: 498749

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498080

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	-0.2234	U	0.342	0.343	1.00	0.649	pCi/L	02/08/21 14:04	02/12/21 09:01	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>		<i>Analyzed</i>	
Ba Carrier	79.0		40 - 110				02/08/21 14:04		02/12/21 09:01	
Y Carrier	88.6		40 - 110				02/08/21 14:04		02/12/21 09:01	

Lab Sample ID: LCS 160-498080/1-A
Matrix: Water
Analysis Batch: 498746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498080

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.	
									Limits	
Radium-228	9.91	15.22	*	1.76	1.00	0.627	pCi/L	154	75 - 125	
<i>Carrier</i>	<i>LCS</i>		<i>LCS</i>							
Ba Carrier	80.8		40 - 110							
Y Carrier	86.7		40 - 110							

Lab Sample ID: MB 160-498366/23-A
Matrix: Water
Analysis Batch: 498987

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498366

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.03713	U	0.254	0.254	1.00	0.448	pCi/L	02/10/21 11:03	02/17/21 08:53	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>		<i>Analyzed</i>	
Ba Carrier	85.6		40 - 110				02/10/21 11:03		02/17/21 08:53	
Y Carrier	84.1		40 - 110				02/10/21 11:03		02/17/21 08:53	

Lab Sample ID: LCS 160-498366/1-A
Matrix: Water
Analysis Batch: 498986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498366

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.	
									Limits	
Radium-228	7.42	12.48	*	1.40	1.00	0.427	pCi/L	168	75 - 125	

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QC Sample Results

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

Job ID: 180-116807-2

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

Lab Sample ID: LCS 160-498366/1-A
Matrix: Water
Analysis Batch: 498986

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498366

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.9		40 - 110
Y Carrier	82.2		40 - 110

Lab Sample ID: LCSD 160-498366/2-A
Matrix: Water
Analysis Batch: 498986

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 498366

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
									75 - 125	1.06	1	
Radium-228	7.42	9.792	*	1.14	1.00	0.414	pCi/L	132	75 - 125	1.06	1	

	LCSD	LCSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.1		40 - 110
Y Carrier	86.0		40 - 110

Lab Sample ID: MB 160-499478/10-A
Matrix: Water
Analysis Batch: 500441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499478

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								02/22/21 15:37	03/02/21 08:55	03/02/21 08:55	08:55	1
Radium-228	0.1595	U	0.321	0.321	1.00	0.549	pCi/L	02/22/21 15:37	03/02/21 08:55	03/02/21 08:55	08:55	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110	02/22/21 15:37	03/02/21 08:55	1
Y Carrier	83.4		40 - 110	02/22/21 15:37	03/02/21 08:55	1

Lab Sample ID: LCS 160-499478/1-A
Matrix: Water
Analysis Batch: 500441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499478

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75 - 125	
Radium-228	9.85	13.28	*	1.56	1.00	0.584	pCi/L	135	75 - 125	

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	86.5		40 - 110
Y Carrier	83.7		40 - 110

Lab Sample ID: LCSD 160-499478/2-A
Matrix: Water
Analysis Batch: 500441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 499478

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
									75 - 125	0.51	1	
Radium-228	9.85	11.75		1.45	1.00	0.632	pCi/L	119	75 - 125	0.51	1	

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QC Sample Results

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

Job ID: 180-116807-2

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

Lab Sample ID: LCSD 160-499478/2-A
Matrix: Water
Analysis Batch: 500441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 499478

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	81.4		40 - 110
Y Carrier	82.2		40 - 110

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QC Association Summary

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

Job ID: 180-116807-2

Rad

Prep Batch: 498078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116807-1	Dup-1	Total/NA	Water	PrecSep-21	
180-116807-2	EB-1	Total/NA	Water	PrecSep-21	
180-116807-3	WGWA-1	Total/NA	Water	PrecSep-21	
180-116807-4	WGWA-2	Total/NA	Water	PrecSep-21	
180-116807-5	WGWA-18	Total/NA	Water	PrecSep-21	
180-116807-6	WGWA-3	Total/NA	Water	PrecSep-21	
180-116807-7	WGWA-4	Total/NA	Water	PrecSep-21	
180-116807-8	WGWA-7	Total/NA	Water	PrecSep-21	
MB 160-498078/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-498078/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 498080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116807-1	Dup-1	Total/NA	Water	PrecSep_0	
180-116807-2	EB-1	Total/NA	Water	PrecSep_0	
180-116807-3	WGWA-1	Total/NA	Water	PrecSep_0	
180-116807-4	WGWA-2	Total/NA	Water	PrecSep_0	
180-116807-5	WGWA-18	Total/NA	Water	PrecSep_0	
180-116807-6	WGWA-3	Total/NA	Water	PrecSep_0	
180-116807-7	WGWA-4	Total/NA	Water	PrecSep_0	
180-116807-8	WGWA-7	Total/NA	Water	PrecSep_0	
MB 160-498080/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-498080/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 498288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116916-1	Dup-2	Total/NA	Water	PrecSep-21	
180-116916-2	FB-2	Total/NA	Water	PrecSep-21	
180-116916-3	WGWA-6	Total/NA	Water	PrecSep-21	
180-116916-4	WGWA-5	Total/NA	Water	PrecSep-21	
180-116916-5	WGWC-19	Total/NA	Water	PrecSep-21	
180-116916-6	WGWC-11	Total/NA	Water	PrecSep-21	
180-116916-7	WGWC-12	Total/NA	Water	PrecSep-21	
180-116916-8	WGWC-8	Total/NA	Water	PrecSep-21	
180-116916-9	WGWC-15	Total/NA	Water	PrecSep-21	
180-116916-10	WGWC-16	Total/NA	Water	PrecSep-21	
180-116916-11	WGWC-17	Total/NA	Water	PrecSep-21	
180-116916-12	FB-1	Total/NA	Water	PrecSep-21	
180-116916-13	EB-2	Total/NA	Water	PrecSep-21	
180-116916-14	WGWC-9	Total/NA	Water	PrecSep-21	
180-116916-15	WGWC-10	Total/NA	Water	PrecSep-21	
180-116916-16	WGWC-13	Total/NA	Water	PrecSep-21	
180-116916-17	WGWC-14A	Total/NA	Water	PrecSep-21	
MB 160-498288/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-498288/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-498288/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 498366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116916-1	Dup-2	Total/NA	Water	PrecSep_0	
180-116916-5	WGWC-19	Total/NA	Water	PrecSep_0	

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QC Association Summary

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

Job ID: 180-116807-2

Rad (Continued)

Prep Batch: 498366 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116916-6	WGWC-11	Total/NA	Water	PrecSep_0	
180-116916-7	WGWC-12	Total/NA	Water	PrecSep_0	
180-116916-11	WGWC-17	Total/NA	Water	PrecSep_0	
180-116916-12	FB-1	Total/NA	Water	PrecSep_0	
180-116916-13	EB-2	Total/NA	Water	PrecSep_0	
180-116916-15	WGWC-10	Total/NA	Water	PrecSep_0	
180-116916-16	WGWC-13	Total/NA	Water	PrecSep_0	
180-116916-17	WGWC-14A	Total/NA	Water	PrecSep_0	
MB 160-498366/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-498366/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-498366/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 499478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-116916-2	FB-2	Total/NA	Water	PrecSep_0	
180-116916-3	WGWA-6	Total/NA	Water	PrecSep_0	
180-116916-4	WGWA-5	Total/NA	Water	PrecSep_0	
180-116916-8	WGWC-8	Total/NA	Water	PrecSep_0	
180-116916-9	WGWC-15	Total/NA	Water	PrecSep_0	
180-116916-10	WGWC-16	Total/NA	Water	PrecSep_0	
180-116916-14	WGWC-9	Total/NA	Water	PrecSep_0	
MB 160-499478/10-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-499478/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-499478/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Chain of Custody Record



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: <i>O. Ferguson, H. Auld</i> Lab PM: Brown, Shali Phone: 770-594-5998 E-Mail: shali.brown@eurofins.com		Carrier Tracking No(s): AIC to A+1		COC No: Page: 1 of Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #:		Analysis Requested: App. IV Metals (Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl) Fluoride (EPA 300.0) Radium 226 & 228 (SW-846 9315/9320)		Preservation Codes: 'hexane Jne sNaO2 a2O4S a2SO3 2SO4 3P Dodecahydrate acetone JCAA W - pH 4-5 Z - other (specify)		Special Instructions/Note: App 4 Scan Event	
Sample Identification 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) Particulate Matter (Yes or No)		Total Number of containers: pH=		Special Instructions/Note: App 4 Scan Event	
DUP-1	2-2-21	-	G	Water	N	4	pH= NA
EB-1	2-2-21	1445	G	Water	N	1	pH= NA
NGWA-1	2-2-21	1115	G	Water	N	4	pH= 5.36
NGWA-2	2-2-21	1220	G	Water	N	4	pH= 6.10
NGWA-18	2-2-21	1450	G	Water	N	4	pH= 6.48
NGWA-3	2-2-21	1145	G	Water	N	4	pH= 5.78
NGWA-4	2-2-21	1250	G	Water	N	4	pH= 6.61
NGWA-7	2-2-21	1410	G	Water	N	4	pH= 5.84
			G	Water			pH=
			G	Water			pH=
			G	Water			pH=

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

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: _____ Date/Time: 2/3/21 13:34 Company: ACE
 Relinquished by: _____ Date/Time: 2/3/21 16:00 Company: EPA
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal No.: _____
 Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks:



1 & 2

Client Information		Sampler: <u>O. FUQUEA, H. AVID</u>		Lab PM: <u>Brown, Shali</u>		Carrier Tracking No(s):		COC No:				
Client Contact: <u>SCS Contacts</u>		Phone: <u>(770) 594-5948</u>		E-Mail: <u>shali.brown@euofinset.com</u>				Page:				
Company: <u>GA Power</u>								Job #:				
Address: <u>241 Ralph McGill Blvd SE</u>		Due Date Requested:		Analysis Requested				Preservation Codes:				
City: <u>Atlanta</u>		TAT Requested (days):						M - Hexane A - HCL N - None O - AsNaO2 P - Na2O4S ... SO3 203 204 Dodecahydrate ine A -5 (specify)				
State, Zip: <u>GA, 30308</u>		PO #: <u>404-506-7116(Tel)</u>		Perform MSMSD (Yes or No)		Radium 226 & 228 (SW-846 9315/9320)		Barcode				
Phone: <u>404-506-7116(Tel)</u>		WO #: <u>SCS10382606</u>		Field Filtered Sample (Yes or No)		Fluoride (EPA 300.0)		180-116916 Chain of Custody				
Email: <u>SCS Contacts</u>		Project #: <u>18019922</u>		App. IV Metals (Sb,As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)								
Site: <u>CCR - Plant Wansley Ash Pond</u>		SSOW#:										
Sample Identification	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 MSMSD (Yes or No)	App. IV Metals (Sb,As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Fluoride (EPA 300.0)	Radium 226 & 228 (SW-846 9315/9320)	Total Number of	Special Instructions/Note: App 4 Scan Event	Form
<u>DUP-2</u>	<u>2-4-21</u>	<u>1320</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH=</u>	<u>Form</u>
<u>FIED of 2-4-21 FB-2</u>	<u>2-4-21</u>	<u>1320</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH=</u>	<u>Form</u>
<u>WGWA-6</u>	<u>2-3-21</u>	<u>1030</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 7.76</u>	<u>Form</u>
<u>WGWA-5</u>	<u>2-3-21</u>	<u>1325</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 5.30</u>	<u>Form</u>
<u>WGWC-19</u>	<u>1-3-21</u>	<u>1430</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 6.75</u>	<u>Form</u>
<u>WGWC-11</u>	<u>2-3-21</u>	<u>1435</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 5.21</u>	<u>Form</u>
<u>WGWC-12</u>	<u>2-3-21</u>	<u>1325</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 6.15</u>	<u>Form</u>
<u>WGWC-8</u>	<u>2-3-21</u>	<u>1545</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 5.08</u>	<u>Form</u>
<u>WGWC-15</u>	<u>2-4-21</u>	<u>1105</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 7.77</u>	<u>Form</u>
<u>WGWC-16</u>	<u>2-4-21</u>	<u>1230</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 5.42</u>	<u>Form</u>
<u>WGWC-17</u>	<u>2-4-21</u>	<u>1345</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>	<u>pH= 6.31</u>	<u>Form</u>
Possible Hazard Identification												
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input checked="" 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 checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Special Instructions/QC Requirements:												
Empty Kit Relinquished by: _____ Date: _____												
Relinquished by: _____ Date: <u>2/5/21</u> Time: <u>10:20</u> Company: <u>AEC</u>												
Relinquished by: _____ Date: <u>2/5/21</u> Time: <u>16:00</u> Company: <u>RT</u>												
Relinquished by: _____ Date: _____ Time: _____ Company: _____												
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Custody Seal No.: _____												
Cooler Temperature(s) °C and Other Remarks:												

244-ATLANTA

Chain of Custody Record



2 of 2

Client Information		Sampler: <u>O. F. Quica, H. Auld</u>	Lab PM: <u>Brown, Shali</u>	Carrier Tracking No(s):	COC No.:					
Client Contact: SCS Contacts		Phone: <u>(770) 594-5998</u>	E-Mail: <u>shali.brown@eurofinset.com</u>		Page:					
Company: GA Power					Job #:					
Address: 241 Ralph McGill Blvd SE		Due Date Requested:		Analysis Requested						
City: Atlanta		TAT Requested (days):		Preservation Codes:						
State, Zip: GA, 30308				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:						
Phone: 404-506-7116 (Tel)		PO #: <u>SCS10382606</u>		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)						
Email: SCS Contacts		WO #:		Special Instructions/Note: Full						
Project Name: CCR - Plant Wansley Ash Pond		Project #: <u>18019922</u>		App 4 Scan Event						
Site:		SSOW#:		Total Number of containers						
Sample Identification	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)	Period MS/MSD (Yes or No)	App. IV Metals (Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl)	Fluoride (EPA 300.0)	Radium 226 & 228 (SW-846 9315/9320)	Special Instructions/Note:
<u>FB-1</u>	<u>2-4-21</u>	<u>1415</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>pH=</u>
<u>FB-2</u>	<u>2-4-21</u>	<u>1430</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>pH=</u>
<u>WGWC-9</u>	<u>2-4-21</u>	<u>1412</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>pH= 6.22</u>
<u>WGWC-10</u>	<u>2-4-21</u>	<u>1550</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>pH= 6.21</u>
<u>WGWC-13</u>	<u>2-4-21</u>	<u>1115</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>pH= 6.34</u>
<u>WGWC-14A</u>	<u>2-4-21</u>	<u>1240</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>pH= 5.70</u>
			<u>G</u>	<u>Water</u>						<u>pH=</u>
			<u>G</u>	<u>Water</u>						<u>pH=</u>
			<u>G</u>	<u>Water</u>						<u>pH=</u>
			<u>G</u>	<u>Water</u>						<u>pH=</u>
			<u>G</u>	<u>Water</u>						<u>pH=</u>
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 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: _____ Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____										





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RT 97
FZ
1 16:30
A 9371 02.04

Part #: 199469-434 RT2 EXP 11/21

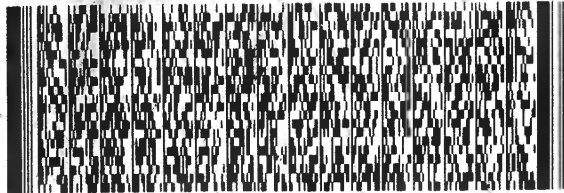
ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 03FEB21
ACTWGT: 59.85 LB
CAD: 859116/CAFE3406

BILL RECIPIENT

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

(412) 963-7068
REF: ACC - WANSLEY



FedEx
Express
E
AN1090116101026

1 of 2
TRK# 1516 9327 9371
0201
MASTER

THU - 04 FEB 4:30P
STANDARD OVERNIGHT

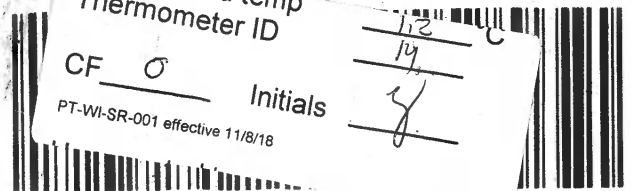
NA AGCA

15238
PA-US **PIT**

Uncorrected temp
Thermometer ID

CF 0 Initials

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





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ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 03FEB21
ACTWGT: 59.85 LB
CAD: 859116/CAFE3406

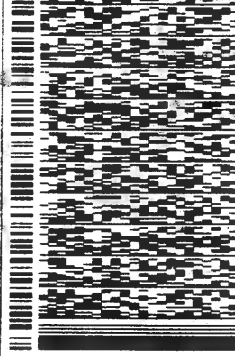
BILL RECIPIENT

TO SAMPLE RECEIVING

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

(412) 863-7058

REF: ACC - WANSLEY



FedEx
Express



THU - 04 FEB 4:30P
STANDARD OVERNIGHT

2 of 2

MPS# 1516 9327 9382

0263

Mstr# 1516 9327 9371

0201

NA AGCA

15238
PA-US
PIT

Uncorrectea temp

Thermometer ID

CF O Initials

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

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SDR



ORIGIN ID: L1YA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

SHIP DATE: 05FEB21
 ACTWGT: 66.70 LB
 CAD: 859116/CAFE3406

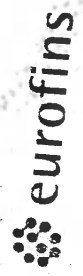
BILL RECIPIENT

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



4 of 4
MPS# 1516 9328 0066
MsTr# 1516 9328 0033
XO AGCA
SATURDAY 12:00P
PRIORITY OVERNIGHT
15238
PA-US PIT

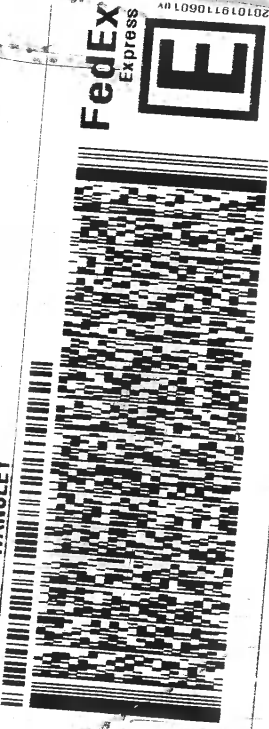
Uncorrected temp
 Thermometer ID
 CF Initials
 28 / 14 °C
 PT-WI-SR-001 effective 11/8/18



Environment Testing
 TestAmerica

ORIGIN ID: L1YA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
 (412) 963-7066
 REF: ACCC - WANSLEY



1 of 4
TRM# 1516 9328 0033
MASTER
XO AGCA
SATURDAY 12:00P
PRIORITY OVERNIGHT
15238
PA-US PIT

Uncorrected temp
 Thermometer ID
 CF Initials
 31 / 14 °C
 PT-WI-SR-001 effective 11/8/18

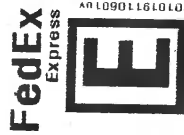


Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACCC - WANSLEY



2 of 4

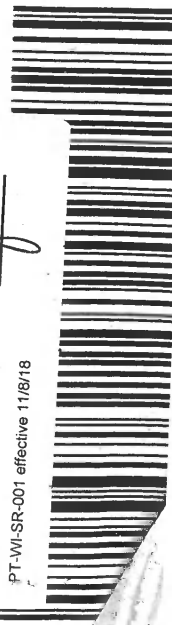
MPS# 1516 9328 0044
0263
Mstr# 1516 9328 0033

XI Uncorrected temp
Thermometer ID

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14
15238
PA-US
PIT

CF Initials

PT-WI-SR-001 effective 11/6/18



Part # 159469-434 RIT2 EXP 11/21



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACCC - WANSLEY



3 of 4
SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# 1516 9328 0055
0263
Mstr# 1516 9328 0033

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Uncorrected temp

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15238
PA-US
PIT

Thermometer ID

CF Initials

PT-WI-SR-001 effective 11/6/18



Part # 159469-434 RIT2 EXP 11/21

RT 639



Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 180-425732.1
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@Eurofinset.com	State of Origin: Georgia	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-116807-2		
Address: 13715 Rider Trail North, Earth City, MO, 63045		Analysis Requested		
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 Other: M - Hexane N - None O - AsNaO2 P - NaZOMS Q - NaZSO3 R - NaZSO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)		
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)		Field Filled Sample (Yes or No)		
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Al)	Field Filled Sample (Yes or No)
2/2/21	Eastern	Water	Water	X
Dup-1 (180-116807-1)	2/2/21	14:45 Eastern	Water	X
EB-1 (180-116807-2)	2/2/21	11:15 Eastern	Water	X
WGWA-1 (180-116807-3)	2/2/21	12:20 Eastern	Water	X
WGWA-2 (180-116807-4)	2/2/21	14:50 Eastern	Water	X
WGWA-18 (180-116807-5)	2/2/21	11:45 Eastern	Water	X
WGWA-3 (180-116807-6)	2/2/21	12:50 Eastern	Water	X
WGWA-4 (180-116807-7)	2/2/21	14:10 Eastern	Water	X
WGWA-7 (180-116807-8)	2/2/21		Water	X
		Special Instructions/Note:		
		Total Number of containers		
		9315_Ra226/Prescp_21 Standard Target List		
		9320_Ra228/Prescp_0 Standard Target List		
		Ra226Ra228_GFPc		

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/ests/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: *Jeremy Jones* Date/Time: 2/5/21 17:00 Company: ETA P/H
 Relinquished by: *FedEx* Date/Time: 2/6/21 09:09 Company: ETASTL
 Relinquished by: _____ Date/Time: _____ Company: _____
 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:

Time: _____ Method of Shipment: _____
 Received by: *FedEx* Date/Time: _____ Company: _____
 Received by: *JRB* Date/Time: 2/6/21 09:09 Company: ETASTL
 Received by: _____ Date/Time: _____ Company: _____

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-116807-2

Login Number: 116807

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	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-116807-2

Login Number: 116807

List Number: 2

Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 02/06/21 11:50 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: 180-116807-2

Login Number: 116916

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.	False	
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: 180-116807-2

Login Number: 116916

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins TestAmerica, St. Louis

List Creation: 02/09/21 01:29 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.	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: 180-118172-1

Client Project/Site: Plant Wansley Ash Pond PZ
Revision: 2

For:

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

Attn: Kristen N Jurinko



Authorized for release by:
5/4/2021 5:59:30 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

Review your project
results through
Total Access

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



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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Job ID: 180-118172-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-118172-1

Comments

050421 Revised report to add Lithium to the following samples at client request: 180-118172-1 (PZ-22), 180-118172-2 (PZ-23S), 180-118172-3 (PZ-24), 180-118172-4 (PZ-27S). This report replaces the report previously issued on 031921.

031921 Revised report to change metals units from ug/L to mg/L. This report replaces the report previously issued on 031821.

Receipt

The samples were received on 3/10/2021 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7° C.

GC Semi VOA

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

Metals

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

Field Service / Mobile Lab

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

General Chemistry

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

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

General Chemistry

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 Ash Pond PZ

Job ID: 180-118172-1

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	09-30-22
Florida	NELAP	E871008	06-30-21
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-21
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-21
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	07-31-21
New Hampshire	NELAP	2030	04-04-21
New Jersey	NELAP	PA005	06-30-21
New York	NELAP	11182	03-31-21
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-21
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	01-31-22
Wisconsin	State	998027800	08-31-21



Sample Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-118172-1	PZ-22	Water	03/08/21 15:25	03/10/21 09:00	
180-118172-2	PZ-23S	Water	03/09/21 12:30	03/10/21 09:00	
180-118172-3	PZ-24	Water	03/09/21 10:50	03/10/21 09:00	
180-118172-4	PZ-27S	Water	03/08/21 14:00	03/10/21 09:00	
180-118172-5	PZ-27D	Water	03/08/21 13:00	03/10/21 09:00	
180-118172-6	FB-1	Water	03/09/21 12:50	03/10/21 09:00	
180-118172-7	Dup-1	Water	03/08/21 00:00	03/10/21 09:00	
180-118172-8	EB-1	Water	03/09/21 11:00	03/10/21 09:00	

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Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

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 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-22

Lab Sample ID: 180-118172-1

Date Collected: 03/08/21 15:25

Matrix: Water

Date Received: 03/10/21 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: INTEGRION		1			349204	03/12/21 16:38	EPS	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		5			349204	03/12/21 16:56	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	349140	03/11/21 15:11	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			349307	03/12/21 11:52	RSK	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	349117	03/11/21 14:00	CMR	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			349236	03/11/21 16:16	CMR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	349487	03/15/21 20:25	GRB	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			349535	03/13/21 14:45	REI	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			349443	03/08/21 15:25	FDS	TAL PIT

Client Sample ID: PZ-23S

Lab Sample ID: 180-118172-2

Date Collected: 03/09/21 12:30

Matrix: Water

Date Received: 03/10/21 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: INTEGRION		1			349204	03/12/21 16:02	EPS	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		5			349204	03/12/21 16:20	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	349140	03/11/21 15:11	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			349307	03/12/21 12:25	RSK	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	349117	03/11/21 14:00	CMR	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			349236	03/11/21 16:19	CMR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	349489	03/15/21 20:29	GRB	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			349535	03/13/21 15:14	REI	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			349443	03/09/21 12:30	FDS	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-24

Lab Sample ID: 180-118172-3

Date Collected: 03/09/21 10:50

Matrix: Water

Date Received: 03/10/21 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			349204	03/12/21 17:50	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	349140	03/11/21 15:11	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349307	03/12/21 12:29	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	9030B			50 mL	50 mL	349117	03/11/21 14:00	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349236	03/11/21 16:21	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349489	03/15/21 20:29	GRB	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			349535	03/13/21 15:32	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349443	03/09/21 10:50	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: PZ-27S

Lab Sample ID: 180-118172-4

Date Collected: 03/08/21 14:00

Matrix: Water

Date Received: 03/10/21 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			349204	03/12/21 19:01	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	349140	03/11/21 15:11	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349307	03/12/21 12:32	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	9030B			50 mL	50 mL	349117	03/11/21 14:00	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349236	03/11/21 16:23	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349487	03/15/21 20:25	GRB	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			349535	03/13/21 15:40	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349443	03/08/21 14:00	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: PZ-27D

Lab Sample ID: 180-118172-5

Date Collected: 03/08/21 13:00

Matrix: Water

Date Received: 03/10/21 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			349204	03/12/21 15:27	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	349140	03/11/21 15:11	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349307	03/12/21 12:36	RSK	TAL PIT
Instrument ID: A										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-27D

Lab Sample ID: 180-118172-5

Date Collected: 03/08/21 13:00

Matrix: Water

Date Received: 03/10/21 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	9030B			50 mL	50 mL	349117	03/11/21 14:00	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349236	03/11/21 16:26	CMR	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349481	03/15/21 15:56	NAF	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			349535	03/13/21 15:50	REI	TAL PIT
		Instrument ID: PCTITRATOR								
Total/NA	Analysis	Field Sampling		1			349443	03/08/21 13:00	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: FB-1

Lab Sample ID: 180-118172-6

Date Collected: 03/09/21 12:50

Matrix: Water

Date Received: 03/10/21 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			349204	03/12/21 19:55	EPS	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	349140	03/11/21 15:11	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349307	03/12/21 12:39	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	9030B			50 mL	50 mL	349117	03/11/21 14:00	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349236	03/11/21 16:28	CMR	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349489	03/15/21 20:29	GRB	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			349535	03/13/21 15:59	REI	TAL PIT
		Instrument ID: PCTITRATOR								

Client Sample ID: Dup-1

Lab Sample ID: 180-118172-7

Date Collected: 03/08/21 00:00

Matrix: Water

Date Received: 03/10/21 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			349204	03/12/21 18:43	EPS	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	349140	03/11/21 15:11	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349307	03/12/21 12:43	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	9030B			50 mL	50 mL	349117	03/11/21 14:00	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349236	03/11/21 16:30	CMR	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349487	03/15/21 20:25	GRB	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			349535	03/13/21 16:08	REI	TAL PIT
		Instrument ID: PCTITRATOR								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: EB-1

Lab Sample ID: 180-118172-8

Date Collected: 03/09/21 11:00

Matrix: Water

Date Received: 03/10/21 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			349204	03/12/21 20:13	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	349140	03/11/21 15:11	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349307	03/12/21 12:58	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	9030B			50 mL	50 mL	349117	03/11/21 14:00	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349236	03/11/21 16:33	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349487	03/15/21 20:25	GRB	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			349535	03/13/21 14:36	REI	TAL PIT
Instrument ID: PCTITRATOR										

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

CMR = Carl Reagle

TJO = Tyler Oliver

Batch Type: Analysis

CMR = Carl Reagle

EPS = Evan Scheuer

FDS = Sampler Field

GRB = Gabriel Berghe

NAF = Nicholas Frankos

REI = Rachel Innocenzi

RSK = Robert Kurtz

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-22

Lab Sample ID: 180-118172-1

Date Collected: 03/08/21 15:25

Matrix: Water

Date Received: 03/10/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70		1.0	0.71	mg/L			03/12/21 16:38	1
Fluoride	1.8		0.10	0.026	mg/L			03/12/21 16:38	1
Sulfate	240		5.0	3.8	mg/L			03/12/21 16:56	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.3		0.080	0.039	mg/L		03/11/21 15:11	03/12/21 11:52	1
Calcium	90		0.50	0.13	mg/L		03/11/21 15:11	03/12/21 11:52	1
Iron	0.061		0.050	0.020	mg/L		03/11/21 15:11	03/12/21 11:52	1
Magnesium	19		0.50	0.083	mg/L		03/11/21 15:11	03/12/21 11:52	1
Manganese	0.14		0.0050	0.00087	mg/L		03/11/21 15:11	03/12/21 11:52	1
Potassium	4.5		0.50	0.16	mg/L		03/11/21 15:11	03/12/21 11:52	1
Sodium	36		0.50	0.35	mg/L		03/11/21 15:11	03/12/21 11:52	1
Lithium	0.11		0.0050	0.0034	mg/L		03/11/21 15:11	03/12/21 11:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/11/21 14:00	03/11/21 16:16	1
Total Dissolved Solids	590		10	10	mg/L			03/15/21 20:25	1
Total Alkalinity as CaCO3 to pH 4.5	12		5.0	5.0	mg/L			03/13/21 14:45	1
Bicarbonate Alkalinity as CaCO3	12		5.0	5.0	mg/L			03/13/21 14:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.54				SU			03/08/21 15:25	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-23S

Lab Sample ID: 180-118172-2

Date Collected: 03/09/21 12:30

Matrix: Water

Date Received: 03/10/21 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	0.71	mg/L			03/12/21 16:02	1
Fluoride	1.7		0.10	0.026	mg/L			03/12/21 16:02	1
Sulfate	230		5.0	3.8	mg/L			03/12/21 16:20	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.19		0.080	0.039	mg/L		03/11/21 15:11	03/12/21 12:25	1
Calcium	66		0.50	0.13	mg/L		03/11/21 15:11	03/12/21 12:25	1
Iron	0.86		0.050	0.020	mg/L		03/11/21 15:11	03/12/21 12:25	1
Magnesium	9.3		0.50	0.083	mg/L		03/11/21 15:11	03/12/21 12:25	1
Manganese	1.9		0.0050	0.00087	mg/L		03/11/21 15:11	03/12/21 12:25	1
Potassium	3.6		0.50	0.16	mg/L		03/11/21 15:11	03/12/21 12:25	1
Sodium	120		0.50	0.35	mg/L		03/11/21 15:11	03/12/21 12:25	1
Lithium	0.022		0.0050	0.0034	mg/L		03/11/21 15:11	03/12/21 12:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/11/21 14:00	03/11/21 16:19	1
Total Dissolved Solids	610		10	10	mg/L			03/15/21 20:29	1
Total Alkalinity as CaCO3 to pH 4.5	110		5.0	5.0	mg/L			03/13/21 15:14	1
Bicarbonate Alkalinity as CaCO3	110		5.0	5.0	mg/L			03/13/21 15:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.29				SU			03/09/21 12:30	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-24

Lab Sample ID: 180-118172-3

Date Collected: 03/09/21 10:50

Matrix: Water

Date Received: 03/10/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			03/12/21 17:50	1
Fluoride	1.1	F1	0.10	0.026	mg/L			03/12/21 17:50	1
Sulfate	80	F1	1.0	0.76	mg/L			03/12/21 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.33		0.080	0.039	mg/L		03/11/21 15:11	03/12/21 12:29	1
Calcium	15		0.50	0.13	mg/L		03/11/21 15:11	03/12/21 12:29	1
Iron	0.21		0.050	0.020	mg/L		03/11/21 15:11	03/12/21 12:29	1
Magnesium	4.0		0.50	0.083	mg/L		03/11/21 15:11	03/12/21 12:29	1
Manganese	0.45		0.0050	0.00087	mg/L		03/11/21 15:11	03/12/21 12:29	1
Potassium	4.4		0.50	0.16	mg/L		03/11/21 15:11	03/12/21 12:29	1
Sodium	25		0.50	0.35	mg/L		03/11/21 15:11	03/12/21 12:29	1
Lithium	0.011		0.0050	0.0034	mg/L		03/11/21 15:11	03/12/21 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	2.1	J	3.0	2.1	mg/L		03/11/21 14:00	03/11/21 16:21	1
Total Dissolved Solids	200		10	10	mg/L			03/15/21 20:29	1
Total Alkalinity as CaCO3 to pH 4.5	27		5.0	5.0	mg/L			03/13/21 15:32	1
Bicarbonate Alkalinity as CaCO3	27		5.0	5.0	mg/L			03/13/21 15:32	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.56				SU			03/09/21 10:50	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-27S

Lab Sample ID: 180-118172-4

Date Collected: 03/08/21 14:00

Matrix: Water

Date Received: 03/10/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74		1.0	0.71	mg/L			03/12/21 19:01	1
Fluoride	<0.026		0.10	0.026	mg/L			03/12/21 19:01	1
Sulfate	4.7		1.0	0.76	mg/L			03/12/21 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.48		0.080	0.039	mg/L		03/11/21 15:11	03/12/21 12:32	1
Calcium	14		0.50	0.13	mg/L		03/11/21 15:11	03/12/21 12:32	1
Iron	0.35		0.050	0.020	mg/L		03/11/21 15:11	03/12/21 12:32	1
Magnesium	17		0.50	0.083	mg/L		03/11/21 15:11	03/12/21 12:32	1
Manganese	0.32		0.0050	0.00087	mg/L		03/11/21 15:11	03/12/21 12:32	1
Potassium	3.7		0.50	0.16	mg/L		03/11/21 15:11	03/12/21 12:32	1
Sodium	9.3		0.50	0.35	mg/L		03/11/21 15:11	03/12/21 12:32	1
Lithium	0.0046	J	0.0050	0.0034	mg/L		03/11/21 15:11	03/12/21 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/11/21 14:00	03/11/21 16:23	1
Total Dissolved Solids	220		10	10	mg/L			03/15/21 20:25	1
Total Alkalinity as CaCO3 to pH 4.5	39		5.0	5.0	mg/L			03/13/21 15:40	1
Bicarbonate Alkalinity as CaCO3	39		5.0	5.0	mg/L			03/13/21 15:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.36				SU			03/08/21 14:00	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: PZ-27D

Lab Sample ID: 180-118172-5

Date Collected: 03/08/21 13:00

Matrix: Water

Date Received: 03/10/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		1.0	0.71	mg/L			03/12/21 15:27	1
Fluoride	0.38		0.10	0.026	mg/L			03/12/21 15:27	1
Sulfate	160		1.0	0.76	mg/L			03/12/21 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.23		0.080	0.039	mg/L		03/11/21 15:11	03/12/21 12:36	1
Calcium	33		0.50	0.13	mg/L		03/11/21 15:11	03/12/21 12:36	1
Iron	0.62		0.050	0.020	mg/L		03/11/21 15:11	03/12/21 12:36	1
Magnesium	11		0.50	0.083	mg/L		03/11/21 15:11	03/12/21 12:36	1
Manganese	2.0		0.0050	0.00087	mg/L		03/11/21 15:11	03/12/21 12:36	1
Potassium	46		0.50	0.16	mg/L		03/11/21 15:11	03/12/21 12:36	1
Sodium	160		0.50	0.35	mg/L		03/11/21 15:11	03/12/21 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/11/21 14:00	03/11/21 16:26	1
Total Dissolved Solids	700		10	10	mg/L			03/15/21 15:56	1
Total Alkalinity as CaCO ₃ to pH 4.5	190		5.0	5.0	mg/L			03/13/21 15:50	1
Bicarbonate Alkalinity as CaCO ₃	190		5.0	5.0	mg/L			03/13/21 15:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.44				SU			03/08/21 13:00	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: FB-1

Lab Sample ID: 180-118172-6

Date Collected: 03/09/21 12:50

Matrix: Water

Date Received: 03/10/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/12/21 19:55	1
Fluoride	<0.026		0.10	0.026	mg/L			03/12/21 19:55	1
Sulfate	<0.76		1.0	0.76	mg/L			03/12/21 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.075	J	0.080	0.039	mg/L		03/11/21 15:11	03/12/21 12:39	1
Calcium	<0.13		0.50	0.13	mg/L		03/11/21 15:11	03/12/21 12:39	1
Iron	<0.020		0.050	0.020	mg/L		03/11/21 15:11	03/12/21 12:39	1
Magnesium	<0.083		0.50	0.083	mg/L		03/11/21 15:11	03/12/21 12:39	1
Manganese	<0.00087		0.0050	0.00087	mg/L		03/11/21 15:11	03/12/21 12:39	1
Potassium	<0.16		0.50	0.16	mg/L		03/11/21 15:11	03/12/21 12:39	1
Sodium	<0.35		0.50	0.35	mg/L		03/11/21 15:11	03/12/21 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/11/21 14:00	03/11/21 16:28	1
Total Dissolved Solids	<10		10	10	mg/L			03/15/21 20:29	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/13/21 15:59	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/13/21 15:59	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: Dup-1

Lab Sample ID: 180-118172-7

Date Collected: 03/08/21 00:00

Matrix: Water

Date Received: 03/10/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71		1.0	0.71	mg/L			03/12/21 18:43	1
Fluoride	0.038	J	0.10	0.026	mg/L			03/12/21 18:43	1
Sulfate	4.8		1.0	0.76	mg/L			03/12/21 18:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.49		0.080	0.039	mg/L		03/11/21 15:11	03/12/21 12:43	1
Calcium	15		0.50	0.13	mg/L		03/11/21 15:11	03/12/21 12:43	1
Iron	0.25		0.050	0.020	mg/L		03/11/21 15:11	03/12/21 12:43	1
Magnesium	17		0.50	0.083	mg/L		03/11/21 15:11	03/12/21 12:43	1
Manganese	0.33		0.0050	0.00087	mg/L		03/11/21 15:11	03/12/21 12:43	1
Potassium	3.8		0.50	0.16	mg/L		03/11/21 15:11	03/12/21 12:43	1
Sodium	9.3		0.50	0.35	mg/L		03/11/21 15:11	03/12/21 12:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/11/21 14:00	03/11/21 16:30	1
Total Dissolved Solids	200		10	10	mg/L			03/15/21 20:25	1
Total Alkalinity as CaCO ₃ to pH 4.5	38		5.0	5.0	mg/L			03/13/21 16:08	1
Bicarbonate Alkalinity as CaCO ₃	38		5.0	5.0	mg/L			03/13/21 16:08	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Client Sample ID: EB-1

Lab Sample ID: 180-118172-8

Date Collected: 03/09/21 11:00

Matrix: Water

Date Received: 03/10/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/12/21 20:13	1
Fluoride	<0.026		0.10	0.026	mg/L			03/12/21 20:13	1
Sulfate	<0.76		1.0	0.76	mg/L			03/12/21 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.043	J	0.080	0.039	mg/L		03/11/21 15:11	03/12/21 12:58	1
Calcium	<0.13		0.50	0.13	mg/L		03/11/21 15:11	03/12/21 12:58	1
Iron	<0.020		0.050	0.020	mg/L		03/11/21 15:11	03/12/21 12:58	1
Magnesium	<0.083		0.50	0.083	mg/L		03/11/21 15:11	03/12/21 12:58	1
Manganese	<0.00087		0.0050	0.00087	mg/L		03/11/21 15:11	03/12/21 12:58	1
Potassium	<0.16		0.50	0.16	mg/L		03/11/21 15:11	03/12/21 12:58	1
Sodium	<0.35		0.50	0.35	mg/L		03/11/21 15:11	03/12/21 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/11/21 14:00	03/11/21 16:33	1
Total Dissolved Solids	<10		10	10	mg/L			03/15/21 20:25	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/13/21 14:36	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/13/21 14:36	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

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

Lab Sample ID: MB 180-349204/6
Matrix: Water
Analysis Batch: 349204

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/12/21 10:18	1
Fluoride	<0.026		0.10	0.026	mg/L			03/12/21 10:18	1
Sulfate	<0.76		1.0	0.76	mg/L			03/12/21 10:18	1

Lab Sample ID: LCS 180-349204/5
Matrix: Water
Analysis Batch: 349204

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	52.2		mg/L		104	90 - 110
Fluoride	2.50	2.51		mg/L		100	90 - 110
Sulfate	50.0	51.3		mg/L		103	90 - 110

Lab Sample ID: 180-118172-3 MS
Matrix: Water
Analysis Batch: 349204

Client Sample ID: PZ-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.9		50.0	55.2		mg/L		105	90 - 110
Fluoride	1.1	F1	2.50	3.45		mg/L		94	90 - 110
Sulfate	80	F1	50.0	128		mg/L		95	90 - 110

Lab Sample ID: 180-118172-3 MSD
Matrix: Water
Analysis Batch: 349204

Client Sample ID: PZ-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.9		50.0	52.8		mg/L		100	90 - 110	5	20
Fluoride	1.1	F1	2.50	3.31	F1	mg/L		88	90 - 110	4	20
Sulfate	80	F1	50.0	122	F1	mg/L		84	90 - 110	5	20

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

Lab Sample ID: MB 180-349140/1-A
Matrix: Water
Analysis Batch: 349307

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 349140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		03/11/21 15:11	03/12/21 09:09	1
Calcium	<0.13		0.50	0.13	mg/L		03/11/21 15:11	03/12/21 09:09	1
Iron	<0.020		0.050	0.020	mg/L		03/11/21 15:11	03/12/21 09:09	1
Magnesium	<0.083		0.50	0.083	mg/L		03/11/21 15:11	03/12/21 09:09	1
Manganese	<0.00087		0.0050	0.00087	mg/L		03/11/21 15:11	03/12/21 09:09	1
Potassium	<0.16		0.50	0.16	mg/L		03/11/21 15:11	03/12/21 09:09	1
Sodium	<0.35		0.50	0.35	mg/L		03/11/21 15:11	03/12/21 09:09	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/11/21 15:11	03/12/21 09:09	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

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

Lab Sample ID: LCS 180-349140/2-A
Matrix: Water
Analysis Batch: 349307

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 349140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.25	1.15		mg/L		92	80 - 120
Calcium	25.0	26.5		mg/L		106	80 - 120
Iron	5.00	5.21		mg/L		104	80 - 120
Magnesium	25.0	24.8		mg/L		99	80 - 120
Manganese	0.500	0.511		mg/L		102	80 - 120
Potassium	25.0	25.5		mg/L		102	80 - 120
Sodium	25.0	25.8		mg/L		103	80 - 120
Lithium	0.500	0.489		mg/L		98	80 - 120

Lab Sample ID: 180-118172-1 MS
Matrix: Water
Analysis Batch: 349307

Client Sample ID: PZ-22
Prep Type: Total Recoverable
Prep Batch: 349140

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Boron	1.3		1.25	2.33		mg/L		85	75 - 125
Calcium	90		25.0	120		mg/L		120	75 - 125
Iron	0.061		5.00	5.34		mg/L		106	75 - 125
Magnesium	19		25.0	44.8		mg/L		101	75 - 125
Manganese	0.14		0.500	0.667		mg/L		105	75 - 125
Potassium	4.5		25.0	30.4		mg/L		103	75 - 125
Sodium	36		25.0	60.7		mg/L		99	75 - 125
Lithium	0.11		0.500	0.590		mg/L		96	75 - 125

Lab Sample ID: 180-118172-1 MSD
Matrix: Water
Analysis Batch: 349307

Client Sample ID: PZ-22
Prep Type: Total Recoverable
Prep Batch: 349140

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Boron	1.3		1.25	2.30		mg/L		83	75 - 125	1	20
Calcium	90		25.0	114		mg/L		97	75 - 125	5	20
Iron	0.061		5.00	5.26		mg/L		104	75 - 125	1	20
Magnesium	19		25.0	42.4		mg/L		92	75 - 125	5	20
Manganese	0.14		0.500	0.646		mg/L		100	75 - 125	3	20
Potassium	4.5		25.0	29.1		mg/L		98	75 - 125	4	20
Sodium	36		25.0	58.9		mg/L		92	75 - 125	3	20
Lithium	0.11		0.500	0.578		mg/L		93	75 - 125	2	20

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-349117/1-A
Matrix: Water
Analysis Batch: 349236

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349117

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/11/21 14:00	03/11/21 15:44	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 180-349117/2-A
 Matrix: Water
 Analysis Batch: 349236

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 349117
 %Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Sulfide	12.5	11.0		mg/L		88	85 - 115

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

Lab Sample ID: MB 180-349481/2
 Matrix: Water
 Analysis Batch: 349481

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			03/15/21 15:56	1

Lab Sample ID: LCS 180-349481/1
 Matrix: Water
 Analysis Batch: 349481

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	457	422		mg/L		92	80 - 120

Lab Sample ID: MB 180-349487/2
 Matrix: Water
 Analysis Batch: 349487

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			03/15/21 20:25	1

Lab Sample ID: LCS 180-349487/1
 Matrix: Water
 Analysis Batch: 349487

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	457	458		mg/L		100	80 - 120

Lab Sample ID: MB 180-349489/2
 Matrix: Water
 Analysis Batch: 349489

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			03/15/21 20:29	1

Lab Sample ID: LCS 180-349489/1
 Matrix: Water
 Analysis Batch: 349489

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	457	440		mg/L		96	80 - 120

QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

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

Lab Sample ID: 180-118172-2 DU
 Matrix: Water
 Analysis Batch: 349489

Client Sample ID: PZ-23S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	610		610		mg/L		0.5	10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-349535/6
 Matrix: Water
 Analysis Batch: 349535

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/13/21 13:40	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/13/21 13:40	1

Lab Sample ID: LCS 180-349535/5
 Matrix: Water
 Analysis Batch: 349535

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	229		mg/L		92	90 - 110

Lab Sample ID: 180-118172-2 DU
 Matrix: Water
 Analysis Batch: 349535

Client Sample ID: PZ-23S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	110		118		mg/L		3	20
Bicarbonate Alkalinity as CaCO3	110		118		mg/L		3	20

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

HPLC/IC

Analysis Batch: 349204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118172-1	PZ-22	Total/NA	Water	EPA 300.0 R2.1	
180-118172-1	PZ-22	Total/NA	Water	EPA 300.0 R2.1	
180-118172-2	PZ-23S	Total/NA	Water	EPA 300.0 R2.1	
180-118172-2	PZ-23S	Total/NA	Water	EPA 300.0 R2.1	
180-118172-3	PZ-24	Total/NA	Water	EPA 300.0 R2.1	
180-118172-4	PZ-27S	Total/NA	Water	EPA 300.0 R2.1	
180-118172-5	PZ-27D	Total/NA	Water	EPA 300.0 R2.1	
180-118172-6	FB-1	Total/NA	Water	EPA 300.0 R2.1	
180-118172-7	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
180-118172-8	EB-1	Total/NA	Water	EPA 300.0 R2.1	
MB 180-349204/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-349204/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-118172-3 MS	PZ-24	Total/NA	Water	EPA 300.0 R2.1	
180-118172-3 MSD	PZ-24	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 349140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118172-1	PZ-22	Total Recoverable	Water	3005A	
180-118172-2	PZ-23S	Total Recoverable	Water	3005A	
180-118172-3	PZ-24	Total Recoverable	Water	3005A	
180-118172-4	PZ-27S	Total Recoverable	Water	3005A	
180-118172-5	PZ-27D	Total Recoverable	Water	3005A	
180-118172-6	FB-1	Total Recoverable	Water	3005A	
180-118172-7	Dup-1	Total Recoverable	Water	3005A	
180-118172-8	EB-1	Total Recoverable	Water	3005A	
MB 180-349140/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-349140/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-118172-1 MS	PZ-22	Total Recoverable	Water	3005A	
180-118172-1 MSD	PZ-22	Total Recoverable	Water	3005A	

Analysis Batch: 349307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118172-1	PZ-22	Total Recoverable	Water	EPA 6020B	349140
180-118172-2	PZ-23S	Total Recoverable	Water	EPA 6020B	349140
180-118172-3	PZ-24	Total Recoverable	Water	EPA 6020B	349140
180-118172-4	PZ-27S	Total Recoverable	Water	EPA 6020B	349140
180-118172-5	PZ-27D	Total Recoverable	Water	EPA 6020B	349140
180-118172-6	FB-1	Total Recoverable	Water	EPA 6020B	349140
180-118172-7	Dup-1	Total Recoverable	Water	EPA 6020B	349140
180-118172-8	EB-1	Total Recoverable	Water	EPA 6020B	349140
MB 180-349140/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	349140
LCS 180-349140/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	349140
180-118172-1 MS	PZ-22	Total Recoverable	Water	EPA 6020B	349140
180-118172-1 MSD	PZ-22	Total Recoverable	Water	EPA 6020B	349140

General Chemistry

Prep Batch: 349117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118172-1	PZ-22	Total/NA	Water	9030B	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

General Chemistry (Continued)

Prep Batch: 349117 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118172-2	PZ-23S	Total/NA	Water	9030B	
180-118172-3	PZ-24	Total/NA	Water	9030B	
180-118172-4	PZ-27S	Total/NA	Water	9030B	
180-118172-5	PZ-27D	Total/NA	Water	9030B	
180-118172-6	FB-1	Total/NA	Water	9030B	
180-118172-7	Dup-1	Total/NA	Water	9030B	
180-118172-8	EB-1	Total/NA	Water	9030B	
MB 180-349117/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-349117/2-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 349236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118172-1	PZ-22	Total/NA	Water	EPA 9034	349117
180-118172-2	PZ-23S	Total/NA	Water	EPA 9034	349117
180-118172-3	PZ-24	Total/NA	Water	EPA 9034	349117
180-118172-4	PZ-27S	Total/NA	Water	EPA 9034	349117
180-118172-5	PZ-27D	Total/NA	Water	EPA 9034	349117
180-118172-6	FB-1	Total/NA	Water	EPA 9034	349117
180-118172-7	Dup-1	Total/NA	Water	EPA 9034	349117
180-118172-8	EB-1	Total/NA	Water	EPA 9034	349117
MB 180-349117/1-A	Method Blank	Total/NA	Water	EPA 9034	349117
LCS 180-349117/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	349117

Analysis Batch: 349481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118172-5	PZ-27D	Total/NA	Water	SM 2540C	
MB 180-349481/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-349481/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 349487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118172-1	PZ-22	Total/NA	Water	SM 2540C	
180-118172-4	PZ-27S	Total/NA	Water	SM 2540C	
180-118172-7	Dup-1	Total/NA	Water	SM 2540C	
180-118172-8	EB-1	Total/NA	Water	SM 2540C	
MB 180-349487/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-349487/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 349489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118172-2	PZ-23S	Total/NA	Water	SM 2540C	
180-118172-3	PZ-24	Total/NA	Water	SM 2540C	
180-118172-6	FB-1	Total/NA	Water	SM 2540C	
MB 180-349489/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-349489/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-118172-2 DU	PZ-23S	Total/NA	Water	SM 2540C	

Analysis Batch: 349535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118172-1	PZ-22	Total/NA	Water	SM2320 B	
180-118172-2	PZ-23S	Total/NA	Water	SM2320 B	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118172-1

General Chemistry (Continued)

Analysis Batch: 349535 (Continued)

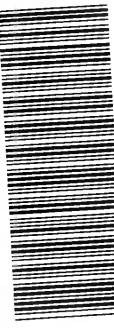
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118172-3	PZ-24	Total/NA	Water	SM2320 B	
180-118172-4	PZ-27S	Total/NA	Water	SM2320 B	
180-118172-5	PZ-27D	Total/NA	Water	SM2320 B	
180-118172-6	FB-1	Total/NA	Water	SM2320 B	
180-118172-7	Dup-1	Total/NA	Water	SM2320 B	
180-118172-8	EB-1	Total/NA	Water	SM2320 B	
MB 180-349535/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-349535/5	Lab Control Sample	Total/NA	Water	SM2320 B	
180-118172-2 DU	PZ-23S	Total/NA	Water	SM2320 B	

Field Service / Mobile Lab

Analysis Batch: 349443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118172-1	PZ-22	Total/NA	Water	Field Sampling	
180-118172-2	PZ-23S	Total/NA	Water	Field Sampling	
180-118172-3	PZ-24	Total/NA	Water	Field Sampling	
180-118172-4	PZ-27S	Total/NA	Water	Field Sampling	
180-118172-5	PZ-27D	Total/NA	Water	Field Sampling	

Chain of Custody Record

Client Information		Sampler: <i>L. Kelly / H. Ad</i>		Lab PM: Brown, Shall		Carrier Tracking No(s):		COC No:	
Client Contact: SCS Contacts		Phone: <i>770-594-5998</i>		E-Mail: shall.brown@eurofinset.com		Page: <i>1 of 1</i>		Job #:	
Company: GA Power		Address: 241 Ralph McGill Blvd SE		City: Atlanta		State: GA, Zip: 30308		Preservation Codes: M - Hexane N - None O - AsNaO2 D - Nitric Acid	
Phone: 404-506-7116(Tel)		PO #: SCS10382606		TAT Requested (days): RUSH		Due Date Requested:		Barcode: 	
E-mail: SCS Contacts		WO #:		3-day TAT				180-118172 Chain of Custody	
Project Name: CCR - Plant Wansley Ash Pond PZ		Project #: 18019922						Major ions - Bicarbonate Alkalinity, Total Alkalinity, Iron, Magnesium, Manganese, Potassium, Sodium, Sulfide	
Site: SOW#:								CF, F, SO & TDS (EPA 300 & SM 2540C)	
								App III Metals (B, Ca)	
								Field Filtered Sample (Yes or No)	
								Performance MS/MSD (Yes or No)	
								Matrix (W=water, S=solid, O=organic, BT=biological, A=air)	
								Sample Type (C=comp, G=grab)	
								Sample Time	
								Sample Date	
								Preservation Code	
								Field Filtered Sample (Yes or No)	
Sample Identification								Special Instructions/Note:	
<i>PZ-22</i>	<i>3-8-21</i>	<i>1525</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>pH= 5.54</i>
<i>PZ-23S</i>	<i>3-4-21</i>	<i>1230</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>pH= 7.29</i>
<i>PZ-24</i>	<i>3-9-21</i>	<i>1050</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>pH= 5.56</i>
<i>PZ-27S</i>	<i>3-8-21</i>	<i>1400</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>pH= 5.36</i>
<i>PZ-27D</i>	<i>3-8-21</i>	<i>1300</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>pH= 7.44</i>
<i>PZ-28D</i>	<i>3-9-21</i>	<i>1320</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>pH= 7.82</i>
<i>FB-1</i>	<i>3-9-21</i>	<i>1250</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>pH= 4</i>
<i>Dup-1</i>	<i>3-8-21</i>	<i>—</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>pH= 4</i>
<i>EB-1</i>	<i>3-9-21</i>	<i>1100</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>pH= 4</i>
			<i>G</i>	<i>Water</i>					<i>pH=</i>
			<i>G</i>	<i>Water</i>					<i>pH=</i>



Environment Testing
TestAmerica

ORIGIN TO: PHDA (404) 946-9486
GUEST: COLEMAN HILL
HAMPTON INN AND SUITES
2628 DAWSON RD

ALBANY, GA 31707
UNITED STATES US

SHIP DATE: 09FEB21
ACTWGT: 10.00 LB MAN
CAD: 0562071/CAFE3406

TO

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 152382907

(412) 963-7058

REF: \$186-68113

RMA: III III III



FedEx
Express



FedEx

TRK# 0221 9509 0059 3325

WED - 10 MAR 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238

PA-US

PIT

Uncorrected temp
Thermometer ID

CF

Initials

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

05 03/09 56DJ3/AC30/FE4A



180-118172 Waybill

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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118172-1

Login Number: 118172

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: 180-118348-1

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:
4/21/2021 5:42:53 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.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: 180-118348-1

Job ID: 180-118348-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-118348-1

Comments

042121 Revised report to correct Thallium result for the following sample based on re-analysis: WGWC-10 (180-118398-2). This report replaces the report previously issued on 041221.

Receipt

The samples were received on 3/12/2021 8:30 AM and 3/13/2021 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 2.5° C, 2.5° C, 2.5° C, 2.6° C, 2.8° C, 2.9° C, 3.2° C, 3.2° C and 3.6° 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) associated with batch 180-350467 recovered above the upper control limit for selenium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: WGWA-2 (180-118348-2), WGWA-3 (180-118348-3), WGWA-4 (180-118348-4), WGWA-5 (180-118348-5), WGWA-6 (180-118348-6), WGWA-7 (180-118348-7), WGWA-18 (180-118348-8), Dup-1 (180-118348-10), WGWC-17 (180-118348-12), EB-1 (180-118348-13), EB-2 (180-118348-14) and FB-1 (180-118348-15).

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

Method SM 2320B: The following samples were analyzed outside of analytical holding time due to mechanical issues: WGWA-1 (180-118348-1), WGWA-2 (180-118348-2), WGWA-3 (180-118348-3), WGWA-4 (180-118348-4), WGWA-5 (180-118348-5), WGWA-6 (180-118348-6), WGWA-7 (180-118348-7), WGWA-18 (180-118348-8), WGWC-8 (180-118348-9), Dup-1 (180-118348-10), WGWC-16 (180-118348-11), WGWC-17 (180-118348-12), EB-1 (180-118348-13), EB-2 (180-118348-14), WGWC-10 (180-118398-2), WGWC-13 (180-118398-4), WGWC-14A (180-118398-5), WGWC-19 (180-118398-7), Dup-2 (180-118398-8), WGWC-15 (180-118398-1), WGWC-11 (180-118398-3), WGWC-9 (180-118398-6), FB-2 (180-118398-9), WGWC-12 (180-118398-10) and FB-1 (180-118348-15).

Method SM 2540C: The following samples were analyzed outside of analytical holding time due to analyst error: WGWA-18 (180-118348-8) and Dup-1 (180-118348-10).

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: 180-118348-1

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
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

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

Job ID: 180-118348-1

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	01-31-22
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-21
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	07-31-21
New Hampshire	NELAP	2030	04-11-21
New Jersey	NELAP	PA005	06-30-21
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-21
Texas	NELAP	T104704528	03-31-22
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	01-31-22
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: 180-118348-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-118348-1	WGWA-1	Water	03/11/21 09:35	03/12/21 08:30	
180-118348-2	WGWA-2	Water	03/10/21 08:55	03/12/21 08:30	
180-118348-3	WGWA-3	Water	03/10/21 10:54	03/12/21 08:30	
180-118348-4	WGWA-4	Water	03/10/21 12:17	03/12/21 08:30	
180-118348-5	WGWA-5	Water	03/10/21 17:05	03/12/21 08:30	
180-118348-6	WGWA-6	Water	03/11/21 10:58	03/12/21 08:30	
180-118348-7	WGWA-7	Water	03/10/21 13:45	03/12/21 08:30	
180-118348-8	WGWA-18	Water	03/10/21 15:42	03/12/21 08:30	
180-118348-9	WGWC-8	Water	03/11/21 12:12	03/12/21 08:30	
180-118348-10	Dup-1	Water	03/10/21 00:00	03/12/21 08:30	
180-118348-11	WGWC-16	Water	03/11/21 13:47	03/12/21 08:30	
180-118348-12	WGWC-17	Water	03/11/21 12:10	03/12/21 08:30	
180-118348-13	EB-1	Water	03/11/21 11:00	03/12/21 08:30	
180-118348-14	EB-2	Water	03/11/21 13:55	03/12/21 08:30	
180-118348-15	FB-1	Water	03/11/21 10:30	03/12/21 08:30	
180-118398-1	WGWC-15	Water	03/12/21 11:57	03/13/21 09:00	
180-118398-2	WGWC-10	Water	03/11/21 16:25	03/13/21 09:00	
180-118398-3	WGWC-11	Water	03/12/21 11:54	03/13/21 09:00	
180-118398-4	WGWC-13	Water	03/11/21 13:53	03/13/21 09:00	
180-118398-5	WGWC-14A	Water	03/11/21 15:16	03/13/21 09:00	
180-118398-6	WGWC-9	Water	03/12/21 10:07	03/13/21 09:00	
180-118398-7	WGWC-19	Water	03/11/21 14:55	03/13/21 09:00	
180-118398-8	Dup-2	Water	03/11/21 00:00	03/13/21 09:00	
180-118398-9	FB-2	Water	03/12/21 12:05	03/13/21 09:00	
180-118398-10	WGWC-12	Water	03/12/21 10:59	03/13/21 09:00	

Method Summary

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

Job ID: 180-118348-1

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 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

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: 180-118348-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-118348-1

Date Collected: 03/11/21 09:35

Matrix: Water

Date Received: 03/12/21 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		1			350116	03/21/21 01:22	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 11:28	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349549	03/15/21 13:10	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349927	03/18/21 18:31	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			350921	03/26/21 03:09	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349457	03/11/21 09:35	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-2

Lab Sample ID: 180-118348-2

Date Collected: 03/10/21 08:55

Matrix: Water

Date Received: 03/12/21 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		1			350116	03/21/21 03:27	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 11:47	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349549	03/15/21 13:18	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349759	03/17/21 19:05	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			350921	03/25/21 19:38	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349457	03/10/21 08:55	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3

Lab Sample ID: 180-118348-3

Date Collected: 03/10/21 10:54

Matrix: Water

Date Received: 03/12/21 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		1			350116	03/21/21 03:45	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 11:50	RJR	TAL PIT
Instrument ID: NEMO										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-118348-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-118348-3

Date Collected: 03/10/21 10:54

Matrix: Water

Date Received: 03/12/21 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	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349549	03/15/21 13:21	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349759	03/17/21 19:05	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			350921	03/25/21 19:47	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349457	03/10/21 10:54	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-4

Lab Sample ID: 180-118348-4

Date Collected: 03/10/21 12:17

Matrix: Water

Date Received: 03/12/21 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		1			350116	03/21/21 04:03	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 11:53	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349549	03/15/21 13:24	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349759	03/17/21 19:05	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			350921	03/25/21 19:55	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349457	03/10/21 12:17	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 180-118348-5

Date Collected: 03/10/21 17:05

Matrix: Water

Date Received: 03/12/21 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		1			350116	03/21/21 04:21	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 11:55	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349549	03/15/21 13:26	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349759	03/17/21 19:05	KMM	TAL PIT
Instrument ID: NOEQUIP										

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Lab Chronicle

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

Job ID: 180-118348-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-118348-5

Date Collected: 03/10/21 17:05

Matrix: Water

Date Received: 03/12/21 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	SM2320 B		1			350921	03/25/21 20:05	REI	TAL PIT
Total/NA	Analysis	Field Sampling		1			349457	03/10/21 17:05	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-6

Lab Sample ID: 180-118348-6

Date Collected: 03/11/21 10:58

Matrix: Water

Date Received: 03/12/21 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		1			350116	03/21/21 04:39	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 11:58	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349549	03/15/21 13:29	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349927	03/18/21 18:31	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			350921	03/26/21 03:18	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349457	03/11/21 10:58	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Lab Sample ID: 180-118348-7

Date Collected: 03/10/21 13:45

Matrix: Water

Date Received: 03/12/21 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		1			350116	03/21/21 06:26	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 12:01	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349549	03/15/21 13:37	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349759	03/17/21 19:05	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			350921	03/25/21 20:14	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349457	03/10/21 13:45	FDS	TAL PIT
Instrument ID: NOEQUIP										

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Lab Chronicle

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

Job ID: 180-118348-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-118348-8

Date Collected: 03/10/21 15:42

Matrix: Water

Date Received: 03/12/21 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: INTEGRION		1			350116	03/21/21 06:44	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			350467	03/23/21 12:04	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			349549	03/15/21 13:40	CMR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	350091	03/19/21 19:08	KMM	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			350921	03/25/21 20:43	REI	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			349457	03/10/21 15:42	FDS	TAL PIT

Client Sample ID: WGWC-8

Lab Sample ID: 180-118348-9

Date Collected: 03/11/21 12:12

Matrix: Water

Date Received: 03/12/21 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: INTEGRION		1			350116	03/21/21 02:51	SAT	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		5			350116	03/21/21 03:09	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			350467	03/23/21 12:21	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			350601	03/24/21 11:38	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			349549	03/15/21 13:43	CMR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	349927	03/18/21 18:31	KMM	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			350921	03/26/21 03:28	REI	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			349457	03/11/21 12:12	FDS	TAL PIT

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Lab Chronicle

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

Job ID: 180-118348-1

Client Sample ID: Dup-1
Date Collected: 03/10/21 00:00
Date Received: 03/12/21 08:30

Lab Sample ID: 180-118348-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			350116	03/21/21 04:57	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			350467	03/23/21 12:29	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			349549	03/15/21 13:45	CMR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	349921	03/18/21 17:41	KMM	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			350921	03/25/21 21:01	REI	TAL PIT

Client Sample ID: WGWC-16
Date Collected: 03/11/21 13:47
Date Received: 03/12/21 08:30

Lab Sample ID: 180-118348-11
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 Instrument ID: INTEGRION		1			350116	03/21/21 07:02	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			350467	03/23/21 12:32	RJR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			350601	03/24/21 11:43	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			349549	03/15/21 13:48	CMR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	349927	03/18/21 18:31	KMM	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			350921	03/26/21 03:37	REI	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			349457	03/11/21 13:47	FDS	TAL PIT

Client Sample ID: WGWC-17
Date Collected: 03/11/21 12:10
Date Received: 03/12/21 08:30

Lab Sample ID: 180-118348-12
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 Instrument ID: INTEGRION		1			350116	03/21/21 07:19	SAT	TAL PIT

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Lab Chronicle

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

Job ID: 180-118348-1

Client Sample ID: WGWC-17

Lab Sample ID: 180-118348-12

Date Collected: 03/11/21 12:10

Matrix: Water

Date Received: 03/12/21 08:30

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	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 12:34	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349549	03/15/21 13:51	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349927	03/18/21 18:31	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			350921	03/26/21 03:46	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349457	03/11/21 12:10	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-1

Lab Sample ID: 180-118348-13

Date Collected: 03/11/21 11:00

Matrix: Water

Date Received: 03/12/21 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		1			350116	03/21/21 07:37	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 12:12	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349549	03/15/21 13:53	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349921	03/18/21 17:41	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			350921	03/26/21 04:13	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: EB-2

Lab Sample ID: 180-118348-14

Date Collected: 03/11/21 13:55

Matrix: Water

Date Received: 03/12/21 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		1			350116	03/21/21 07:55	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 12:15	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349549	03/15/21 13:56	CMR	TAL PIT
Instrument ID: NOEQUIP										

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Lab Chronicle

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

Job ID: 180-118348-1

Client Sample ID: EB-2

Date Collected: 03/11/21 13:55

Date Received: 03/12/21 08:30

Lab Sample ID: 180-118348-14

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	SM 2540C		1	100 mL	100 mL	349921	03/18/21 17:41	KMM	TAL PIT
Total/NA	Analysis	SM2320 B		1			350921	03/26/21 04:29	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: FB-1

Date Collected: 03/11/21 10:30

Date Received: 03/12/21 08:30

Lab Sample ID: 180-118348-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			350116	03/21/21 08:13	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	350102	03/20/21 21:24	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			350467	03/23/21 12:18	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349549	03/15/21 13:59	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349921	03/18/21 17:41	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			350993	03/26/21 17:39	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: WGWC-15

Date Collected: 03/12/21 11:57

Date Received: 03/13/21 09:00

Lab Sample ID: 180-118398-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			350369	03/23/21 11:40	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	350579	03/24/21 11:35	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			351150	03/29/21 18:41	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349551	03/15/21 15:01	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	350089	03/19/21 19:01	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			351516	03/30/21 18:05	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349457	03/12/21 11:57	FDS	TAL PIT
Instrument ID: NOEQUIP										

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Lab Chronicle

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

Job ID: 180-118348-1

Client Sample ID: WGWC-10

Lab Sample ID: 180-118398-2

Date Collected: 03/11/21 16:25

Matrix: Water

Date Received: 03/13/21 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			350369	03/23/21 12:29	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	352257	04/07/21 13:55	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: DORY		1			352526	04/08/21 09:13	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350579	03/24/21 11:35	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			351150	03/29/21 18:44	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			349551	03/15/21 15:04	CMR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	349926	03/18/21 18:22	KMM	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			350921	03/26/21 08:26	REI	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			349457	03/11/21 16:25	FDS	TAL PIT

Client Sample ID: WGWC-11

Lab Sample ID: 180-118398-3

Date Collected: 03/12/21 11:54

Matrix: Water

Date Received: 03/13/21 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			350369	03/23/21 12:45	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350579	03/24/21 11:35	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			351150	03/29/21 18:47	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			349551	03/15/21 15:06	CMR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	350089	03/19/21 19:01	KMM	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			351516	03/30/21 18:14	REI	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			349457	03/12/21 11:54	FDS	TAL PIT

Client Sample ID: WGWC-13

Lab Sample ID: 180-118398-4

Date Collected: 03/11/21 13:53

Matrix: Water

Date Received: 03/13/21 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			350369	03/23/21 13:01	SAT	TAL PIT

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Lab Chronicle

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

Job ID: 180-118348-1

Client Sample ID: WGWC-13

Lab Sample ID: 180-118398-4

Date Collected: 03/11/21 13:53

Matrix: Water

Date Received: 03/13/21 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	350579	03/24/21 11:35	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			351150	03/29/21 18:50	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349551	03/15/21 15:09	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349926	03/18/21 18:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			350921	03/26/21 08:34	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349457	03/11/21 13:53	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-14A

Lab Sample ID: 180-118398-5

Date Collected: 03/11/21 15:16

Matrix: Water

Date Received: 03/13/21 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			350369	03/23/21 13:18	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	350579	03/24/21 11:35	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			351150	03/29/21 18:52	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349551	03/15/21 15:12	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349926	03/18/21 18:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			350921	03/26/21 08:44	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349457	03/11/21 15:16	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-9

Lab Sample ID: 180-118398-6

Date Collected: 03/12/21 10:07

Matrix: Water

Date Received: 03/13/21 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			350369	03/23/21 13:34	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	350579	03/24/21 11:35	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			351150	03/29/21 18:55	RJR	TAL PIT
Instrument ID: NEMO										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-118348-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-118398-6

Date Collected: 03/12/21 10:07

Matrix: Water

Date Received: 03/13/21 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	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349551	03/15/21 15:15	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	350089	03/19/21 19:01	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			351516	03/30/21 18:23	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349457	03/12/21 10:07	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-19

Lab Sample ID: 180-118398-7

Date Collected: 03/11/21 14:55

Matrix: Water

Date Received: 03/13/21 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			350369	03/23/21 14:23	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	350579	03/24/21 11:35	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			351150	03/29/21 18:58	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349551	03/15/21 15:18	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349926	03/18/21 18:22	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			350921	03/26/21 08:53	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349457	03/11/21 14:55	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: Dup-2

Lab Sample ID: 180-118398-8

Date Collected: 03/11/21 00:00

Matrix: Water

Date Received: 03/13/21 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			350369	03/23/21 14:39	SAT	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	350579	03/24/21 11:35	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			351150	03/29/21 19:06	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349551	03/15/21 15:21	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349926	03/18/21 18:22	KMM	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-118348-1

Client Sample ID: Dup-2
Date Collected: 03/11/21 00:00
Date Received: 03/13/21 09:00

Lab Sample ID: 180-118398-8
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	SM2320 B		1			350921	03/26/21 09:02	REI	TAL PIT

Client Sample ID: FB-2
Date Collected: 03/12/21 12:05
Date Received: 03/13/21 09:00

Lab Sample ID: 180-118398-9
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 Instrument ID: CHICS2100B		1			350369	03/23/21 14:56	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350579	03/24/21 11:35	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			351150	03/29/21 19:09	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	349716	03/17/21 14:00	CMR	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			349871	03/17/21 15:47	CMR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	350089	03/19/21 19:01	KMM	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			351516	03/30/21 18:31	REI	TAL PIT

Client Sample ID: WGWC-12
Date Collected: 03/12/21 10:59
Date Received: 03/13/21 09:00

Lab Sample ID: 180-118398-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			350369	03/23/21 15:12	SAT	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	350579	03/24/21 11:35	TJO	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			351150	03/29/21 19:12	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	349716	03/17/21 14:00	CMR	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			349871	03/17/21 15:56	CMR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	350089	03/19/21 19:01	KMM	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			351516	03/30/21 18:40	REI	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			349457	03/12/21 10:59	FDS	TAL PIT

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-118348-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

CMR = Carl Reagle

KEM = Kimberly Mahoney

TJO = Tyler Oliver

Batch Type: Analysis

CMR = Carl Reagle

FDS = Sampler Field

KMM = Kendric Moore

REI = Rachel Innocenzi

RJR = Ron Rosenbaum

RSK = Robert Kurtz

SAT = Stephen Tallam



Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-118348-1

Date Collected: 03/11/21 09:35

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.5		1.0	0.71	mg/L			03/21/21 01:22	1
Fluoride	<0.026		0.10	0.026	mg/L			03/21/21 01:22	1
Sulfate	<0.76		1.0	0.76	mg/L			03/21/21 01:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 11:28	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 11:28	1
Barium	0.046		0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 11:28	1
Beryllium	0.00029	J	0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 11:28	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 11:28	1
Calcium	1.3		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 11:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 11:28	1
Cobalt	0.00081	J	0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 11:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 11:28	1
Lithium	0.0039	J	0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 11:28	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 11:28	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:24	03/23/21 11:28	1
Thallium	0.00045	J	0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 11:28	1
Sodium	3.3		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 11:28	1
Potassium	1.1		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 11:28	1
Iron	<0.020		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 11:28	1
Magnesium	1.2		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 11:28	1
Manganese	0.011		0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 11:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:10	1
Total Dissolved Solids	24		10	10	mg/L			03/18/21 18:31	1
Total Alkalinity as CaCO3 to pH 4.5	7.8	H	5.0	5.0	mg/L			03/26/21 03:09	1
Bicarbonate Alkalinity as CaCO3	7.8	H	5.0	5.0	mg/L			03/26/21 03:09	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.26				SU			03/11/21 09:35	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWA-2

Lab Sample ID: 180-118348-2

Date Collected: 03/10/21 08:55

Matrix: Water

Date Received: 03/12/21 08:30

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	0.71	mg/L			03/21/21 03:27	1
Fluoride	0.045	J	0.10	0.026	mg/L			03/21/21 03:27	1
Sulfate	0.90	J	1.0	0.76	mg/L			03/21/21 03:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 11:47	1
Arsenic	0.00063	J	0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 11:47	1
Barium	0.024		0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 11:47	1
Beryllium	0.00065	J	0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 11:47	1
Boron	0.039	J	0.080	0.039	mg/L		03/20/21 21:24	03/23/21 11:47	1
Calcium	11		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 11:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 11:47	1
Cobalt	0.00073	J	0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 11:47	1
Lead	0.00019	J	0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 11:47	1
Lithium	0.0075		0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 11:47	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 11:47	1
Selenium	<0.0015	^+	0.0050	0.0015	mg/L		03/20/21 21:24	03/23/21 11:47	1
Thallium	0.00073	J	0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 11:47	1
Sodium	9.2		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 11:47	1
Potassium	2.3		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 11:47	1
Iron	<0.020		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 11:47	1
Magnesium	4.2		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 11:47	1
Manganese	0.032		0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:18	1
Total Dissolved Solids	100		10	10	mg/L			03/17/21 19:05	1
Total Alkalinity as CaCO3 to pH 4.5	61	H	5.0	5.0	mg/L			03/25/21 19:38	1
Bicarbonate Alkalinity as CaCO3	61	H	5.0	5.0	mg/L			03/25/21 19:38	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.11				SU			03/10/21 08:55	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-118348-3

Date Collected: 03/10/21 10:54

Matrix: Water

Date Received: 03/12/21 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	0.71	mg/L			03/21/21 03:45	1
Fluoride	<0.026		0.10	0.026	mg/L			03/21/21 03:45	1
Sulfate	0.91	J	1.0	0.76	mg/L			03/21/21 03:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 11:50	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 11:50	1
Barium	0.014		0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 11:50	1
Beryllium	0.00019	J	0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 11:50	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 11:50	1
Calcium	1.9		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 11:50	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 11:50	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 11:50	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 11:50	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 11:50	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 11:50	1
Selenium	<0.0015	^+	0.0050	0.0015	mg/L		03/20/21 21:24	03/23/21 11:50	1
Thallium	0.00028	J	0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 11:50	1
Sodium	2.6		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 11:50	1
Potassium	1.2		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 11:50	1
Iron	<0.020		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 11:50	1
Magnesium	1.1		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 11:50	1
Manganese	0.00099	J	0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:21	1
Total Dissolved Solids	20		10	10	mg/L			03/17/21 19:05	1
Total Alkalinity as CaCO3 to pH 4.5	11	H	5.0	5.0	mg/L			03/25/21 19:47	1
Bicarbonate Alkalinity as CaCO3	11	H	5.0	5.0	mg/L			03/25/21 19:47	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.49				SU			03/10/21 10:54	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWA-4

Lab Sample ID: 180-118348-4

Date Collected: 03/10/21 12:17

Matrix: Water

Date Received: 03/12/21 08:30

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	0.71	mg/L			03/21/21 04:03	1
Fluoride	0.12		0.10	0.026	mg/L			03/21/21 04:03	1
Sulfate	8.1		1.0	0.76	mg/L			03/21/21 04:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 11:53	1
Arsenic	0.00036	J	0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 11:53	1
Barium	0.0057	J	0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 11:53	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 11:53	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 11:53	1
Calcium	16		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 11:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 11:53	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 11:53	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 11:53	1
Lithium	0.0049	J	0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 11:53	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 11:53	1
Selenium	<0.0015	^+	0.0050	0.0015	mg/L		03/20/21 21:24	03/23/21 11:53	1
Thallium	0.00017	J	0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 11:53	1
Sodium	7.2		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 11:53	1
Potassium	2.5		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 11:53	1
Iron	1.2		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 11:53	1
Magnesium	2.5		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 11:53	1
Manganese	0.16		0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:24	1
Total Dissolved Solids	100		10	10	mg/L			03/17/21 19:05	1
Total Alkalinity as CaCO3 to pH 4.5	61	H	5.0	5.0	mg/L			03/25/21 19:55	1
Bicarbonate Alkalinity as CaCO3	61	H	5.0	5.0	mg/L			03/25/21 19:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.19				SU			03/10/21 12:17	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-118348-5

Date Collected: 03/10/21 17:05

Matrix: Water

Date Received: 03/12/21 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	0.71	mg/L			03/21/21 04:21	1
Fluoride	<0.026		0.10	0.026	mg/L			03/21/21 04:21	1
Sulfate	<0.76		1.0	0.76	mg/L			03/21/21 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 11:55	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 11:55	1
Barium	0.016		0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 11:55	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 11:55	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 11:55	1
Calcium	1.3		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 11:55	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 11:55	1
Cobalt	0.0011	J	0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 11:55	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 11:55	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 11:55	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 11:55	1
Selenium	<0.0015	^+	0.0050	0.0015	mg/L		03/20/21 21:24	03/23/21 11:55	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 11:55	1
Sodium	1.5		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 11:55	1
Potassium	1.0		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 11:55	1
Iron	0.26		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 11:55	1
Magnesium	0.80		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 11:55	1
Manganese	0.0071		0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:26	1
Total Dissolved Solids	19		10	10	mg/L			03/17/21 19:05	1
Total Alkalinity as CaCO3 to pH 4.5	7.6	H	5.0	5.0	mg/L			03/25/21 20:05	1
Bicarbonate Alkalinity as CaCO3	7.6	H	5.0	5.0	mg/L			03/25/21 20:05	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.22				SU			03/10/21 17:05	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWA-6

Lab Sample ID: 180-118348-6

Date Collected: 03/11/21 10:58

Matrix: Water

Date Received: 03/12/21 08:30

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	0.71	mg/L			03/21/21 04:39	1
Fluoride	0.092	J	0.10	0.026	mg/L			03/21/21 04:39	1
Sulfate	8.4		1.0	0.76	mg/L			03/21/21 04:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 11:58	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 11:58	1
Barium	0.0077	J	0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 11:58	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 11:58	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 11:58	1
Calcium	26		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 11:58	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 11:58	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 11:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 11:58	1
Lithium	0.0050		0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 11:58	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 11:58	1
Selenium	<0.0015	^+	0.0050	0.0015	mg/L		03/20/21 21:24	03/23/21 11:58	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 11:58	1
Sodium	5.2		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 11:58	1
Potassium	2.8		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 11:58	1
Iron	0.25		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 11:58	1
Magnesium	2.1		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 11:58	1
Manganese	0.13		0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:29	1
Total Dissolved Solids	110		10	10	mg/L			03/18/21 18:31	1
Total Alkalinity as CaCO3 to pH 4.5	86	H	5.0	5.0	mg/L			03/26/21 03:18	1
Bicarbonate Alkalinity as CaCO3	86	H	5.0	5.0	mg/L			03/26/21 03:18	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.93				SU			03/11/21 10:58	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-118348-7

Date Collected: 03/10/21 13:45

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			03/21/21 06:26	1
Fluoride	<0.026		0.10	0.026	mg/L			03/21/21 06:26	1
Sulfate	<0.76		1.0	0.76	mg/L			03/21/21 06:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 12:01	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 12:01	1
Barium	0.011		0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 12:01	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 12:01	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 12:01	1
Calcium	0.89		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 12:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 12:01	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 12:01	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 12:01	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 12:01	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 12:01	1
Selenium	<0.0015	^+	0.0050	0.0015	mg/L		03/20/21 21:24	03/23/21 12:01	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 12:01	1
Sodium	2.4		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 12:01	1
Potassium	0.74		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 12:01	1
Iron	<0.020		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 12:01	1
Magnesium	0.62		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 12:01	1
Manganese	0.0022	J	0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:37	1
Total Dissolved Solids	20		10	10	mg/L			03/17/21 19:05	1
Total Alkalinity as CaCO3 to pH 4.5	7.5	H	5.0	5.0	mg/L			03/25/21 20:14	1
Bicarbonate Alkalinity as CaCO3	7.5	H	5.0	5.0	mg/L			03/25/21 20:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.96				SU			03/10/21 13:45	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-118348-8

Date Collected: 03/10/21 15:42

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			03/21/21 06:44	1
Fluoride	0.046	J	0.10	0.026	mg/L			03/21/21 06:44	1
Sulfate	7.1		1.0	0.76	mg/L			03/21/21 06:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 12:04	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 12:04	1
Barium	0.016		0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 12:04	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 12:04	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 12:04	1
Calcium	7.7		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 12:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 12:04	1
Cobalt	0.0015	J	0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 12:04	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 12:04	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 12:04	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 12:04	1
Selenium	<0.0015	^+	0.0050	0.0015	mg/L		03/20/21 21:24	03/23/21 12:04	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 12:04	1
Sodium	4.7		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 12:04	1
Potassium	2.8		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 12:04	1
Iron	0.28		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 12:04	1
Magnesium	1.2		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 12:04	1
Manganese	0.17		0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:40	1
Total Dissolved Solids	72	H	10	10	mg/L			03/19/21 19:08	1
Total Alkalinity as CaCO3 to pH 4.5	31	H	5.0	5.0	mg/L			03/25/21 20:43	1
Bicarbonate Alkalinity as CaCO3	31	H	5.0	5.0	mg/L			03/25/21 20:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.80				SU			03/10/21 15:42	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-118348-9

Date Collected: 03/11/21 12:12

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		1.0	0.71	mg/L			03/21/21 02:51	1
Fluoride	0.16		0.10	0.026	mg/L			03/21/21 02:51	1
Sulfate	220		5.0	3.8	mg/L			03/21/21 03:09	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 12:21	1
Arsenic	0.00090	J	0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 12:21	1
Barium	<0.0016		0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 12:21	1
Beryllium	0.0022	J	0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 12:21	1
Boron	2.4		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 12:21	1
Calcium	83		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 12:21	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 12:21	1
Cobalt	0.00043	J	0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 12:21	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 12:21	1
Lithium	0.013		0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 12:21	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 12:21	1
Selenium	0.0038	J	0.0050	0.0015	mg/L		03/20/21 21:24	03/24/21 11:38	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 12:21	1
Sodium	40		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 12:21	1
Potassium	8.3		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 12:21	1
Iron	0.041	J	0.050	0.020	mg/L		03/20/21 21:24	03/23/21 12:21	1
Magnesium	21		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 12:21	1
Manganese	0.015		0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:43	1
Total Dissolved Solids	530		10	10	mg/L			03/18/21 18:31	1
Total Alkalinity as CaCO3 to pH 4.5	6.8	H	5.0	5.0	mg/L			03/26/21 03:28	1
Bicarbonate Alkalinity as CaCO3	6.8	H	5.0	5.0	mg/L			03/26/21 03:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.35				SU			03/11/21 12:12	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: Dup-1

Lab Sample ID: 180-118348-10

Date Collected: 03/10/21 00:00

Matrix: Water

Date Received: 03/12/21 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	0.71	mg/L			03/21/21 04:57	1
Fluoride	<0.026		0.10	0.026	mg/L			03/21/21 04:57	1
Sulfate	0.88	J	1.0	0.76	mg/L			03/21/21 04:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 12:29	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 12:29	1
Barium	0.013		0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 12:29	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 12:29	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 12:29	1
Calcium	1.8		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 12:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 12:29	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 12:29	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 12:29	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 12:29	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 12:29	1
Selenium	<0.0015	^+	0.0050	0.0015	mg/L		03/20/21 21:24	03/23/21 12:29	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 12:29	1
Sodium	2.7		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 12:29	1
Potassium	1.2		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 12:29	1
Iron	<0.020		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 12:29	1
Magnesium	1.1		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 12:29	1
Manganese	0.0012	J	0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:45	1
Total Dissolved Solids	29	H	10	10	mg/L			03/18/21 17:41	1
Total Alkalinity as CaCO3 to pH 4.5	11	H	5.0	5.0	mg/L			03/25/21 21:01	1
Bicarbonate Alkalinity as CaCO3	11	H	5.0	5.0	mg/L			03/25/21 21:01	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWC-16

Lab Sample ID: 180-118348-11

Date Collected: 03/11/21 13:47

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49		1.0	0.71	mg/L			03/21/21 07:02	1
Fluoride	0.061	J	0.10	0.026	mg/L			03/21/21 07:02	1
Sulfate	64		1.0	0.76	mg/L			03/21/21 07:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 12:32	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 12:32	1
Barium	0.037		0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 12:32	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 12:32	1
Boron	1.1		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 12:32	1
Calcium	32		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 12:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 12:32	1
Cobalt	0.00013	J	0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 12:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 12:32	1
Lithium	0.0050		0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 12:32	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 12:32	1
Selenium	0.0023	J	0.0050	0.0015	mg/L		03/20/21 21:24	03/24/21 11:43	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 12:32	1
Sodium	13		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 12:32	1
Potassium	2.7		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 12:32	1
Iron	0.093		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 12:32	1
Magnesium	10		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 12:32	1
Manganese	0.045		0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:48	1
Total Dissolved Solids	190		10	10	mg/L			03/18/21 18:31	1
Total Alkalinity as CaCO3 to pH 4.5	8.3	H	5.0	5.0	mg/L			03/26/21 03:37	1
Bicarbonate Alkalinity as CaCO3	8.3	H	5.0	5.0	mg/L			03/26/21 03:37	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.21				SU			03/11/21 13:47	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWC-17

Lab Sample ID: 180-118348-12

Date Collected: 03/11/21 12:10

Matrix: Water

Date Received: 03/12/21 08:30

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	0.71	mg/L			03/21/21 07:19	1
Fluoride	0.050	J	0.10	0.026	mg/L			03/21/21 07:19	1
Sulfate	3.9		1.0	0.76	mg/L			03/21/21 07:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 12:34	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 12:34	1
Barium	0.011		0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 12:34	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 12:34	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 12:34	1
Calcium	5.7		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 12:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 12:34	1
Cobalt	0.00035	J	0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 12:34	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 12:34	1
Lithium	0.0049	J	0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 12:34	1
Molybdenum	0.0022	J	0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 12:34	1
Selenium	<0.0015	^+	0.0050	0.0015	mg/L		03/20/21 21:24	03/23/21 12:34	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 12:34	1
Sodium	9.1		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 12:34	1
Potassium	1.5		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 12:34	1
Iron	0.38		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 12:34	1
Magnesium	3.5		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 12:34	1
Manganese	0.014		0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:51	1
Total Dissolved Solids	75		10	10	mg/L			03/18/21 18:31	1
Total Alkalinity as CaCO3 to pH 4.5	44	H	5.0	5.0	mg/L			03/26/21 03:46	1
Bicarbonate Alkalinity as CaCO3	44	H	5.0	5.0	mg/L			03/26/21 03:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.96				SU			03/11/21 12:10	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: EB-1

Lab Sample ID: 180-118348-13

Date Collected: 03/11/21 11:00

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/21/21 07:37	1
Fluoride	<0.026		0.10	0.026	mg/L			03/21/21 07:37	1
Sulfate	<0.76		1.0	0.76	mg/L			03/21/21 07:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 12:12	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 12:12	1
Barium	<0.0016		0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 12:12	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 12:12	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 12:12	1
Calcium	<0.13		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 12:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 12:12	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 12:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 12:12	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 12:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 12:12	1
Selenium	<0.0015	^+	0.0050	0.0015	mg/L		03/20/21 21:24	03/23/21 12:12	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 12:12	1
Sodium	<0.35		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 12:12	1
Potassium	<0.16		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 12:12	1
Iron	<0.020		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 12:12	1
Magnesium	<0.083		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 12:12	1
Manganese	<0.00087		0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:53	1
Total Dissolved Solids	<10		10	10	mg/L			03/18/21 17:41	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	H	5.0	5.0	mg/L			03/26/21 04:13	1
Bicarbonate Alkalinity as CaCO3	<5.0	H	5.0	5.0	mg/L			03/26/21 04:13	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: EB-2

Lab Sample ID: 180-118348-14

Date Collected: 03/11/21 13:55

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/21/21 07:55	1
Fluoride	<0.026		0.10	0.026	mg/L			03/21/21 07:55	1
Sulfate	<0.76		1.0	0.76	mg/L			03/21/21 07:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 12:15	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 12:15	1
Barium	<0.0016		0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 12:15	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 12:15	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 12:15	1
Calcium	<0.13		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 12:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 12:15	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 12:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 12:15	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 12:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 12:15	1
Selenium	<0.0015	^+	0.0050	0.0015	mg/L		03/20/21 21:24	03/23/21 12:15	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 12:15	1
Sodium	<0.35		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 12:15	1
Potassium	<0.16		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 12:15	1
Iron	<0.020		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 12:15	1
Magnesium	<0.083		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 12:15	1
Manganese	<0.00087		0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:56	1
Total Dissolved Solids	<10		10	10	mg/L			03/18/21 17:41	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	H	5.0	5.0	mg/L			03/26/21 04:29	1
Bicarbonate Alkalinity as CaCO3	<5.0	H	5.0	5.0	mg/L			03/26/21 04:29	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: FB-1

Lab Sample ID: 180-118348-15

Date Collected: 03/11/21 10:30

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/21/21 08:13	1
Fluoride	<0.026		0.10	0.026	mg/L			03/21/21 08:13	1
Sulfate	<0.76		1.0	0.76	mg/L			03/21/21 08:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 12:18	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 12:18	1
Barium	<0.0016		0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 12:18	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 12:18	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 12:18	1
Calcium	<0.13		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 12:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 12:18	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 12:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 12:18	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 12:18	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 12:18	1
Selenium	<0.0015	^+	0.0050	0.0015	mg/L		03/20/21 21:24	03/23/21 12:18	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 12:18	1
Sodium	<0.35		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 12:18	1
Potassium	<0.16		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 12:18	1
Iron	<0.020		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 12:18	1
Magnesium	<0.083		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 12:18	1
Manganese	<0.00087		0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:59	1
Total Dissolved Solids	<10		10	10	mg/L			03/18/21 17:41	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	H	5.0	5.0	mg/L			03/26/21 17:39	1
Bicarbonate Alkalinity as CaCO3	<5.0	H	5.0	5.0	mg/L			03/26/21 17:39	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWC-15

Lab Sample ID: 180-118398-1

Date Collected: 03/12/21 11:57

Matrix: Water

Date Received: 03/13/21 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	0.71	mg/L			03/23/21 11:40	1
Fluoride	0.88		0.10	0.026	mg/L			03/23/21 11:40	1
Sulfate	19		1.0	0.76	mg/L			03/23/21 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/24/21 11:35	03/29/21 18:41	1
Arsenic	0.00084	J	0.0010	0.00031	mg/L		03/24/21 11:35	03/29/21 18:41	1
Barium	0.028		0.010	0.0016	mg/L		03/24/21 11:35	03/29/21 18:41	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/24/21 11:35	03/29/21 18:41	1
Boron	<0.039		0.080	0.039	mg/L		03/24/21 11:35	03/29/21 18:41	1
Calcium	31		0.50	0.13	mg/L		03/24/21 11:35	03/29/21 18:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/24/21 11:35	03/29/21 18:41	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/24/21 11:35	03/29/21 18:41	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/24/21 11:35	03/29/21 18:41	1
Lithium	0.0096		0.0050	0.0034	mg/L		03/24/21 11:35	03/29/21 18:41	1
Molybdenum	0.0019	J	0.015	0.00061	mg/L		03/24/21 11:35	03/29/21 18:41	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/24/21 11:35	03/29/21 18:41	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/24/21 11:35	03/29/21 18:41	1
Sodium	13		0.50	0.35	mg/L		03/24/21 11:35	03/29/21 18:41	1
Potassium	1.4		0.50	0.16	mg/L		03/24/21 11:35	03/29/21 18:41	1
Iron	0.032	J	0.050	0.020	mg/L		03/24/21 11:35	03/29/21 18:41	1
Magnesium	5.1		0.50	0.083	mg/L		03/24/21 11:35	03/29/21 18:41	1
Manganese	0.013		0.0050	0.00087	mg/L		03/24/21 11:35	03/29/21 18:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 15:01	1
Total Dissolved Solids	130		10	10	mg/L			03/19/21 19:01	1
Total Alkalinity as CaCO3 to pH 4.5	99	H	5.0	5.0	mg/L			03/30/21 18:05	1
Bicarbonate Alkalinity as CaCO3	99	H	5.0	5.0	mg/L			03/30/21 18:05	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.72				SU			03/12/21 11:57	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWC-10

Lab Sample ID: 180-118398-2

Date Collected: 03/11/21 16:25

Matrix: Water

Date Received: 03/13/21 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	0.71	mg/L			03/23/21 12:29	1
Fluoride	0.15		0.10	0.026	mg/L			03/23/21 12:29	1
Sulfate	2.8		1.0	0.76	mg/L			03/23/21 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/07/21 13:55	04/08/21 09:13	1
Arsenic	0.00031	J	0.0010	0.00031	mg/L		04/07/21 13:55	04/08/21 09:13	1
Barium	0.033		0.010	0.0016	mg/L		04/07/21 13:55	04/08/21 09:13	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/07/21 13:55	04/08/21 09:13	1
Boron	<0.039		0.080	0.039	mg/L		03/24/21 11:35	03/29/21 18:44	1
Calcium	7.9		0.50	0.13	mg/L		04/07/21 13:55	04/08/21 09:13	1
Chromium	0.0023		0.0020	0.0015	mg/L		04/07/21 13:55	04/08/21 09:13	1
Cobalt	0.00058	J	0.0025	0.00013	mg/L		04/07/21 13:55	04/08/21 09:13	1
Lead	0.00032	J	0.0010	0.00013	mg/L		04/07/21 13:55	04/08/21 09:13	1
Lithium	0.0051		0.0050	0.0034	mg/L		04/07/21 13:55	04/08/21 09:13	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/07/21 13:55	04/08/21 09:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/07/21 13:55	04/08/21 09:13	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/24/21 11:35	03/29/21 18:44	1
Sodium	3.4		0.50	0.35	mg/L		04/07/21 13:55	04/08/21 09:13	1
Potassium	1.9		0.50	0.16	mg/L		04/07/21 13:55	04/08/21 09:13	1
Iron	<0.020		0.050	0.020	mg/L		04/07/21 13:55	04/08/21 09:13	1
Magnesium	1.9		0.50	0.083	mg/L		04/07/21 13:55	04/08/21 09:13	1
Manganese	0.055		0.0050	0.00087	mg/L		04/07/21 13:55	04/08/21 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 15:04	1
Total Dissolved Solids	52		10	10	mg/L			03/18/21 18:22	1
Total Alkalinity as CaCO3 to pH 4.5	32	H	5.0	5.0	mg/L			03/26/21 08:26	1
Bicarbonate Alkalinity as CaCO3	32	H	5.0	5.0	mg/L			03/26/21 08:26	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.56				SU			03/11/21 16:25	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWC-11

Lab Sample ID: 180-118398-3

Date Collected: 03/12/21 11:54

Matrix: Water

Date Received: 03/13/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.6		1.0	0.71	mg/L			03/23/21 12:45	1
Fluoride	0.044	J	0.10	0.026	mg/L			03/23/21 12:45	1
Sulfate	2.0		1.0	0.76	mg/L			03/23/21 12:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/24/21 11:35	03/29/21 18:47	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/24/21 11:35	03/29/21 18:47	1
Barium	0.045		0.010	0.0016	mg/L		03/24/21 11:35	03/29/21 18:47	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/24/21 11:35	03/29/21 18:47	1
Boron	<0.039		0.080	0.039	mg/L		03/24/21 11:35	03/29/21 18:47	1
Calcium	1.6		0.50	0.13	mg/L		03/24/21 11:35	03/29/21 18:47	1
Chromium	0.0017	J	0.0020	0.0015	mg/L		03/24/21 11:35	03/29/21 18:47	1
Cobalt	0.0022	J	0.0025	0.00013	mg/L		03/24/21 11:35	03/29/21 18:47	1
Lead	0.00038	J	0.0010	0.00013	mg/L		03/24/21 11:35	03/29/21 18:47	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/24/21 11:35	03/29/21 18:47	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/24/21 11:35	03/29/21 18:47	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/24/21 11:35	03/29/21 18:47	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/24/21 11:35	03/29/21 18:47	1
Sodium	3.6		0.50	0.35	mg/L		03/24/21 11:35	03/29/21 18:47	1
Potassium	1.2		0.50	0.16	mg/L		03/24/21 11:35	03/29/21 18:47	1
Iron	0.55		0.050	0.020	mg/L		03/24/21 11:35	03/29/21 18:47	1
Magnesium	1.4		0.50	0.083	mg/L		03/24/21 11:35	03/29/21 18:47	1
Manganese	0.10		0.0050	0.00087	mg/L		03/24/21 11:35	03/29/21 18:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 15:06	1
Total Dissolved Solids	27		10	10	mg/L			03/19/21 19:01	1
Total Alkalinity as CaCO3 to pH 4.5	9.7	H	5.0	5.0	mg/L			03/30/21 18:14	1
Bicarbonate Alkalinity as CaCO3	9.7	H	5.0	5.0	mg/L			03/30/21 18:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.46				SU			03/12/21 11:54	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWC-13

Lab Sample ID: 180-118398-4

Date Collected: 03/11/21 13:53

Matrix: Water

Date Received: 03/13/21 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	0.71	mg/L			03/23/21 13:01	1
Fluoride	0.18		0.10	0.026	mg/L			03/23/21 13:01	1
Sulfate	2.9		1.0	0.76	mg/L			03/23/21 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/24/21 11:35	03/29/21 18:50	1
Arsenic	0.00035	J	0.0010	0.00031	mg/L		03/24/21 11:35	03/29/21 18:50	1
Barium	0.049		0.010	0.0016	mg/L		03/24/21 11:35	03/29/21 18:50	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/24/21 11:35	03/29/21 18:50	1
Boron	<0.039		0.080	0.039	mg/L		03/24/21 11:35	03/29/21 18:50	1
Calcium	4.0		0.50	0.13	mg/L		03/24/21 11:35	03/29/21 18:50	1
Chromium	0.0019	J	0.0020	0.0015	mg/L		03/24/21 11:35	03/29/21 18:50	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/24/21 11:35	03/29/21 18:50	1
Lead	0.00075	J	0.0010	0.00013	mg/L		03/24/21 11:35	03/29/21 18:50	1
Lithium	0.0037	J	0.0050	0.0034	mg/L		03/24/21 11:35	03/29/21 18:50	1
Molybdenum	0.0013	J	0.015	0.00061	mg/L		03/24/21 11:35	03/29/21 18:50	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/24/21 11:35	03/29/21 18:50	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/24/21 11:35	03/29/21 18:50	1
Sodium	10		0.50	0.35	mg/L		03/24/21 11:35	03/29/21 18:50	1
Potassium	1.8		0.50	0.16	mg/L		03/24/21 11:35	03/29/21 18:50	1
Iron	0.22		0.050	0.020	mg/L		03/24/21 11:35	03/29/21 18:50	1
Magnesium	0.59		0.50	0.083	mg/L		03/24/21 11:35	03/29/21 18:50	1
Manganese	0.0074		0.0050	0.00087	mg/L		03/24/21 11:35	03/29/21 18:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 15:09	1
Total Dissolved Solids	63		10	10	mg/L			03/18/21 18:22	1
Total Alkalinity as CaCO3 to pH 4.5	33	H	5.0	5.0	mg/L			03/26/21 08:34	1
Bicarbonate Alkalinity as CaCO3	33	H	5.0	5.0	mg/L			03/26/21 08:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.95				SU			03/11/21 13:53	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-118398-5

Date Collected: 03/11/21 15:16

Matrix: Water

Date Received: 03/13/21 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	0.71	mg/L			03/23/21 13:18	1
Fluoride	0.040	J	0.10	0.026	mg/L			03/23/21 13:18	1
Sulfate	1.7		1.0	0.76	mg/L			03/23/21 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/24/21 11:35	03/29/21 18:52	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/24/21 11:35	03/29/21 18:52	1
Barium	0.032		0.010	0.0016	mg/L		03/24/21 11:35	03/29/21 18:52	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/24/21 11:35	03/29/21 18:52	1
Boron	<0.039		0.080	0.039	mg/L		03/24/21 11:35	03/29/21 18:52	1
Calcium	0.79		0.50	0.13	mg/L		03/24/21 11:35	03/29/21 18:52	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/24/21 11:35	03/29/21 18:52	1
Cobalt	0.0037		0.0025	0.00013	mg/L		03/24/21 11:35	03/29/21 18:52	1
Lead	0.00031	J	0.0010	0.00013	mg/L		03/24/21 11:35	03/29/21 18:52	1
Lithium	0.0035	J	0.0050	0.0034	mg/L		03/24/21 11:35	03/29/21 18:52	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/24/21 11:35	03/29/21 18:52	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/24/21 11:35	03/29/21 18:52	1
Thallium	0.00019	J	0.0010	0.00015	mg/L		03/24/21 11:35	03/29/21 18:52	1
Sodium	5.5		0.50	0.35	mg/L		03/24/21 11:35	03/29/21 18:52	1
Potassium	1.8		0.50	0.16	mg/L		03/24/21 11:35	03/29/21 18:52	1
Iron	0.037	J	0.050	0.020	mg/L		03/24/21 11:35	03/29/21 18:52	1
Magnesium	0.79		0.50	0.083	mg/L		03/24/21 11:35	03/29/21 18:52	1
Manganese	0.092		0.0050	0.00087	mg/L		03/24/21 11:35	03/29/21 18:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 15:12	1
Total Dissolved Solids	24		10	10	mg/L			03/18/21 18:22	1
Total Alkalinity as CaCO3 to pH 4.5	32	H	5.0	5.0	mg/L			03/26/21 08:44	1
Bicarbonate Alkalinity as CaCO3	32	H	5.0	5.0	mg/L			03/26/21 08:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.10				SU			03/11/21 15:16	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-118398-6

Date Collected: 03/12/21 10:07

Matrix: Water

Date Received: 03/13/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.4		1.0	0.71	mg/L			03/23/21 13:34	1
Fluoride	0.98		0.10	0.026	mg/L			03/23/21 13:34	1
Sulfate	62		1.0	0.76	mg/L			03/23/21 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/24/21 11:35	03/29/21 18:55	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/24/21 11:35	03/29/21 18:55	1
Barium	<0.0016		0.010	0.0016	mg/L		03/24/21 11:35	03/29/21 18:55	1
Beryllium	0.00034	J	0.0025	0.00018	mg/L		03/24/21 11:35	03/29/21 18:55	1
Boron	0.64		0.080	0.039	mg/L		03/24/21 11:35	03/29/21 18:55	1
Calcium	11		0.50	0.13	mg/L		03/24/21 11:35	03/29/21 18:55	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/24/21 11:35	03/29/21 18:55	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/24/21 11:35	03/29/21 18:55	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/24/21 11:35	03/29/21 18:55	1
Lithium	0.034		0.0050	0.0034	mg/L		03/24/21 11:35	03/29/21 18:55	1
Molybdenum	0.0030	J	0.015	0.00061	mg/L		03/24/21 11:35	03/29/21 18:55	1
Selenium	0.0034	J	0.0050	0.0015	mg/L		03/24/21 11:35	03/29/21 18:55	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/24/21 11:35	03/29/21 18:55	1
Sodium	26		0.50	0.35	mg/L		03/24/21 11:35	03/29/21 18:55	1
Potassium	1.3		0.50	0.16	mg/L		03/24/21 11:35	03/29/21 18:55	1
Iron	<0.020		0.050	0.020	mg/L		03/24/21 11:35	03/29/21 18:55	1
Magnesium	3.1		0.50	0.083	mg/L		03/24/21 11:35	03/29/21 18:55	1
Manganese	0.0069		0.0050	0.00087	mg/L		03/24/21 11:35	03/29/21 18:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 15:15	1
Total Dissolved Solids	130		10	10	mg/L			03/19/21 19:01	1
Total Alkalinity as CaCO3 to pH 4.5	38	H	5.0	5.0	mg/L			03/30/21 18:23	1
Bicarbonate Alkalinity as CaCO3	38	H	5.0	5.0	mg/L			03/30/21 18:23	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.88				SU			03/12/21 10:07	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-118398-7

Date Collected: 03/11/21 14:55

Matrix: Water

Date Received: 03/13/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			03/23/21 14:23	1
Fluoride	0.31		0.10	0.026	mg/L			03/23/21 14:23	1
Sulfate	4.0		1.0	0.76	mg/L			03/23/21 14:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/24/21 11:35	03/29/21 18:58	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/24/21 11:35	03/29/21 18:58	1
Barium	<0.0016		0.010	0.0016	mg/L		03/24/21 11:35	03/29/21 18:58	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/24/21 11:35	03/29/21 18:58	1
Boron	<0.039		0.080	0.039	mg/L		03/24/21 11:35	03/29/21 18:58	1
Calcium	15		0.50	0.13	mg/L		03/24/21 11:35	03/29/21 18:58	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/24/21 11:35	03/29/21 18:58	1
Cobalt	0.00022	J	0.0025	0.00013	mg/L		03/24/21 11:35	03/29/21 18:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/24/21 11:35	03/29/21 18:58	1
Lithium	0.051		0.0050	0.0034	mg/L		03/24/21 11:35	03/29/21 18:58	1
Molybdenum	0.0012	J	0.015	0.00061	mg/L		03/24/21 11:35	03/29/21 18:58	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/24/21 11:35	03/29/21 18:58	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/24/21 11:35	03/29/21 18:58	1
Sodium	8.4		0.50	0.35	mg/L		03/24/21 11:35	03/29/21 18:58	1
Potassium	1.4		0.50	0.16	mg/L		03/24/21 11:35	03/29/21 18:58	1
Iron	0.053		0.050	0.020	mg/L		03/24/21 11:35	03/29/21 18:58	1
Magnesium	11		0.50	0.083	mg/L		03/24/21 11:35	03/29/21 18:58	1
Manganese	0.020		0.0050	0.00087	mg/L		03/24/21 11:35	03/29/21 18:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 15:18	1
Total Dissolved Solids	100		10	10	mg/L			03/18/21 18:22	1
Total Alkalinity as CaCO3 to pH 4.5	88	H	5.0	5.0	mg/L			03/26/21 08:53	1
Bicarbonate Alkalinity as CaCO3	88	H	5.0	5.0	mg/L			03/26/21 08:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.12				SU			03/11/21 14:55	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: Dup-2
Date Collected: 03/11/21 00:00
Date Received: 03/13/21 09:00

Lab Sample ID: 180-118398-8
Matrix: Water

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	0.71	mg/L			03/23/21 14:39	1
Fluoride	0.31		0.10	0.026	mg/L			03/23/21 14:39	1
Sulfate	4.4		1.0	0.76	mg/L			03/23/21 14:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/24/21 11:35	03/29/21 19:06	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/24/21 11:35	03/29/21 19:06	1
Barium	<0.0016		0.010	0.0016	mg/L		03/24/21 11:35	03/29/21 19:06	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/24/21 11:35	03/29/21 19:06	1
Boron	<0.039		0.080	0.039	mg/L		03/24/21 11:35	03/29/21 19:06	1
Calcium	16		0.50	0.13	mg/L		03/24/21 11:35	03/29/21 19:06	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/24/21 11:35	03/29/21 19:06	1
Cobalt	0.00021	J	0.0025	0.00013	mg/L		03/24/21 11:35	03/29/21 19:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/24/21 11:35	03/29/21 19:06	1
Lithium	0.052		0.0050	0.0034	mg/L		03/24/21 11:35	03/29/21 19:06	1
Molybdenum	0.0013	J	0.015	0.00061	mg/L		03/24/21 11:35	03/29/21 19:06	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/24/21 11:35	03/29/21 19:06	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/24/21 11:35	03/29/21 19:06	1
Sodium	8.3		0.50	0.35	mg/L		03/24/21 11:35	03/29/21 19:06	1
Potassium	1.4		0.50	0.16	mg/L		03/24/21 11:35	03/29/21 19:06	1
Iron	0.098		0.050	0.020	mg/L		03/24/21 11:35	03/29/21 19:06	1
Magnesium	11		0.50	0.083	mg/L		03/24/21 11:35	03/29/21 19:06	1
Manganese	0.020		0.0050	0.00087	mg/L		03/24/21 11:35	03/29/21 19:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 15:21	1
Total Dissolved Solids	100		10	10	mg/L			03/18/21 18:22	1
Total Alkalinity as CaCO3 to pH 4.5	90	H	5.0	5.0	mg/L			03/26/21 09:02	1
Bicarbonate Alkalinity as CaCO3	90	H	5.0	5.0	mg/L			03/26/21 09:02	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: FB-2

Lab Sample ID: 180-118398-9

Date Collected: 03/12/21 12:05

Matrix: Water

Date Received: 03/13/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/23/21 14:56	1
Fluoride	<0.026		0.10	0.026	mg/L			03/23/21 14:56	1
Sulfate	<0.76		1.0	0.76	mg/L			03/23/21 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/24/21 11:35	03/29/21 19:09	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/24/21 11:35	03/29/21 19:09	1
Barium	<0.0016		0.010	0.0016	mg/L		03/24/21 11:35	03/29/21 19:09	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/24/21 11:35	03/29/21 19:09	1
Boron	<0.039		0.080	0.039	mg/L		03/24/21 11:35	03/29/21 19:09	1
Calcium	<0.13		0.50	0.13	mg/L		03/24/21 11:35	03/29/21 19:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/24/21 11:35	03/29/21 19:09	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/24/21 11:35	03/29/21 19:09	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/24/21 11:35	03/29/21 19:09	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/24/21 11:35	03/29/21 19:09	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/24/21 11:35	03/29/21 19:09	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/24/21 11:35	03/29/21 19:09	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/24/21 11:35	03/29/21 19:09	1
Sodium	<0.35		0.50	0.35	mg/L		03/24/21 11:35	03/29/21 19:09	1
Potassium	<0.16		0.50	0.16	mg/L		03/24/21 11:35	03/29/21 19:09	1
Iron	<0.020		0.050	0.020	mg/L		03/24/21 11:35	03/29/21 19:09	1
Magnesium	<0.083		0.50	0.083	mg/L		03/24/21 11:35	03/29/21 19:09	1
Manganese	<0.00087		0.0050	0.00087	mg/L		03/24/21 11:35	03/29/21 19:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/17/21 14:00	03/17/21 15:47	1
Total Dissolved Solids	<10		10	10	mg/L			03/19/21 19:01	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0	H	5.0	5.0	mg/L			03/30/21 18:31	1
Bicarbonate Alkalinity as CaCO3	<5.0	H	5.0	5.0	mg/L			03/30/21 18:31	1

Client Sample Results

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

Job ID: 180-118348-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-118398-10

Date Collected: 03/12/21 10:59

Matrix: Water

Date Received: 03/13/21 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.5		1.0	0.71	mg/L			03/23/21 15:12	1
Fluoride	0.096	J	0.10	0.026	mg/L			03/23/21 15:12	1
Sulfate	14		1.0	0.76	mg/L			03/23/21 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/24/21 11:35	03/29/21 19:12	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/24/21 11:35	03/29/21 19:12	1
Barium	0.017		0.010	0.0016	mg/L		03/24/21 11:35	03/29/21 19:12	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/24/21 11:35	03/29/21 19:12	1
Boron	<0.039		0.080	0.039	mg/L		03/24/21 11:35	03/29/21 19:12	1
Calcium	15		0.50	0.13	mg/L		03/24/21 11:35	03/29/21 19:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/24/21 11:35	03/29/21 19:12	1
Cobalt	0.00042	J	0.0025	0.00013	mg/L		03/24/21 11:35	03/29/21 19:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/24/21 11:35	03/29/21 19:12	1
Lithium	0.0089		0.0050	0.0034	mg/L		03/24/21 11:35	03/29/21 19:12	1
Molybdenum	0.00062	J	0.015	0.00061	mg/L		03/24/21 11:35	03/29/21 19:12	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/24/21 11:35	03/29/21 19:12	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/24/21 11:35	03/29/21 19:12	1
Sodium	6.3		0.50	0.35	mg/L		03/24/21 11:35	03/29/21 19:12	1
Potassium	2.2		0.50	0.16	mg/L		03/24/21 11:35	03/29/21 19:12	1
Iron	1.8		0.050	0.020	mg/L		03/24/21 11:35	03/29/21 19:12	1
Magnesium	3.5		0.50	0.083	mg/L		03/24/21 11:35	03/29/21 19:12	1
Manganese	0.015		0.0050	0.00087	mg/L		03/24/21 11:35	03/29/21 19:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/17/21 14:00	03/17/21 15:56	1
Total Dissolved Solids	78		10	10	mg/L			03/19/21 19:01	1
Total Alkalinity as CaCO3 to pH 4.5	46	H	5.0	5.0	mg/L			03/30/21 18:40	1
Bicarbonate Alkalinity as CaCO3	46	H	5.0	5.0	mg/L			03/30/21 18:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.66				SU			03/12/21 10:59	1

QC Sample Results

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

Job ID: 180-118348-1

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

Lab Sample ID: MB 180-350116/55
Matrix: Water
Analysis Batch: 350116

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/20/21 23:52	1
Fluoride	<0.026		0.10	0.026	mg/L			03/20/21 23:52	1
Sulfate	<0.76		1.0	0.76	mg/L			03/20/21 23:52	1

Lab Sample ID: MB 180-350116/6
Matrix: Water
Analysis Batch: 350116

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/20/21 08:54	1
Fluoride	<0.026		0.10	0.026	mg/L			03/20/21 08:54	1
Sulfate	<0.76		1.0	0.76	mg/L			03/20/21 08:54	1

Lab Sample ID: LCS 180-350116/54
Matrix: Water
Analysis Batch: 350116

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	52.5		mg/L		105	90 - 110
Fluoride	2.50	2.51		mg/L		100	90 - 110
Sulfate	50.0	52.2		mg/L		104	90 - 110

Lab Sample ID: 180-118348-1 MS
Matrix: Water
Analysis Batch: 350116

Client Sample ID: WGWA-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4.5		50.0	54.8		mg/L		101	90 - 110
Fluoride	<0.026		2.50	2.45		mg/L		98	90 - 110
Sulfate	<0.76		50.0	50.0		mg/L		100	90 - 110

Lab Sample ID: 180-118348-1 MSD
Matrix: Water
Analysis Batch: 350116

Client Sample ID: WGWA-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	4.5		50.0	55.1		mg/L		101	90 - 110	1	20
Fluoride	<0.026		2.50	2.47		mg/L		99	90 - 110	1	20
Sulfate	<0.76		50.0	50.3		mg/L		101	90 - 110	1	20

Lab Sample ID: 180-118348-10 MS
Matrix: Water
Analysis Batch: 350116

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	1.7		50.0	52.4		mg/L		101	90 - 110
Fluoride	<0.026		2.50	2.45		mg/L		98	90 - 110
Sulfate	0.88	J	50.0	51.0		mg/L		100	90 - 110

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QC Sample Results

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

Job ID: 180-118348-1

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

Lab Sample ID: 180-118348-10 MSD
Matrix: Water
Analysis Batch: 350116

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	1.7		50.0	52.3		mg/L		101	90 - 110	0	20
Fluoride	<0.026		2.50	2.44		mg/L		97	90 - 110	1	20
Sulfate	0.88	J	50.0	50.9		mg/L		100	90 - 110	0	20

Lab Sample ID: MB 180-350369/6
Matrix: Water
Analysis Batch: 350369

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/23/21 10:53	1
Fluoride	<0.026		0.10	0.026	mg/L			03/23/21 10:53	1
Sulfate	<0.76		1.0	0.76	mg/L			03/23/21 10:53	1

Lab Sample ID: LCS 180-350369/5
Matrix: Water
Analysis Batch: 350369

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	51.0		mg/L		102	90 - 110
Fluoride	2.50	2.63		mg/L		105	90 - 110
Sulfate	50.0	51.0		mg/L		102	90 - 110

Lab Sample ID: 180-118398-1 MS
Matrix: Water
Analysis Batch: 350369

Client Sample ID: WGWC-15
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	53.9		mg/L		105	90 - 110
Fluoride	0.88		2.50	3.33		mg/L		98	90 - 110
Sulfate	19		50.0	68.6		mg/L		100	90 - 110

Lab Sample ID: 180-118398-1 MSD
Matrix: Water
Analysis Batch: 350369

Client Sample ID: WGWC-15
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	51.9		mg/L		101	90 - 110	4	20
Fluoride	0.88		2.50	3.26		mg/L		95	90 - 110	2	20
Sulfate	19		50.0	67.2		mg/L		97	90 - 110	2	20

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

Lab Sample ID: MB 180-350102/1-A
Matrix: Water
Analysis Batch: 350467

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 350102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/20/21 21:24	03/23/21 11:22	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/20/21 21:24	03/23/21 11:22	1
Barium	<0.0016		0.010	0.0016	mg/L		03/20/21 21:24	03/23/21 11:22	1

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QC Sample Results

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

Job ID: 180-118348-1

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

Lab Sample ID: MB 180-350102/1-A
Matrix: Water
Analysis Batch: 350467

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 350102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/20/21 21:24	03/23/21 11:22	1
Boron	<0.039		0.080	0.039	mg/L		03/20/21 21:24	03/23/21 11:22	1
Calcium	<0.13		0.50	0.13	mg/L		03/20/21 21:24	03/23/21 11:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/20/21 21:24	03/23/21 11:22	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/20/21 21:24	03/23/21 11:22	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/20/21 21:24	03/23/21 11:22	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/20/21 21:24	03/23/21 11:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/20/21 21:24	03/23/21 11:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/20/21 21:24	03/23/21 11:22	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/20/21 21:24	03/23/21 11:22	1
Sodium	<0.35		0.50	0.35	mg/L		03/20/21 21:24	03/23/21 11:22	1
Potassium	<0.16		0.50	0.16	mg/L		03/20/21 21:24	03/23/21 11:22	1
Iron	<0.020		0.050	0.020	mg/L		03/20/21 21:24	03/23/21 11:22	1
Magnesium	<0.083		0.50	0.083	mg/L		03/20/21 21:24	03/23/21 11:22	1
Manganese	<0.00087		0.0050	0.00087	mg/L		03/20/21 21:24	03/23/21 11:22	1

Lab Sample ID: LCS 180-350102/2-A
Matrix: Water
Analysis Batch: 350467

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 350102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.239		mg/L		95	80 - 120
Arsenic	1.00	0.937		mg/L		94	80 - 120
Barium	1.00	0.994		mg/L		99	80 - 120
Beryllium	0.500	0.499		mg/L		100	80 - 120
Boron	1.25	1.24		mg/L		99	80 - 120
Calcium	25.0	26.1		mg/L		104	80 - 120
Chromium	0.500	0.489		mg/L		98	80 - 120
Cobalt	0.500	0.466		mg/L		93	80 - 120
Lead	0.500	0.487		mg/L		97	80 - 120
Lithium	0.500	0.499		mg/L		100	80 - 120
Molybdenum	0.500	0.498		mg/L		100	80 - 120
Selenium	1.00	1.07		mg/L		107	80 - 120
Thallium	1.00	0.946		mg/L		95	80 - 120
Sodium	25.0	26.7		mg/L		107	80 - 120
Potassium	25.0	22.6		mg/L		91	80 - 120
Iron	5.00	5.20		mg/L		104	80 - 120
Magnesium	25.0	25.7		mg/L		103	80 - 120
Manganese	0.500	0.474		mg/L		95	80 - 120

Lab Sample ID: 180-118348-1 MS
Matrix: Water
Analysis Batch: 350467

Client Sample ID: WGWA-1
Prep Type: Total Recoverable
Prep Batch: 350102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.00038		0.250	0.239		mg/L		96	75 - 125
Arsenic	<0.00031		1.00	0.944		mg/L		94	75 - 125
Barium	0.046		1.00	1.05		mg/L		100	75 - 125
Beryllium	0.00029	J	0.500	0.491		mg/L		98	75 - 125

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QC Sample Results

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

Job ID: 180-118348-1

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

Lab Sample ID: 180-118348-1 MS
Matrix: Water
Analysis Batch: 350467

Client Sample ID: WGWA-1
Prep Type: Total Recoverable
Prep Batch: 350102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	<0.039		1.25	1.26		mg/L		101	75 - 125
Calcium	1.3		25.0	27.3		mg/L		104	75 - 125
Chromium	<0.0015		0.500	0.489		mg/L		98	75 - 125
Cobalt	0.00081	J	0.500	0.470		mg/L		94	75 - 125
Lead	<0.00013		0.500	0.484		mg/L		97	75 - 125
Lithium	0.0039	J	0.500	0.497		mg/L		99	75 - 125
Molybdenum	<0.00061		0.500	0.497		mg/L		99	75 - 125
Selenium	<0.0015		1.00	1.09		mg/L		109	75 - 125
Thallium	0.00045	J	1.00	0.951		mg/L		95	75 - 125
Sodium	3.3		25.0	29.6		mg/L		105	75 - 125
Potassium	1.1		25.0	23.7		mg/L		90	75 - 125
Iron	<0.020		5.00	5.12		mg/L		102	75 - 125
Magnesium	1.2		25.0	26.8		mg/L		103	75 - 125
Manganese	0.011		0.500	0.490		mg/L		96	75 - 125

Lab Sample ID: 180-118348-1 MSD
Matrix: Water
Analysis Batch: 350467

Client Sample ID: WGWA-1
Prep Type: Total Recoverable
Prep Batch: 350102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.00038		0.250	0.235		mg/L		94	75 - 125	2	20
Arsenic	<0.00031		1.00	0.928		mg/L		93	75 - 125	2	20
Barium	0.046		1.00	1.04		mg/L		99	75 - 125	2	20
Beryllium	0.00029	J	0.500	0.491		mg/L		98	75 - 125	0	20
Boron	<0.039		1.25	1.24		mg/L		100	75 - 125	1	20
Calcium	1.3		25.0	27.0		mg/L		103	75 - 125	1	20
Chromium	<0.0015		0.500	0.488		mg/L		98	75 - 125	0	20
Cobalt	0.00081	J	0.500	0.461		mg/L		92	75 - 125	2	20
Lead	<0.00013		0.500	0.489		mg/L		98	75 - 125	1	20
Lithium	0.0039	J	0.500	0.494		mg/L		98	75 - 125	1	20
Molybdenum	<0.00061		0.500	0.491		mg/L		98	75 - 125	1	20
Selenium	<0.0015		1.00	1.08	^+	mg/L		108	75 - 125	1	20
Thallium	0.00045	J	1.00	0.954		mg/L		95	75 - 125	0	20
Sodium	3.3		25.0	29.9		mg/L		106	75 - 125	1	20
Potassium	1.1		25.0	23.5		mg/L		90	75 - 125	1	20
Iron	<0.020		5.00	5.10		mg/L		102	75 - 125	0	20
Magnesium	1.2		25.0	26.3		mg/L		101	75 - 125	2	20
Manganese	0.011		0.500	0.484		mg/L		95	75 - 125	1	20

Lab Sample ID: MB 180-350579/1-A
Matrix: Water
Analysis Batch: 351150

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 350579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		03/24/21 11:35	03/29/21 18:05	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		03/24/21 11:35	03/29/21 18:05	1
Barium	<0.0016		0.010	0.0016	mg/L		03/24/21 11:35	03/29/21 18:05	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		03/24/21 11:35	03/29/21 18:05	1
Boron	<0.039		0.080	0.039	mg/L		03/24/21 11:35	03/29/21 18:05	1

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QC Sample Results

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

Job ID: 180-118348-1

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

Lab Sample ID: MB 180-350579/1-A
Matrix: Water
Analysis Batch: 351150

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 350579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.13		0.50	0.13	mg/L		03/24/21 11:35	03/29/21 18:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/24/21 11:35	03/29/21 18:05	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		03/24/21 11:35	03/29/21 18:05	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/24/21 11:35	03/29/21 18:05	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/24/21 11:35	03/29/21 18:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/24/21 11:35	03/29/21 18:05	1
Selenium	<0.0015		0.0050	0.0015	mg/L		03/24/21 11:35	03/29/21 18:05	1
Thallium	<0.00015		0.0010	0.00015	mg/L		03/24/21 11:35	03/29/21 18:05	1
Sodium	<0.35		0.50	0.35	mg/L		03/24/21 11:35	03/29/21 18:05	1
Potassium	<0.16		0.50	0.16	mg/L		03/24/21 11:35	03/29/21 18:05	1
Iron	<0.020		0.050	0.020	mg/L		03/24/21 11:35	03/29/21 18:05	1
Magnesium	<0.083		0.50	0.083	mg/L		03/24/21 11:35	03/29/21 18:05	1
Manganese	<0.00087		0.0050	0.00087	mg/L		03/24/21 11:35	03/29/21 18:05	1

Lab Sample ID: LCS 180-350579/2-A
Matrix: Water
Analysis Batch: 351150

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 350579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.252		mg/L		101	80 - 120
Arsenic	1.00	1.03		mg/L		103	80 - 120
Barium	1.00	1.07		mg/L		107	80 - 120
Beryllium	0.500	0.528		mg/L		106	80 - 120
Boron	1.25	1.23		mg/L		98	80 - 120
Calcium	25.0	27.3		mg/L		109	80 - 120
Chromium	0.500	0.538		mg/L		108	80 - 120
Cobalt	0.500	0.529		mg/L		106	80 - 120
Lead	0.500	0.556		mg/L		111	80 - 120
Lithium	0.500	0.528		mg/L		106	80 - 120
Molybdenum	0.500	0.564		mg/L		113	80 - 120
Selenium	1.00	1.15		mg/L		115	80 - 120
Thallium	1.00	1.12		mg/L		112	80 - 120
Sodium	25.0	28.7		mg/L		115	80 - 120
Potassium	25.0	24.6		mg/L		98	80 - 120
Iron	5.00	4.73		mg/L		95	80 - 120
Magnesium	25.0	27.1		mg/L		109	80 - 120
Manganese	0.500	0.524		mg/L		105	80 - 120

Lab Sample ID: MB 180-352257/1-A
Matrix: Water
Analysis Batch: 352526

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 352257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		04/07/21 13:55	04/08/21 08:53	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		04/07/21 13:55	04/08/21 08:53	1
Barium	<0.0016		0.010	0.0016	mg/L		04/07/21 13:55	04/08/21 08:53	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		04/07/21 13:55	04/08/21 08:53	1
Calcium	<0.13		0.50	0.13	mg/L		04/07/21 13:55	04/08/21 08:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/07/21 13:55	04/08/21 08:53	1

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QC Sample Results

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

Job ID: 180-118348-1

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

Lab Sample ID: MB 180-352257/1-A
Matrix: Water
Analysis Batch: 352526

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 352257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.00013		0.0025	0.00013	mg/L		04/07/21 13:55	04/08/21 08:53	1
Lead	<0.00013		0.0010	0.00013	mg/L		04/07/21 13:55	04/08/21 08:53	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/07/21 13:55	04/08/21 08:53	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/07/21 13:55	04/08/21 08:53	1
Selenium	<0.0015		0.0050	0.0015	mg/L		04/07/21 13:55	04/08/21 08:53	1
Thallium	<0.00015		0.0010	0.00015	mg/L		04/07/21 13:55	04/08/21 08:53	1
Sodium	<0.35		0.50	0.35	mg/L		04/07/21 13:55	04/08/21 08:53	1
Potassium	<0.16		0.50	0.16	mg/L		04/07/21 13:55	04/08/21 08:53	1
Iron	<0.020		0.050	0.020	mg/L		04/07/21 13:55	04/08/21 08:53	1
Magnesium	<0.083		0.50	0.083	mg/L		04/07/21 13:55	04/08/21 08:53	1
Manganese	<0.00087		0.0050	0.00087	mg/L		04/07/21 13:55	04/08/21 08:53	1

Lab Sample ID: LCS 180-352257/2-A
Matrix: Water
Analysis Batch: 352526

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 352257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.229		mg/L		91	80 - 120
Arsenic	1.00	0.958		mg/L		96	80 - 120
Barium	1.00	0.973		mg/L		97	80 - 120
Beryllium	0.500	0.511		mg/L		102	80 - 120
Calcium	25.0	28.4		mg/L		114	80 - 120
Chromium	0.500	0.495		mg/L		99	80 - 120
Cobalt	0.500	0.490		mg/L		98	80 - 120
Lead	0.500	0.492		mg/L		98	80 - 120
Lithium	0.500	0.496		mg/L		99	80 - 120
Molybdenum	0.500	0.498		mg/L		100	80 - 120
Selenium	1.00	0.994		mg/L		99	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120
Sodium	25.0	24.8		mg/L		99	80 - 120
Potassium	25.0	24.6		mg/L		98	80 - 120
Iron	5.00	5.09		mg/L		102	80 - 120
Magnesium	25.0	25.2		mg/L		101	80 - 120
Manganese	0.500	0.492		mg/L		98	80 - 120

Lab Sample ID: LCSD 180-352257/3-A
Matrix: Water
Analysis Batch: 352526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 352257

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.250	0.232		mg/L		93	80 - 120	2	20
Arsenic	1.00	0.988		mg/L		99	80 - 120	3	20
Barium	1.00	0.984		mg/L		98	80 - 120	1	20
Beryllium	0.500	0.506		mg/L		101	80 - 120	1	20
Calcium	25.0	29.4		mg/L		118	80 - 120	4	20
Chromium	0.500	0.498		mg/L		100	80 - 120	1	20
Cobalt	0.500	0.503		mg/L		101	80 - 120	3	20
Lead	0.500	0.497		mg/L		99	80 - 120	1	20
Lithium	0.500	0.496		mg/L		99	80 - 120	0	20

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QC Sample Results

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

Job ID: 180-118348-1

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

Lab Sample ID: LCSD 180-352257/3-A
Matrix: Water
Analysis Batch: 352526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 352257

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	0.500	0.512		mg/L		102	80 - 120	3	20
Selenium	1.00	0.998		mg/L		100	80 - 120	0	20
Thallium	1.00	1.06		mg/L		106	80 - 120	0	20
Sodium	25.0	25.5		mg/L		102	80 - 120	3	20
Potassium	25.0	24.9		mg/L		99	80 - 120	1	20
Iron	5.00	5.07		mg/L		101	80 - 120	0	20
Magnesium	25.0	25.7		mg/L		103	80 - 120	2	20
Manganese	0.500	0.498		mg/L		100	80 - 120	1	20

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-349361/1-A
Matrix: Water
Analysis Batch: 349549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:05	1

Lab Sample ID: LCS 180-349361/2-A
Matrix: Water
Analysis Batch: 349549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	12.7	11.2		mg/L		88	85 - 115

Lab Sample ID: 180-118348-1 MS
Matrix: Water
Analysis Batch: 349549

Client Sample ID: WGWA-1
Prep Type: Total/NA
Prep Batch: 349361

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	<2.1		12.7	10.5		mg/L		83	75 - 125

Lab Sample ID: 180-118348-1 MSD
Matrix: Water
Analysis Batch: 349549

Client Sample ID: WGWA-1
Prep Type: Total/NA
Prep Batch: 349361

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	<2.1		12.7	10.2		mg/L		80	75 - 125	3	20

Lab Sample ID: MB 180-349362/1-A
Matrix: Water
Analysis Batch: 349551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 14:20	1

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QC Sample Results

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

Job ID: 180-118348-1

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 180-349362/2-A
Matrix: Water
Analysis Batch: 349551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349362
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Sulfide	12.7	12.1		mg/L		95	85 - 115

Lab Sample ID: MB 180-349716/1-A
Matrix: Water
Analysis Batch: 349871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/17/21 14:00	03/17/21 15:41	1

Lab Sample ID: LCS 180-349716/2-A
Matrix: Water
Analysis Batch: 349871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349716
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Sulfide	12.8	11.3		mg/L		88	85 - 115

Lab Sample ID: 180-118398-9 MS
Matrix: Water
Analysis Batch: 349871

Client Sample ID: FB-2
Prep Type: Total/NA
Prep Batch: 349716
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Sulfide	<2.1		12.8	11.3		mg/L		88	75 - 125

Lab Sample ID: 180-118398-9 MSD
Matrix: Water
Analysis Batch: 349871

Client Sample ID: FB-2
Prep Type: Total/NA
Prep Batch: 349716
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Sulfide	<2.1		12.8	10.7		mg/L		83	75 - 125	6	20

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

Lab Sample ID: MB 180-349759/2
Matrix: Water
Analysis Batch: 349759

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			03/17/21 19:05	1

Lab Sample ID: LCS 180-349759/1
Matrix: Water
Analysis Batch: 349759

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	457	436		mg/L		95	80 - 120

QC Sample Results

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

Job ID: 180-118348-1

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

Lab Sample ID: MB 180-349921/2
Matrix: Water
Analysis Batch: 349921

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			03/18/21 17:41	1

Lab Sample ID: LCS 180-349921/1
Matrix: Water
Analysis Batch: 349921

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	457	446		mg/L		98	80 - 120

Lab Sample ID: MB 180-349926/2
Matrix: Water
Analysis Batch: 349926

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			03/18/21 18:22	1

Lab Sample ID: LCS 180-349926/1
Matrix: Water
Analysis Batch: 349926

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	457	412		mg/L		90	80 - 120

Lab Sample ID: 180-118398-5 DU
Matrix: Water
Analysis Batch: 349926

Client Sample ID: WGWC-14A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	24		22.0		mg/L		4	10

Lab Sample ID: MB 180-349927/2
Matrix: Water
Analysis Batch: 349927

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			03/18/21 18:31	1

Lab Sample ID: LCS 180-349927/1
Matrix: Water
Analysis Batch: 349927

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	457	430		mg/L		94	80 - 120

Lab Sample ID: MB 180-350089/2
Matrix: Water
Analysis Batch: 350089

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			03/19/21 19:01	1

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QC Sample Results

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

Job ID: 180-118348-1

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

Lab Sample ID: LCS 180-350089/1
Matrix: Water
Analysis Batch: 350089

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	457	472		mg/L		103	80 - 120

Lab Sample ID: MB 180-350091/2
Matrix: Water
Analysis Batch: 350091

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			03/19/21 19:08	1

Lab Sample ID: LCS 180-350091/1
Matrix: Water
Analysis Batch: 350091

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	457	444		mg/L		97	80 - 120

Lab Sample ID: 180-118348-8 DU
Matrix: Water
Analysis Batch: 350091

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	72	H	73.0		mg/L		1	10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-350921/100
Matrix: Water
Analysis Batch: 350921

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/25/21 19:12	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/25/21 19:12	1

Lab Sample ID: MB 180-350921/148
Matrix: Water
Analysis Batch: 350921

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/26/21 02:42	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/26/21 02:42	1

Lab Sample ID: MB 180-350921/171
Matrix: Water
Analysis Batch: 350921

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/26/21 06:16	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/26/21 06:16	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-118348-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-350921/147
Matrix: Water
Analysis Batch: 350921

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	230		mg/L		92	90 - 110

Lab Sample ID: LCS 180-350921/170
Matrix: Water
Analysis Batch: 350921

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	227		mg/L		91	90 - 110

Lab Sample ID: LCS 180-350921/99
Matrix: Water
Analysis Batch: 350921

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	226		mg/L		91	90 - 110

Lab Sample ID: LLCS 180-350921/169
Matrix: Water
Analysis Batch: 350921

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	20.0	21.6		mg/L		108	90 - 110

Lab Sample ID: LLCS 180-350921/98
Matrix: Water
Analysis Batch: 350921

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	20.0	20.2		mg/L		101	90 - 110

Lab Sample ID: 180-118348-8 DU
Matrix: Water
Analysis Batch: 350921

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	31	H	30.5		mg/L		3	20
Bicarbonate Alkalinity as CaCO3	31	H	30.5		mg/L		3	20

Lab Sample ID: 180-118348-13 DU
Matrix: Water
Analysis Batch: 350921

Client Sample ID: EB-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	<5.0	H	<5.0		mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	<5.0	H	<5.0		mg/L		NC	20

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-118348-1

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-350993/87
Matrix: Water
Analysis Batch: 350993

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/26/21 17:31	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/26/21 17:31	1

Lab Sample ID: LCS 180-350993/86
Matrix: Water
Analysis Batch: 350993

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	225		mg/L		90	90 - 110

Lab Sample ID: LLCS 180-350993/85
Matrix: Water
Analysis Batch: 350993

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	20.0	20.7		mg/L		103	90 - 110

Lab Sample ID: 180-118348-15 DU
Matrix: Water
Analysis Batch: 350993

Client Sample ID: FB-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	<5.0	H	<5.0		mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	<5.0	H	<5.0		mg/L		NC	20

Lab Sample ID: MB 180-351516/6
Matrix: Water
Analysis Batch: 351516

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/30/21 15:56	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/30/21 15:56	1

Lab Sample ID: LCS 180-351516/5
Matrix: Water
Analysis Batch: 351516

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	229		mg/L		91	90 - 110

Lab Sample ID: LLCS 180-351516/4
Matrix: Water
Analysis Batch: 351516

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	20.0	21.2		mg/L		106	90 - 110

Eurofins TestAmerica, Pittsburgh

QC Association Summary

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

Job ID: 180-118348-1

HPLC/IC

Analysis Batch: 350116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-1	WGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-118348-2	WGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-118348-3	WGWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-118348-4	WGWA-4	Total/NA	Water	EPA 300.0 R2.1	
180-118348-5	WGWA-5	Total/NA	Water	EPA 300.0 R2.1	
180-118348-6	WGWA-6	Total/NA	Water	EPA 300.0 R2.1	
180-118348-7	WGWA-7	Total/NA	Water	EPA 300.0 R2.1	
180-118348-8	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	
180-118348-9	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-118348-9	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-118348-10	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
180-118348-11	WGWC-16	Total/NA	Water	EPA 300.0 R2.1	
180-118348-12	WGWC-17	Total/NA	Water	EPA 300.0 R2.1	
180-118348-13	EB-1	Total/NA	Water	EPA 300.0 R2.1	
180-118348-14	EB-2	Total/NA	Water	EPA 300.0 R2.1	
180-118348-15	FB-1	Total/NA	Water	EPA 300.0 R2.1	
MB 180-350116/55	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-350116/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-350116/54	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-118348-1 MS	WGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-118348-1 MSD	WGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-118348-10 MS	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
180-118348-10 MSD	Dup-1	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 350369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-1	WGWC-15	Total/NA	Water	EPA 300.0 R2.1	
180-118398-2	WGWC-10	Total/NA	Water	EPA 300.0 R2.1	
180-118398-3	WGWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-118398-4	WGWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-118398-5	WGWC-14A	Total/NA	Water	EPA 300.0 R2.1	
180-118398-6	WGWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-118398-7	WGWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-118398-8	Dup-2	Total/NA	Water	EPA 300.0 R2.1	
180-118398-9	FB-2	Total/NA	Water	EPA 300.0 R2.1	
180-118398-10	WGWC-12	Total/NA	Water	EPA 300.0 R2.1	
MB 180-350369/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-350369/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-118398-1 MS	WGWC-15	Total/NA	Water	EPA 300.0 R2.1	
180-118398-1 MSD	WGWC-15	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 350102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-1	WGWA-1	Total Recoverable	Water	3005A	
180-118348-2	WGWA-2	Total Recoverable	Water	3005A	
180-118348-3	WGWA-3	Total Recoverable	Water	3005A	
180-118348-4	WGWA-4	Total Recoverable	Water	3005A	
180-118348-5	WGWA-5	Total Recoverable	Water	3005A	
180-118348-6	WGWA-6	Total Recoverable	Water	3005A	

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QC Association Summary

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

Job ID: 180-118348-1

Metals (Continued)

Prep Batch: 350102 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-7	WGWA-7	Total Recoverable	Water	3005A	
180-118348-8	WGWA-18	Total Recoverable	Water	3005A	
180-118348-9	WGWC-8	Total Recoverable	Water	3005A	
180-118348-10	Dup-1	Total Recoverable	Water	3005A	
180-118348-11	WGWC-16	Total Recoverable	Water	3005A	
180-118348-12	WGWC-17	Total Recoverable	Water	3005A	
180-118348-13	EB-1	Total Recoverable	Water	3005A	
180-118348-14	EB-2	Total Recoverable	Water	3005A	
180-118348-15	FB-1	Total Recoverable	Water	3005A	
MB 180-350102/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-350102/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-118348-1 MS	WGWA-1	Total Recoverable	Water	3005A	
180-118348-1 MSD	WGWA-1	Total Recoverable	Water	3005A	

Analysis Batch: 350467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-1	WGWA-1	Total Recoverable	Water	EPA 6020B	350102
180-118348-2	WGWA-2	Total Recoverable	Water	EPA 6020B	350102
180-118348-3	WGWA-3	Total Recoverable	Water	EPA 6020B	350102
180-118348-4	WGWA-4	Total Recoverable	Water	EPA 6020B	350102
180-118348-5	WGWA-5	Total Recoverable	Water	EPA 6020B	350102
180-118348-6	WGWA-6	Total Recoverable	Water	EPA 6020B	350102
180-118348-7	WGWA-7	Total Recoverable	Water	EPA 6020B	350102
180-118348-8	WGWA-18	Total Recoverable	Water	EPA 6020B	350102
180-118348-9	WGWC-8	Total Recoverable	Water	EPA 6020B	350102
180-118348-10	Dup-1	Total Recoverable	Water	EPA 6020B	350102
180-118348-11	WGWC-16	Total Recoverable	Water	EPA 6020B	350102
180-118348-12	WGWC-17	Total Recoverable	Water	EPA 6020B	350102
180-118348-13	EB-1	Total Recoverable	Water	EPA 6020B	350102
180-118348-14	EB-2	Total Recoverable	Water	EPA 6020B	350102
180-118348-15	FB-1	Total Recoverable	Water	EPA 6020B	350102
MB 180-350102/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	350102
LCS 180-350102/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	350102
180-118348-1 MS	WGWA-1	Total Recoverable	Water	EPA 6020B	350102
180-118348-1 MSD	WGWA-1	Total Recoverable	Water	EPA 6020B	350102

Prep Batch: 350579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-1	WGWC-15	Total Recoverable	Water	3005A	
180-118398-2	WGWC-10	Total Recoverable	Water	3005A	
180-118398-3	WGWC-11	Total Recoverable	Water	3005A	
180-118398-4	WGWC-13	Total Recoverable	Water	3005A	
180-118398-5	WGWC-14A	Total Recoverable	Water	3005A	
180-118398-6	WGWC-9	Total Recoverable	Water	3005A	
180-118398-7	WGWC-19	Total Recoverable	Water	3005A	
180-118398-8	Dup-2	Total Recoverable	Water	3005A	
180-118398-9	FB-2	Total Recoverable	Water	3005A	
180-118398-10	WGWC-12	Total Recoverable	Water	3005A	
MB 180-350579/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-350579/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

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QC Association Summary

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

Job ID: 180-118348-1

Metals

Analysis Batch: 350601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-9	WGWC-8	Total Recoverable	Water	EPA 6020B	350102
180-118348-11	WGWC-16	Total Recoverable	Water	EPA 6020B	350102

Analysis Batch: 351150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-1	WGWC-15	Total Recoverable	Water	EPA 6020B	350579
180-118398-2	WGWC-10	Total Recoverable	Water	EPA 6020B	350579
180-118398-3	WGWC-11	Total Recoverable	Water	EPA 6020B	350579
180-118398-4	WGWC-13	Total Recoverable	Water	EPA 6020B	350579
180-118398-5	WGWC-14A	Total Recoverable	Water	EPA 6020B	350579
180-118398-6	WGWC-9	Total Recoverable	Water	EPA 6020B	350579
180-118398-7	WGWC-19	Total Recoverable	Water	EPA 6020B	350579
180-118398-8	Dup-2	Total Recoverable	Water	EPA 6020B	350579
180-118398-9	FB-2	Total Recoverable	Water	EPA 6020B	350579
180-118398-10	WGWC-12	Total Recoverable	Water	EPA 6020B	350579
MB 180-350579/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	350579
LCS 180-350579/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	350579

Prep Batch: 352257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-2	WGWC-10	Total Recoverable	Water	3005A	
MB 180-352257/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-352257/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 180-352257/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 352526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-2	WGWC-10	Total Recoverable	Water	EPA 6020B	352257
MB 180-352257/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	352257
LCS 180-352257/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	352257
LCSD 180-352257/3-A	Lab Control Sample Dup	Total Recoverable	Water	EPA 6020B	352257

General Chemistry

Prep Batch: 349361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-1	WGWA-1	Total/NA	Water	9030B	
180-118348-2	WGWA-2	Total/NA	Water	9030B	
180-118348-3	WGWA-3	Total/NA	Water	9030B	
180-118348-4	WGWA-4	Total/NA	Water	9030B	
180-118348-5	WGWA-5	Total/NA	Water	9030B	
180-118348-6	WGWA-6	Total/NA	Water	9030B	
180-118348-7	WGWA-7	Total/NA	Water	9030B	
180-118348-8	WGWA-18	Total/NA	Water	9030B	
180-118348-9	WGWC-8	Total/NA	Water	9030B	
180-118348-10	Dup-1	Total/NA	Water	9030B	
180-118348-11	WGWC-16	Total/NA	Water	9030B	
180-118348-12	WGWC-17	Total/NA	Water	9030B	
180-118348-13	EB-1	Total/NA	Water	9030B	
180-118348-14	EB-2	Total/NA	Water	9030B	
180-118348-15	FB-1	Total/NA	Water	9030B	

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QC Association Summary

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

Job ID: 180-118348-1

General Chemistry (Continued)

Prep Batch: 349361 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-349361/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-349361/2-A	Lab Control Sample	Total/NA	Water	9030B	
180-118348-1 MS	WGWA-1	Total/NA	Water	9030B	
180-118348-1 MSD	WGWA-1	Total/NA	Water	9030B	

Prep Batch: 349362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-1	WGWC-15	Total/NA	Water	9030B	
180-118398-2	WGWC-10	Total/NA	Water	9030B	
180-118398-3	WGWC-11	Total/NA	Water	9030B	
180-118398-4	WGWC-13	Total/NA	Water	9030B	
180-118398-5	WGWC-14A	Total/NA	Water	9030B	
180-118398-6	WGWC-9	Total/NA	Water	9030B	
180-118398-7	WGWC-19	Total/NA	Water	9030B	
180-118398-8	Dup-2	Total/NA	Water	9030B	
MB 180-349362/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-349362/2-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 349549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-1	WGWA-1	Total/NA	Water	EPA 9034	349361
180-118348-2	WGWA-2	Total/NA	Water	EPA 9034	349361
180-118348-3	WGWA-3	Total/NA	Water	EPA 9034	349361
180-118348-4	WGWA-4	Total/NA	Water	EPA 9034	349361
180-118348-5	WGWA-5	Total/NA	Water	EPA 9034	349361
180-118348-6	WGWA-6	Total/NA	Water	EPA 9034	349361
180-118348-7	WGWA-7	Total/NA	Water	EPA 9034	349361
180-118348-8	WGWA-18	Total/NA	Water	EPA 9034	349361
180-118348-9	WGWC-8	Total/NA	Water	EPA 9034	349361
180-118348-10	Dup-1	Total/NA	Water	EPA 9034	349361
180-118348-11	WGWC-16	Total/NA	Water	EPA 9034	349361
180-118348-12	WGWC-17	Total/NA	Water	EPA 9034	349361
180-118348-13	EB-1	Total/NA	Water	EPA 9034	349361
180-118348-14	EB-2	Total/NA	Water	EPA 9034	349361
180-118348-15	FB-1	Total/NA	Water	EPA 9034	349361
MB 180-349361/1-A	Method Blank	Total/NA	Water	EPA 9034	349361
LCS 180-349361/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	349361
180-118348-1 MS	WGWA-1	Total/NA	Water	EPA 9034	349361
180-118348-1 MSD	WGWA-1	Total/NA	Water	EPA 9034	349361

Analysis Batch: 349551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-1	WGWC-15	Total/NA	Water	EPA 9034	349362
180-118398-2	WGWC-10	Total/NA	Water	EPA 9034	349362
180-118398-3	WGWC-11	Total/NA	Water	EPA 9034	349362
180-118398-4	WGWC-13	Total/NA	Water	EPA 9034	349362
180-118398-5	WGWC-14A	Total/NA	Water	EPA 9034	349362
180-118398-6	WGWC-9	Total/NA	Water	EPA 9034	349362
180-118398-7	WGWC-19	Total/NA	Water	EPA 9034	349362
180-118398-8	Dup-2	Total/NA	Water	EPA 9034	349362
MB 180-349362/1-A	Method Blank	Total/NA	Water	EPA 9034	349362

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QC Association Summary

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

Job ID: 180-118348-1

General Chemistry (Continued)

Analysis Batch: 349551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-349362/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	349362

Prep Batch: 349716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-9	FB-2	Total/NA	Water	9030B	
180-118398-10	WGWC-12	Total/NA	Water	9030B	
MB 180-349716/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-349716/2-A	Lab Control Sample	Total/NA	Water	9030B	
180-118398-9 MS	FB-2	Total/NA	Water	9030B	
180-118398-9 MSD	FB-2	Total/NA	Water	9030B	

Analysis Batch: 349759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-2	WGWA-2	Total/NA	Water	SM 2540C	
180-118348-3	WGWA-3	Total/NA	Water	SM 2540C	
180-118348-4	WGWA-4	Total/NA	Water	SM 2540C	
180-118348-5	WGWA-5	Total/NA	Water	SM 2540C	
180-118348-7	WGWA-7	Total/NA	Water	SM 2540C	
MB 180-349759/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-349759/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 349871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-9	FB-2	Total/NA	Water	EPA 9034	349716
180-118398-10	WGWC-12	Total/NA	Water	EPA 9034	349716
MB 180-349716/1-A	Method Blank	Total/NA	Water	EPA 9034	349716
LCS 180-349716/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	349716
180-118398-9 MS	FB-2	Total/NA	Water	EPA 9034	349716
180-118398-9 MSD	FB-2	Total/NA	Water	EPA 9034	349716

Analysis Batch: 349921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-10	Dup-1	Total/NA	Water	SM 2540C	
180-118348-13	EB-1	Total/NA	Water	SM 2540C	
180-118348-14	EB-2	Total/NA	Water	SM 2540C	
180-118348-15	FB-1	Total/NA	Water	SM 2540C	
MB 180-349921/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-349921/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 349926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-2	WGWC-10	Total/NA	Water	SM 2540C	
180-118398-4	WGWC-13	Total/NA	Water	SM 2540C	
180-118398-5	WGWC-14A	Total/NA	Water	SM 2540C	
180-118398-7	WGWC-19	Total/NA	Water	SM 2540C	
180-118398-8	Dup-2	Total/NA	Water	SM 2540C	
MB 180-349926/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-349926/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-118398-5 DU	WGWC-14A	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

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

Job ID: 180-118348-1

General Chemistry

Analysis Batch: 349927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-1	WGWA-1	Total/NA	Water	SM 2540C	
180-118348-6	WGWA-6	Total/NA	Water	SM 2540C	
180-118348-9	WGWC-8	Total/NA	Water	SM 2540C	
180-118348-11	WGWC-16	Total/NA	Water	SM 2540C	
180-118348-12	WGWC-17	Total/NA	Water	SM 2540C	
MB 180-349927/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-349927/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 350089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-1	WGWC-15	Total/NA	Water	SM 2540C	
180-118398-3	WGWC-11	Total/NA	Water	SM 2540C	
180-118398-6	WGWC-9	Total/NA	Water	SM 2540C	
180-118398-9	FB-2	Total/NA	Water	SM 2540C	
180-118398-10	WGWC-12	Total/NA	Water	SM 2540C	
MB 180-350089/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-350089/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 350091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-8	WGWA-18	Total/NA	Water	SM 2540C	
MB 180-350091/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-350091/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-118348-8 DU	WGWA-18	Total/NA	Water	SM 2540C	

Analysis Batch: 350921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-1	WGWA-1	Total/NA	Water	SM2320 B	
180-118348-2	WGWA-2	Total/NA	Water	SM2320 B	
180-118348-3	WGWA-3	Total/NA	Water	SM2320 B	
180-118348-4	WGWA-4	Total/NA	Water	SM2320 B	
180-118348-5	WGWA-5	Total/NA	Water	SM2320 B	
180-118348-6	WGWA-6	Total/NA	Water	SM2320 B	
180-118348-7	WGWA-7	Total/NA	Water	SM2320 B	
180-118348-8	WGWA-18	Total/NA	Water	SM2320 B	
180-118348-9	WGWC-8	Total/NA	Water	SM2320 B	
180-118348-10	Dup-1	Total/NA	Water	SM2320 B	
180-118348-11	WGWC-16	Total/NA	Water	SM2320 B	
180-118348-12	WGWC-17	Total/NA	Water	SM2320 B	
180-118348-13	EB-1	Total/NA	Water	SM2320 B	
180-118348-14	EB-2	Total/NA	Water	SM2320 B	
180-118398-2	WGWC-10	Total/NA	Water	SM2320 B	
180-118398-4	WGWC-13	Total/NA	Water	SM2320 B	
180-118398-5	WGWC-14A	Total/NA	Water	SM2320 B	
180-118398-7	WGWC-19	Total/NA	Water	SM2320 B	
180-118398-8	Dup-2	Total/NA	Water	SM2320 B	
MB 180-350921/100	Method Blank	Total/NA	Water	SM2320 B	
MB 180-350921/148	Method Blank	Total/NA	Water	SM2320 B	
MB 180-350921/171	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-350921/147	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-350921/170	Lab Control Sample	Total/NA	Water	SM2320 B	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

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

Job ID: 180-118348-1

General Chemistry (Continued)

Analysis Batch: 350921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-350921/99	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-350921/169	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-350921/98	Lab Control Sample	Total/NA	Water	SM2320 B	
180-118348-8 DU	WGWA-18	Total/NA	Water	SM2320 B	
180-118348-13 DU	EB-1	Total/NA	Water	SM2320 B	

Analysis Batch: 350993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-15	FB-1	Total/NA	Water	SM2320 B	
MB 180-350993/87	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-350993/86	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-350993/85	Lab Control Sample	Total/NA	Water	SM2320 B	
180-118348-15 DU	FB-1	Total/NA	Water	SM2320 B	

Analysis Batch: 351516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-1	WGWC-15	Total/NA	Water	SM2320 B	
180-118398-3	WGWC-11	Total/NA	Water	SM2320 B	
180-118398-6	WGWC-9	Total/NA	Water	SM2320 B	
180-118398-9	FB-2	Total/NA	Water	SM2320 B	
180-118398-10	WGWC-12	Total/NA	Water	SM2320 B	
MB 180-351516/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-351516/5	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-351516/4	Lab Control Sample	Total/NA	Water	SM2320 B	

Field Service / Mobile Lab

Analysis Batch: 349457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-1	WGWA-1	Total/NA	Water	Field Sampling	
180-118348-2	WGWA-2	Total/NA	Water	Field Sampling	
180-118348-3	WGWA-3	Total/NA	Water	Field Sampling	
180-118348-4	WGWA-4	Total/NA	Water	Field Sampling	
180-118348-5	WGWA-5	Total/NA	Water	Field Sampling	
180-118348-6	WGWA-6	Total/NA	Water	Field Sampling	
180-118348-7	WGWA-7	Total/NA	Water	Field Sampling	
180-118348-8	WGWA-18	Total/NA	Water	Field Sampling	
180-118348-9	WGWC-8	Total/NA	Water	Field Sampling	
180-118348-11	WGWC-16	Total/NA	Water	Field Sampling	
180-118348-12	WGWC-17	Total/NA	Water	Field Sampling	
180-118398-1	WGWC-15	Total/NA	Water	Field Sampling	
180-118398-2	WGWC-10	Total/NA	Water	Field Sampling	
180-118398-3	WGWC-11	Total/NA	Water	Field Sampling	
180-118398-4	WGWC-13	Total/NA	Water	Field Sampling	
180-118398-5	WGWC-14A	Total/NA	Water	Field Sampling	
180-118398-6	WGWC-9	Total/NA	Water	Field Sampling	
180-118398-7	WGWC-19	Total/NA	Water	Field Sampling	
180-118398-10	WGWC-12	Total/NA	Water	Field Sampling	

Eurofins TestAmerica, Pittsburgh

Chain of Custody Record



Client Information Client Contact: <u>R. Walker / H. Aid / T. Goble</u> SCS Contacts: <u>770-594-5998</u> Company: <u>GA Power</u>		Lab PM: <u>Brown, Shali</u> E-Mail: <u>shali.brown@eurofinset.com</u>		Carrier Tracking No(s): COC No: Page: <u>1 of 2</u> Job #:	
Address: <u>241 Ralph McGill Blvd SE</u> City: <u>Atlanta</u> State, Zip: <u>GA, 30308</u> Phone: <u>404-506-7116(Tel)</u> Email: <u>SCS Contacts</u> Project Name: <u>CCR - Plant Wansley Ash Pond</u> Site:		Due Date Requested: TAT Requested (days): PO #: <u>SCS10382606</u> WO #: Project #: 18019922 SSOV#:		Analysis Requested: Major Ions - Bicarbonate Alkalinity, Total Alkalinity, Iron, Magnesium, Manganese, Potassium, Sodium, Sulfide Detected App IV Metals (EPA 6020/470): SP, As, Ba, Be, Cr, Co, Pb, Li, Mo, Se, Ti Radium 226 & 228 (SW-846 9315/9320) App III Metals (B, Ca) Perform MS/MSD (Yes or No)	
Sample Identification		Field Filtered Sample (Yes or No)		Total Number of Containers	
Sample ID: <u>WG-WA-1</u> <u>WG-WA-2</u> <u>WG-WA-3</u> <u>WG-WA-4</u> <u>WG-WA-5</u> <u>WG-WA-6</u> <u>WG-WA-7</u> <u>WG-WA-18</u> <u>WG-WC-8</u> <u>Dup-1</u>	Sample Date: <u>3-11-21</u> <u>3-10-21</u> <u>3-10-21</u> <u>3-10-21</u> <u>3-10-21</u> <u>3-11-21</u> <u>3-10-21</u> <u>3-10-21</u> <u>3-10-21</u>	Sample Time: <u>0935</u> <u>0855</u> <u>1054</u> <u>1217</u> <u>1705</u> <u>1058</u> <u>1345</u> <u>1542</u> <u>1212</u> <u>---</u>	Sample Type (C=comp, G=grab): <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u>	Matrix (W=water, S=sediment, O=water, BT=issue, AA=air): <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u>	Preservation Code: pH= <u>5.26</u> <u>6.11</u> <u>5.49</u> <u>7.19</u> <u>5.22</u> <u>7.93</u> <u>4.96</u> <u>5.80</u> <u>5.35</u> pH=
Special Instructions/Note: App III and App IV Event		Special Instructions/QC Requirements: <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:		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:	
Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u>		Date: <u>3-11-21/1645</u> <u>3/10/21 17:00</u> <u>3/10/21</u>		Date/Time: <u>3/11/21 16:45</u> <u>3-10-21</u> <u>8:30</u>	
Custody Seal Intact: <u>Yes</u> Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Company: <u>GA Power</u> Company: <u>GA Power</u> Company:	



Client Information		Sampler: <u>R. Walker / H. Add / T. Goble</u>		Lab PM: <u>Brown, Shali</u>		Carrier Tracking No(s):		COC No:			
Client Contact: <u>SCS Contacts</u>		Phone: <u>770-594-5998</u>		E-Mail: <u>shali.brown@euofinset.com</u>				Page: <u>2 of 2</u>			
Company: <u>GA Power</u>								Job #:			
Address: <u>241 Ralph McGill Blvd SE</u>		Due Date Requested:		Analysis Requested				Preservation Codes:			
City: <u>Atlanta</u>		TAT Requested (days):						M - Hexane N - None O - AsNaO2 P - Na2O4S Q - NaHSO4 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
State, Zip: <u>GA, 30308</u>		PO #: <u>SCS10382606</u>						Total Number of Containers			
Phone: <u>404-506-7116 (Tel)</u>		WO #: _____									
Email: _____		Project #: <u>18019922</u>						Special Instructions/Note: App III and App IV Event			
SCS Contacts		Site: _____									
Project Name: <u>CCR - Plant Wansley Ash Pond</u>											
Site: _____											
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals (B, Ca)	Cl, F, SO & TDS (EPA 300 & SM 2540c)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity, Iron, Magnesium, Manganese, Potassium, Sodium, Sulfide, Detected App IV Metals (EPA 6020/470):	Sb, As, Ba, Be, Cr, Co, Pb, Li, Mo, Se, Ti	Radium 226 & 228 (SW-846 9315/9320)
<u>WG-WC-16</u>	<u>3-11-21</u>	<u>1347</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>WG-WC-17</u>	<u>3-11-21</u>	<u>1210</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>EB-1</u>	<u>3-11-21</u>	<u>1100</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>EB-2</u>	<u>3-11-21</u>	<u>1355</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
<u>FB-1</u>	<u>3-11-21</u>	<u>1030</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>
			<u>G</u>	<u>Water</u>							
			<u>G</u>	<u>Water</u>							
			<u>G</u>	<u>Water</u>							
			<u>G</u>	<u>Water</u>							
			<u>G</u>	<u>Water</u>							
			<u>G</u>	<u>Water</u>							
			<u>G</u>	<u>Water</u>							
			<u>G</u>	<u>Water</u>							
			<u>G</u>	<u>Water</u>							
			<u>G</u>	<u>Water</u>							
			<u>G</u>	<u>Water</u>							
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		Special Instructions/QC Requirements:			
Deliverable Requested: I, II, III, IV, Other (specify)											
Empty Kit Relinquished by:		Date/Time: _____		Method of Shipment:							
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3/11/21 1645</u>		Company: <u>ACC</u>		Received by: <u>[Signature]</u>		Date/Time: <u>3/11/21 16:45</u>			
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3/11/21 17:00</u>		Company: <u>EDL</u>		Received by: <u>[Signature]</u>		Date/Time: <u>3-12-21</u>			
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3/11/21</u>		Company: _____		Received by: <u>[Signature]</u>		Date/Time: <u>8:30</u>			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:							



Chain of Custody Record

Client Information		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact: SCS Contacts		E-Mail: Shelli.brown@eurofinset.com		Brown, Shelli				Page: 1 of 1	
Company: GA Power		Phone: 770-544-5998		E-Mail: Shelli.brown@eurofinset.com				Job #:	
Address: 241 Ralph McGill Blvd SE		Due Date Requested:		Analysis Requested				Preservation Codes: M - Hexane A - HCL N - None C - AcNaO2	
City: Atlanta		TAT Requested (days):		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		A - HCL B - NaOH	
State, Zip: GA, 30308		PO #: SCS10382606		Matrix (Water, Solid, or Waste/Oil)		Radium 226 & 228 (SW-646 9315/9320)		M - Hexane N - None C - AcNaO2	
Phone: 404-506-7116 (Tel)		WO #:		Sample Type (C-comp, G-grab)		Detected App IV Metals (EPA 6020/7470): Sb,As,Ba,Bi,Cr,Cu,Pb,LI,Mo,Se,Tl		hydrate	
Email: SCS Contacts		Project #: 18019922		Sample Time		Major Ions - Bicarbonate Alkalinity, Total Alkalinity, Iron, Magnesium, Manganese, Potassium, Sodium, Sulfide		180-118398 Chain of Custody	
Project Name: CCR - Plant Wansley Ash Pond		SSOW#:		Sample Date		App III Metals (B, Ca)		Other:	
Site:				Preservation Code:		CF, F, SO & TDS (EPA 300 & SM 2540C)		Total Number of containers	
WGWC-9	WGWC-15	PH	3-12-21	1157	G	Water	✓	✓	pH= 7.72
WGWC-10			3-11-21	1625	G	Water	✓	✓	pH= 6.56
WGWC-11			3-12-21	1154	G	Water	✓	✓	pH= 5.46
WGWC-13			3-11-21	1353	G	Water	✓	✓	pH= 5.95
WGWC-14A			3-11-21	1516	G	Water	✓	✓	pH= 5.10
WGWC-15	WGWC-9	PH	3-12-21	1407	G	Water	✓	✓	pH= 5.88 + note = 1007
WGWC-19			3-11-21	1455	G	Water	✓	✓	pH= 7.12
Dup-2			3-11-21		G	Water	✓	✓	pH=
FB-2			3-12-21	1205	G	Water	✓	✓	pH=
WGWC-12			3-12-21	1059	G	Water	✓	✓	pH= 6.66
					G	Water			pH=

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 checked="" type="checkbox"/> Return To Client
<input type="checkbox"/> Poison B	<input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Radiological	<input type="checkbox"/> Disposal By Lab
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: [Signature]		Date: 3-12-21 / 1530	
Relinquished by: [Signature]		Date: 3-12-21 / 1600	
Relinquished by: [Signature]		Date: 3-12-21 / 1530	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:	
Cooler Temperature(s) °C and Other Remarks:		Received by: [Signature]	
		Received by: [Signature]	
		Received by: [Signature]	
		Date/Time: 3-12-21 / 1530	
		Date/Time: 3-12-21 / 1530	
		Date/Time: 3-12-21 / 1530	
		Company: ACC	
		Company: EVA	
		Company: [Signature]	





180-118348 Waybill

Ref: PLT WANSLEY ACCC Date: 11Mar21	SHIPPING:	0.00
Wgt: 58.40 LBS	SPECIAL:	0.00
DV:	HANDLING:	0.00
	TOTAL:	0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6580



Environment Testing
TestAmerica

Pat # 159469-484 RITZ EXP 11/21

ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

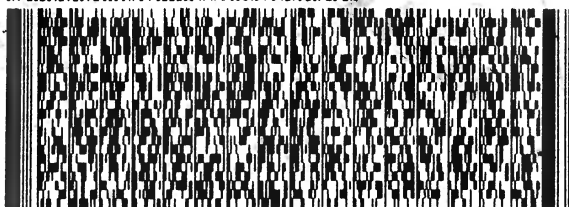
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECEIPT

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

(412) 963-7068

REF: PLT WANSLEY ACCC



FedEx
Express



120112012186114

3 of 6

MPS# 1516 9328 6580

Mstr# 1516 9328 6568

0201

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

15238

PA-US **PIT**

Uncorrected temp
Thermometer ID

2.5 °C

CF 0 Initials sj

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



DV:

0.00 TOTAL:

00
0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6605

Part # 159409-434 RITZ EXP 11/18



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

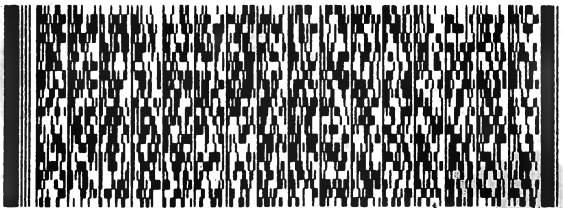
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECEIPT

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

(412) 963-7058

REF: PLT WANSLEY ACCC



FedEx
Express



0010151610211021

5 of 6

MPS# 1516 9328 6605
0263

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

Mstr# 1516 9328 6568

0201

NA AGCA

15238
PA-US **PIT**

Uncorrected temp
Thermometer ID

22 °C

14

CF 0 Initials J

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





Ref: PLT WANSLEY ACCC	Date: 11Mar21	SHIPPING:	0.00
Dep:	Wgt: 58.40 LBS	SPECIAL:	0.00
	DV:	HANDLING:	0.00
		0.00 TOTAL:	0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRACK: 1516 9328 6579



Environment Testing
TestAmerica

Part # 15968-434 RITZ EXP 11/21 ©

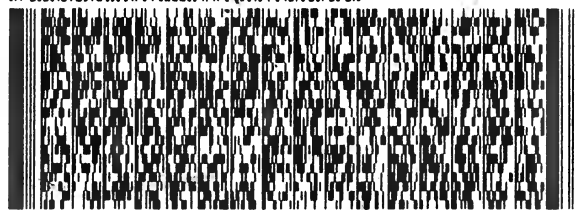
ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 963-7068
REF: PLT WANSLEY ACCC



FedEx
Express



J20112012180114

2 of 6
MPS# 1516 9328 6579
0263
Mstr# 1516 9328 6568

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

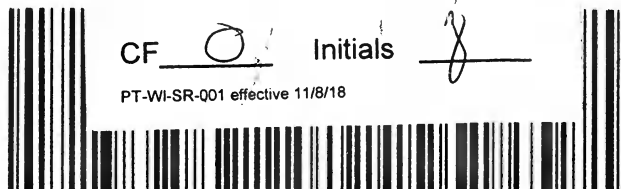
15238
PIT

Uncorrected temp
Thermometer ID

29 °C
19

CF 0 Initials 8

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



Ref: PLT WANSLEY ACCC Date: 11Mar21
Dep: Wgt: 58.40 LBS
DV: 0.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6616



Environment Testing
TestAmerica

3469-434 RIT2 EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

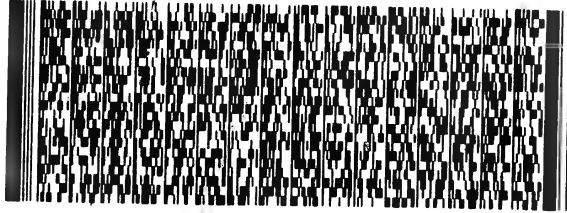
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 963-7068

REF: PLT WANSLEY ACCC



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Express



6 of 6

MPS# 1516 9328 6616
0263

Mstr# 1516 9328 6568

0201

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

Uncorrected temp
Thermometer ID

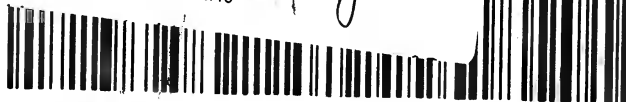
2.5 °C
19

15238

PA-US PIT

CF 0 Initials g

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



Do Not Lift Using This Tag

Ref: PLT WANSLEY ACCC Date: 11Mar21 SHIPPING: 0.00
Dep: Wgt: 58.40 LBS SPECIAL: 0.00
DV: 0.00 HANDLING: 0.00
TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6590



Environment Testing
TestAmerica

Part # 159469-434 RITZ EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

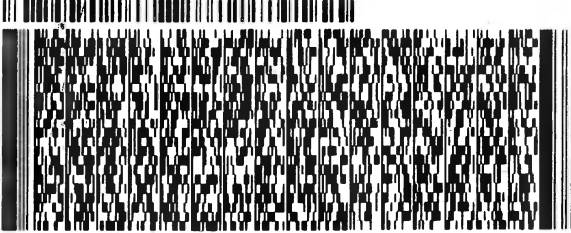
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

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REF: PLT WANSLEY ACCC



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AN10101210211021

4 of 6
MPS# 1516 9328 6590
0263
Mstr# 1516 9328 6568

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

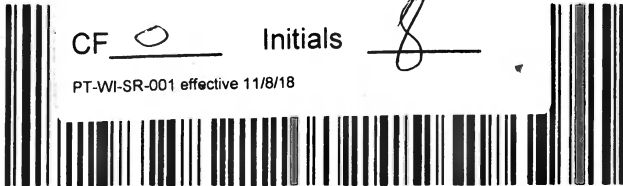
15238
PIT

Uncorrected temp
Thermometer ID

2.5 °C US
119

CF 0 Initials 8

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





Do Not Lift Using This Tag



**Environment Testing
TestAmerica**

Pat # 159465-434 RIT2 EXP 11/21

ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

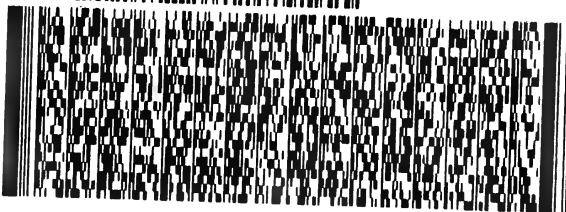
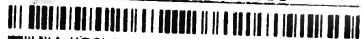
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 963-7058

REF: PLT WANSLEY ACCC



**FedEx
Express**



AN1031210211021

1 of 6

TRK# 1516 9328 6568
0201

MASTER

**FRI - 12 MAR 4:30P
STANDARD OVERNIGHT**

NA AGCA

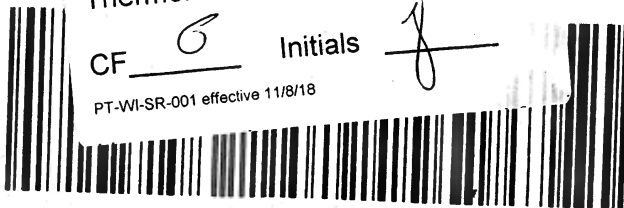
Uncorrected temp
Thermometer ID

2.8 °C
14
J

15238
us PIT

CF 6 Initials J

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



Do Not Lift L

Tao

639

FZ

Part # 159469-434 RIT2 EXP 11/21



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

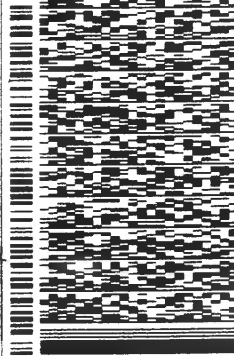
SHIP DATE: 12MAR21
ACTWGT: 60.05 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO SAMPLE RECEIVING

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

(412) 963-7058
REF: ACC



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2 of 3
SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# 1516 9328 6980

Mstr# 0263
Uncorrected temp 0201

Thermometer ID

CF Initials

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

3.5 °C
14
y

15238
A-US
PIT



FedEx Saturday Delivery

151967 RE

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Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

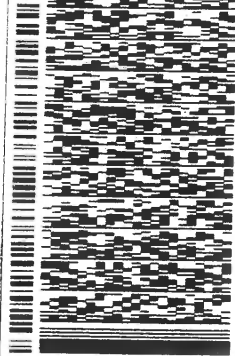
SHIP DATE: 12MAR21
ACTWGT: 60.05 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: ACC



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Express



1 of 3
SATURDAY 12:00
PRIORITY OVERNIGHT

TRK# 1516 9328 6970
0201
MASTER

XO AGCA 31240 #M 15238
PA-US PI

12
13

1
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180-118398 Waybill

Do Not Lift Using This Tag



Env
TestA

RT 639

12:00 6991 09.13

EXP 11/21

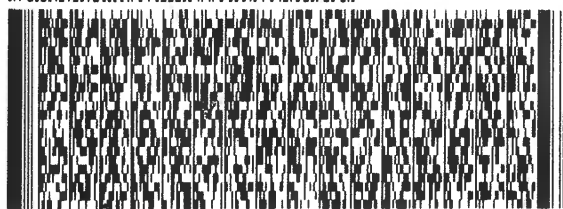
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 12MAR21
ACTWGT: 60.05 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 963-7058
REF: ACC



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3 of 3

MPS# 1516 9328 6991

Mstr# 1516 9328 6970

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 AGCA

Uncorrected temp
Thermometer ID

2.6 °C

14

CF 0 Initials Y

15238
PA-US PIT

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118348-1

Login Number: 118348

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: 180-118348-1

Login Number: 118398

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: 180-118348-2

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:
4/14/2021 6:26:38 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through
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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: 180-118348-2

Job ID: 180-118348-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Rad needs ACC EDD

- 1
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- 13

Definitions/Glossary

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

Job ID: 180-118348-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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: 180-118348-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21 *
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-21
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21
Kentucky (DW)	State	KY90125	01-01-22
Louisiana	NELAP	04080	06-30-21
Louisiana (DW)	State	LA011	12-31-21
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	04-01-22
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	03-01-22
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

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

Sample Summary

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

Job ID: 180-118348-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-118348-1	WGWA-1	Water	03/11/21 09:35	03/12/21 08:30	
180-118348-2	WGWA-2	Water	03/10/21 08:55	03/12/21 08:30	
180-118348-3	WGWA-3	Water	03/10/21 10:54	03/12/21 08:30	
180-118348-4	WGWA-4	Water	03/10/21 12:17	03/12/21 08:30	
180-118348-5	WGWA-5	Water	03/10/21 17:05	03/12/21 08:30	
180-118348-6	WGWA-6	Water	03/11/21 10:58	03/12/21 08:30	
180-118348-7	WGWA-7	Water	03/10/21 13:45	03/12/21 08:30	
180-118348-8	WGWA-18	Water	03/10/21 15:42	03/12/21 08:30	
180-118348-9	WGWC-8	Water	03/11/21 12:12	03/12/21 08:30	
180-118348-10	Dup-1	Water	03/10/21 00:00	03/12/21 08:30	
180-118348-11	WGWC-16	Water	03/11/21 13:47	03/12/21 08:30	
180-118348-12	WGWC-17	Water	03/11/21 12:10	03/12/21 08:30	
180-118348-13	EB-1	Water	03/11/21 11:00	03/12/21 08:30	
180-118348-14	EB-2	Water	03/11/21 13:55	03/12/21 08:30	
180-118348-15	FB-1	Water	03/11/21 10:30	03/12/21 08:30	
180-118398-1	WGWC-15	Water	03/12/21 11:57	03/13/21 09:00	
180-118398-2	WGWC-10	Water	03/11/21 16:25	03/13/21 09:00	
180-118398-3	WGWC-11	Water	03/12/21 11:54	03/13/21 09:00	
180-118398-4	WGWC-13	Water	03/11/21 13:53	03/13/21 09:00	
180-118398-5	WGWC-14A	Water	03/11/21 15:16	03/13/21 09:00	
180-118398-6	WGWC-9	Water	03/12/21 10:07	03/13/21 09:00	
180-118398-7	WGWC-19	Water	03/11/21 14:55	03/13/21 09:00	
180-118398-8	Dup-2	Water	03/11/21 00:00	03/13/21 09:00	
180-118398-9	FB-2	Water	03/12/21 12:05	03/13/21 09:00	
180-118398-10	WGWC-12	Water	03/12/21 10:59	03/13/21 09:00	

Method Summary

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

Job ID: 180-118348-2

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: 180-118348-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-118348-1

Date Collected: 03/11/21 09:35

Matrix: Water

Date Received: 03/12/21 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			1000.76 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 17:13	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.76 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:37	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505487	04/13/21 21:33	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-2

Lab Sample ID: 180-118348-2

Date Collected: 03/10/21 08:55

Matrix: Water

Date Received: 03/12/21 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			1000.60 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 17:14	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.60 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:37	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505487	04/13/21 21:33	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3

Lab Sample ID: 180-118348-3

Date Collected: 03/10/21 10:54

Matrix: Water

Date Received: 03/12/21 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			1000.70 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 17:14	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.70 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:37	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505487	04/13/21 21:33	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-4

Lab Sample ID: 180-118348-4

Date Collected: 03/10/21 12:17

Matrix: Water

Date Received: 03/12/21 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			1000.33 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 17:14	AK	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-118348-2

Client Sample ID: WGWA-4

Lab Sample ID: 180-118348-4

Date Collected: 03/10/21 12:17

Matrix: Water

Date Received: 03/12/21 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			1000.33 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:37	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505487	04/13/21 21:33	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 180-118348-5

Date Collected: 03/10/21 17:05

Matrix: Water

Date Received: 03/12/21 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			1000.31 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 17:14	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.31 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:37	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505487	04/13/21 21:33	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-6

Lab Sample ID: 180-118348-6

Date Collected: 03/11/21 10:58

Matrix: Water

Date Received: 03/12/21 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			1000.15 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 13:20	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.15 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:37	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505487	04/13/21 21:33	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Lab Sample ID: 180-118348-7

Date Collected: 03/10/21 13:45

Matrix: Water

Date Received: 03/12/21 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			1000.34 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 13:20	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.34 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:38	ANW	TAL SL
Instrument ID: GFPCORANGE										

Lab Chronicle

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

Job ID: 180-118348-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-118348-7

Date Collected: 03/10/21 13:45

Matrix: Water

Date Received: 03/12/21 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			505487	04/13/21 21:33	SCB	TAL SL

Client Sample ID: WGWA-18

Lab Sample ID: 180-118348-8

Date Collected: 03/10/21 15:42

Matrix: Water

Date Received: 03/12/21 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			1000.62 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 13:17	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.62 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:38	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505487	04/13/21 21:33	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8

Lab Sample ID: 180-118348-9

Date Collected: 03/11/21 12:12

Matrix: Water

Date Received: 03/12/21 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			1000.28 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 13:18	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.28 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:39	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505487	04/13/21 21:33	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: Dup-1

Lab Sample ID: 180-118348-10

Date Collected: 03/10/21 00:00

Matrix: Water

Date Received: 03/12/21 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			1000.45 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 13:21	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.45 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:39	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505487	04/13/21 21:33	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-118348-2

Client Sample ID: WGWC-16

Lab Sample ID: 180-118348-11

Date Collected: 03/11/21 13:47

Matrix: Water

Date Received: 03/12/21 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			1000.43 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 13:18	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.43 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:39	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505487	04/13/21 21:33	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-17

Lab Sample ID: 180-118348-12

Date Collected: 03/11/21 12:10

Matrix: Water

Date Received: 03/12/21 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			1000.03 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 13:18	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.03 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:39	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505487	04/13/21 21:33	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1

Lab Sample ID: 180-118348-13

Date Collected: 03/11/21 11:00

Matrix: Water

Date Received: 03/12/21 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			1000.75 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 13:19	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.75 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:39	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505487	04/13/21 21:33	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-2

Lab Sample ID: 180-118348-14

Date Collected: 03/11/21 13:55

Matrix: Water

Date Received: 03/12/21 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			1000.10 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 13:19	AK	TAL SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

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

Job ID: 180-118348-2

Client Sample ID: EB-2

Date Collected: 03/11/21 13:55

Date Received: 03/12/21 08:30

Lab Sample ID: 180-118348-14

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			1000.10 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:40	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505487	04/13/21 21:33	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-1

Date Collected: 03/11/21 10:30

Date Received: 03/12/21 08:30

Lab Sample ID: 180-118348-15

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			1000.19 mL	1.0 g	502473	03/18/21 16:07	JEC	TAL SL
Total/NA	Analysis	9315		1			505214	04/09/21 13:19	AK	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.19 mL	1.0 g	502475	03/18/21 16:38	JEC	TAL SL
Total/NA	Analysis	9320		1			503373	03/26/21 12:40	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			505487	04/13/21 21:33	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Date Collected: 03/12/21 11:57

Date Received: 03/13/21 09:00

Lab Sample ID: 180-118398-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.49 mL	1.0 g	502505	03/19/21 09:03	RBR	TAL SL
Total/NA	Analysis	9315		1			505467	04/13/21 08:36	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.49 mL	1.0 g	502508	03/19/21 09:39	RBR	TAL SL
Total/NA	Analysis	9320		1			503689	03/30/21 14:18	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			505625	04/14/21 15:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10

Date Collected: 03/11/21 16:25

Date Received: 03/13/21 09:00

Lab Sample ID: 180-118398-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.22 mL	1.0 g	502505	03/19/21 09:03	RBR	TAL SL
Total/NA	Analysis	9315		1			505467	04/13/21 08:37	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.22 mL	1.0 g	502508	03/19/21 09:39	RBR	TAL SL
Total/NA	Analysis	9320		1			503689	03/30/21 14:18	ANW	TAL SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

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

Job ID: 180-118348-2

Client Sample ID: WGWC-10

Lab Sample ID: 180-118398-2

Date Collected: 03/11/21 16:25

Matrix: Water

Date Received: 03/13/21 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			505625	04/14/21 15:15	SCB	TAL SL

Client Sample ID: WGWC-11

Lab Sample ID: 180-118398-3

Date Collected: 03/12/21 11:54

Matrix: Water

Date Received: 03/13/21 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			1000.66 mL	1.0 g	502505	03/19/21 09:03	RBR	TAL SL
Total/NA	Analysis	9315		1			505467	04/13/21 08:37	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.66 mL	1.0 g	502508	03/19/21 09:39	RBR	TAL SL
Total/NA	Analysis	9320		1			503689	03/30/21 14:19	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			505625	04/14/21 15:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-13

Lab Sample ID: 180-118398-4

Date Collected: 03/11/21 13:53

Matrix: Water

Date Received: 03/13/21 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			1000.16 mL	1.0 g	502505	03/19/21 09:03	RBR	TAL SL
Total/NA	Analysis	9315		1			505467	04/13/21 08:37	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.16 mL	1.0 g	502508	03/19/21 09:39	RBR	TAL SL
Total/NA	Analysis	9320		1			503689	03/30/21 14:19	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			505625	04/14/21 15:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-14A

Lab Sample ID: 180-118398-5

Date Collected: 03/11/21 15:16

Matrix: Water

Date Received: 03/13/21 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	502505	03/19/21 09:03	RBR	TAL SL
Total/NA	Analysis	9315		1			505467	04/13/21 08:37	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.41 mL	1.0 g	502508	03/19/21 09:39	RBR	TAL SL
Total/NA	Analysis	9320		1			503689	03/30/21 14:19	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			505625	04/14/21 15:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-118348-2

Client Sample ID: WGWC-9

Lab Sample ID: 180-118398-6

Date Collected: 03/12/21 10:07

Matrix: Water

Date Received: 03/13/21 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			1000.53 mL	1.0 g	502505	03/19/21 09:03	RBR	TAL SL
Total/NA	Analysis	9315		1			505458	04/13/21 13:59	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.53 mL	1.0 g	502508	03/19/21 09:39	RBR	TAL SL
Total/NA	Analysis	9320		1			503689	03/30/21 14:19	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			505625	04/14/21 15:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-19

Lab Sample ID: 180-118398-7

Date Collected: 03/11/21 14:55

Matrix: Water

Date Received: 03/13/21 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			1000.81 mL	1.0 g	502505	03/19/21 09:03	RBR	TAL SL
Total/NA	Analysis	9315		1			505458	04/13/21 13:59	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.81 mL	1.0 g	502508	03/19/21 09:39	RBR	TAL SL
Total/NA	Analysis	9320		1			503689	03/30/21 14:19	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			505625	04/14/21 15:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: Dup-2

Lab Sample ID: 180-118398-8

Date Collected: 03/11/21 00:00

Matrix: Water

Date Received: 03/13/21 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			1000.66 mL	1.0 g	502505	03/19/21 09:03	RBR	TAL SL
Total/NA	Analysis	9315		1			505467	04/13/21 08:37	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.66 mL	1.0 g	502508	03/19/21 09:39	RBR	TAL SL
Total/NA	Analysis	9320		1			503689	03/30/21 14:20	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			505625	04/14/21 15:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-2

Lab Sample ID: 180-118398-9

Date Collected: 03/12/21 12:05

Matrix: Water

Date Received: 03/13/21 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			999.43 mL	1.0 g	502505	03/19/21 09:03	RBR	TAL SL
Total/NA	Analysis	9315		1			505467	04/13/21 08:38	ANW	TAL SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

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

Job ID: 180-118348-2

Client Sample ID: FB-2

Lab Sample ID: 180-118398-9

Date Collected: 03/12/21 12:05

Matrix: Water

Date Received: 03/13/21 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			999.43 mL	1.0 g	502508	03/19/21 09:39	RBR	TAL SL
Total/NA	Analysis	9320		1			503689	03/30/21 14:20	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			505625	04/14/21 15:15	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-12

Lab Sample ID: 180-118398-10

Date Collected: 03/12/21 10:59

Matrix: Water

Date Received: 03/13/21 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			1001.04 mL	1.0 g	502505	03/19/21 09:03	RBR	TAL SL
Total/NA	Analysis	9315		1			505467	04/13/21 08:38	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1001.04 mL	1.0 g	502508	03/19/21 09:39	RBR	TAL SL
Total/NA	Analysis	9320		1			503689	03/30/21 14:20	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			505625	04/14/21 15:15	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

JEC = Julia Crossen

RBR = Rachael Ratcliff

Batch Type: Analysis

AK = Amanda Kraus

ANW = Amber Woods

SCB = Sarah Bernsen

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-118348-1

Date Collected: 03/11/21 09:35

Matrix: Water

Date Received: 03/12/21 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	0.0714	U	0.0632	0.0635	1.00	0.0938	pCi/L	03/18/21 16:07	04/09/21 17:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					03/18/21 16:07	04/09/21 17:13	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0254	U	0.236	0.236	1.00	0.431	pCi/L	03/18/21 16:38	03/26/21 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					03/18/21 16:38	03/26/21 12:37	1
Y Carrier	84.5		40 - 110					03/18/21 16:38	03/26/21 12:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0460	U	0.244	0.244	2.00	0.431	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-118348-2

Date Collected: 03/10/21 08:55

Matrix: Water

Date Received: 03/12/21 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	-0.0177	U	0.0623	0.0624	1.00	0.131	pCi/L	03/18/21 16:07	04/09/21 17:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					03/18/21 16:07	04/09/21 17:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.396	U	0.269	0.272	1.00	0.417	pCi/L	03/18/21 16:38	03/26/21 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					03/18/21 16:38	03/26/21 12:37	1
Y Carrier	83.0		40 - 110					03/18/21 16:38	03/26/21 12:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.378	U	0.276	0.279	2.00	0.417	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWA-3

Lab Sample ID: 180-118348-3

Date Collected: 03/10/21 10:54

Matrix: Water

Date Received: 03/12/21 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	-0.0224	U	0.0385	0.0385	1.00	0.0956	pCi/L	03/18/21 16:07	04/09/21 17:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					03/18/21 16:07	04/09/21 17:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.154	U	0.196	0.197	1.00	0.385	pCi/L	03/18/21 16:38	03/26/21 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					03/18/21 16:38	03/26/21 12:37	1
Y Carrier	90.5		40 - 110					03/18/21 16:38	03/26/21 12:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.177	U	0.200	0.201	2.00	0.385	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWA-4

Lab Sample ID: 180-118348-4

Date Collected: 03/10/21 12:17

Matrix: Water

Date Received: 03/12/21 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	0.638		0.148	0.159	1.00	0.105	pCi/L	03/18/21 16:07	04/09/21 17:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		40 - 110					03/18/21 16:07	04/09/21 17:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.830		0.290	0.300	1.00	0.386	pCi/L	03/18/21 16:38	03/26/21 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		40 - 110					03/18/21 16:38	03/26/21 12:37	1
Y Carrier	89.3		40 - 110					03/18/21 16:38	03/26/21 12:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.47		0.326	0.340	2.00	0.386	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWA-5

Lab Sample ID: 180-118348-5

Date Collected: 03/10/21 17:05

Matrix: Water

Date Received: 03/12/21 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	0.0574	U	0.0602	0.0605	1.00	0.0951	pCi/L	03/18/21 16:07	04/09/21 17:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					03/18/21 16:07	04/09/21 17:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0862	U	0.213	0.213	1.00	0.370	pCi/L	03/18/21 16:38	03/26/21 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					03/18/21 16:38	03/26/21 12:37	1
Y Carrier	84.5		40 - 110					03/18/21 16:38	03/26/21 12:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.144	U	0.221	0.221	2.00	0.370	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWA-6

Lab Sample ID: 180-118348-6

Date Collected: 03/11/21 10:58

Matrix: Water

Date Received: 03/12/21 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	3.65		0.323	0.461	1.00	0.106	pCi/L	03/18/21 16:07	04/09/21 13:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		40 - 110					03/18/21 16:07	04/09/21 13:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.54		0.557	0.755	1.00	0.398	pCi/L	03/18/21 16:38	03/26/21 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		40 - 110					03/18/21 16:38	03/26/21 12:37	1
Y Carrier	85.2		40 - 110					03/18/21 16:38	03/26/21 12:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	9.20		0.644	0.885	2.00	0.398	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-118348-7

Date Collected: 03/10/21 13:45

Matrix: Water

Date Received: 03/12/21 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	0.131		0.0882	0.0889	1.00	0.124	pCi/L	03/18/21 16:07	04/09/21 13:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					03/18/21 16:07	04/09/21 13:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0935	U	0.228	0.229	1.00	0.395	pCi/L	03/18/21 16:38	03/26/21 12:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					03/18/21 16:38	03/26/21 12:38	1
Y Carrier	85.2		40 - 110					03/18/21 16:38	03/26/21 12:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.224	U	0.244	0.246	2.00	0.395	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWA-18

Lab Sample ID: 180-118348-8

Date Collected: 03/10/21 15:42

Matrix: Water

Date Received: 03/12/21 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	0.130		0.0781	0.0790	1.00	0.102	pCi/L	03/18/21 16:07	04/09/21 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					03/18/21 16:07	04/09/21 13:17	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0884	U	0.221	0.222	1.00	0.385	pCi/L	03/18/21 16:38	03/26/21 12:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					03/18/21 16:38	03/26/21 12:38	1
Y Carrier	83.4		40 - 110					03/18/21 16:38	03/26/21 12:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.218	U	0.234	0.236	2.00	0.385	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWC-8

Lab Sample ID: 180-118348-9

Date Collected: 03/11/21 12:12

Matrix: Water

Date Received: 03/12/21 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	0.451		0.125	0.132	1.00	0.108	pCi/L	03/18/21 16:07	04/09/21 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					03/18/21 16:07	04/09/21 13:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.93		0.377	0.417	1.00	0.401	pCi/L	03/18/21 16:38	03/26/21 12:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					03/18/21 16:38	03/26/21 12:39	1
Y Carrier	85.6		40 - 110					03/18/21 16:38	03/26/21 12:39	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	2.38		0.397	0.437	2.00	0.401	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: Dup-1

Lab Sample ID: 180-118348-10

Date Collected: 03/10/21 00:00

Matrix: Water

Date Received: 03/12/21 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	0.0287	U	0.0650	0.0651	1.00	0.117	pCi/L	03/18/21 16:07	04/09/21 13:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					03/18/21 16:07	04/09/21 13:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0376	U	0.167	0.167	1.00	0.299	pCi/L	03/18/21 16:38	03/26/21 12:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					03/18/21 16:38	03/26/21 12:39	1
Y Carrier	89.3		40 - 110					03/18/21 16:38	03/26/21 12:39	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	0.0662	U	0.179	0.179	2.00	0.299	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWC-16

Lab Sample ID: 180-118348-11

Date Collected: 03/11/21 13:47

Matrix: Water

Date Received: 03/12/21 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	0.191		0.0820	0.0838	1.00	0.0863	pCi/L	03/18/21 16:07	04/09/21 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					03/18/21 16:07	04/09/21 13:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.751		0.261	0.270	1.00	0.336	pCi/L	03/18/21 16:38	03/26/21 12:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					03/18/21 16:38	03/26/21 12:39	1
Y Carrier	83.4		40 - 110					03/18/21 16:38	03/26/21 12:39	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	0.942		0.274	0.283	2.00	0.336	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWC-17

Lab Sample ID: 180-118348-12

Date Collected: 03/11/21 12:10

Matrix: Water

Date Received: 03/12/21 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	0.0722	U	0.0655	0.0658	1.00	0.0990	pCi/L	03/18/21 16:07	04/09/21 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					03/18/21 16:07	04/09/21 13:18	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.175	U	0.274	0.274	1.00	0.461	pCi/L	03/18/21 16:38	03/26/21 12:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					03/18/21 16:38	03/26/21 12:39	1
Y Carrier	84.9		40 - 110					03/18/21 16:38	03/26/21 12:39	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	0.247	U	0.282	0.282	2.00	0.461	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: EB-1

Lab Sample ID: 180-118348-13

Date Collected: 03/11/21 11:00

Matrix: Water

Date Received: 03/12/21 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	0.0492	U	0.0772	0.0774	1.00	0.133	pCi/L	03/18/21 16:07	04/09/21 13:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					03/18/21 16:07	04/09/21 13:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0371	U	0.223	0.223	1.00	0.410	pCi/L	03/18/21 16:38	03/26/21 12:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					03/18/21 16:38	03/26/21 12:39	1
Y Carrier	82.6		40 - 110					03/18/21 16:38	03/26/21 12:39	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	0.0121	U	0.236	0.236	2.00	0.410	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: EB-2

Lab Sample ID: 180-118348-14

Date Collected: 03/11/21 13:55

Matrix: Water

Date Received: 03/12/21 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	-0.0236	U	0.0406	0.0406	1.00	0.101	pCi/L	03/18/21 16:07	04/09/21 13:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		40 - 110					03/18/21 16:07	04/09/21 13:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.395	U	0.228	0.231	1.00	0.482	pCi/L	03/18/21 16:38	03/26/21 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		40 - 110					03/18/21 16:38	03/26/21 12:40	1
Y Carrier	83.7		40 - 110					03/18/21 16:38	03/26/21 12:40	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.418	U	0.232	0.235	2.00	0.482	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: FB-1

Lab Sample ID: 180-118348-15

Date Collected: 03/11/21 10:30

Matrix: Water

Date Received: 03/12/21 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	0.0248	U	0.0561	0.0561	1.00	0.103	pCi/L	03/18/21 16:07	04/09/21 13:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					03/18/21 16:07	04/09/21 13:19	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0673	U	0.212	0.212	1.00	0.398	pCi/L	03/18/21 16:38	03/26/21 12:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					03/18/21 16:38	03/26/21 12:40	1
Y Carrier	83.7		40 - 110					03/18/21 16:38	03/26/21 12:40	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0426	U	0.219	0.219	2.00	0.398	pCi/L		04/13/21 21:33	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWC-15

Lab Sample ID: 180-118398-1

Date Collected: 03/12/21 11:57

Matrix: Water

Date Received: 03/13/21 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	0.225		0.0940	0.0962	1.00	0.0998	pCi/L	03/19/21 09:03	04/13/21 08:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		40 - 110					03/19/21 09:03	04/13/21 08:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.366	U	0.322	0.324	1.00	0.516	pCi/L	03/19/21 09:39	03/30/21 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		40 - 110					03/19/21 09:39	03/30/21 14:18	1
Y Carrier	82.2		40 - 110					03/19/21 09:39	03/30/21 14:18	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	0.591		0.335	0.338	2.00	0.516	pCi/L		04/14/21 15:15	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWC-10

Lab Sample ID: 180-118398-2

Date Collected: 03/11/21 16:25

Matrix: Water

Date Received: 03/13/21 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	0.0839	U	0.0687	0.0691	1.00	0.101	pCi/L	03/19/21 09:03	04/13/21 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					03/19/21 09:03	04/13/21 08:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.336	U	0.273	0.274	1.00	0.431	pCi/L	03/19/21 09:39	03/30/21 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					03/19/21 09:39	03/30/21 14:18	1
Y Carrier	84.1		40 - 110					03/19/21 09:39	03/30/21 14:18	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	0.420	U	0.282	0.283	2.00	0.431	pCi/L		04/14/21 15:15	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWC-11

Lab Sample ID: 180-118398-3

Date Collected: 03/12/21 11:54

Matrix: Water

Date Received: 03/13/21 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	0.0289	U	0.0618	0.0619	1.00	0.112	pCi/L	03/19/21 09:03	04/13/21 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					03/19/21 09:03	04/13/21 08:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0440	U	0.234	0.234	1.00	0.416	pCi/L	03/19/21 09:39	03/30/21 14:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					03/19/21 09:39	03/30/21 14:19	1
Y Carrier	85.6		40 - 110					03/19/21 09:39	03/30/21 14:19	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	0.0729	U	0.242	0.242	2.00	0.416	pCi/L		04/14/21 15:15	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWC-13

Lab Sample ID: 180-118398-4

Date Collected: 03/11/21 13:53

Matrix: Water

Date Received: 03/13/21 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	0.181		0.0851	0.0867	1.00	0.0989	pCi/L	03/19/21 09:03	04/13/21 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					03/19/21 09:03	04/13/21 08:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.292	U	0.232	0.233	1.00	0.363	pCi/L	03/19/21 09:39	03/30/21 14:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					03/19/21 09:39	03/30/21 14:19	1
Y Carrier	84.5		40 - 110					03/19/21 09:39	03/30/21 14:19	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	0.473		0.247	0.249	2.00	0.363	pCi/L		04/14/21 15:15	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWC-14A

Lab Sample ID: 180-118398-5

Date Collected: 03/11/21 15:16

Matrix: Water

Date Received: 03/13/21 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	0.225		0.0970	0.0991	1.00	0.110	pCi/L	03/19/21 09:03	04/13/21 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					03/19/21 09:03	04/13/21 08:37	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		0.322	0.325	1.00	0.489	pCi/L	03/19/21 09:39	03/30/21 14:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					03/19/21 09:39	03/30/21 14:19	1
Y Carrier	83.4		40 - 110					03/19/21 09:39	03/30/21 14:19	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	0.764		0.336	0.340	2.00	0.489	pCi/L		04/14/21 15:15	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWC-9

Lab Sample ID: 180-118398-6

Date Collected: 03/12/21 10:07

Matrix: Water

Date Received: 03/13/21 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	0.105		0.0697	0.0703	1.00	0.0950	pCi/L	03/19/21 09:03	04/13/21 13:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					03/19/21 09:03	04/13/21 13:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.726		0.302	0.309	1.00	0.422	pCi/L	03/19/21 09:39	03/30/21 14:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					03/19/21 09:39	03/30/21 14:19	1
Y Carrier	84.9		40 - 110					03/19/21 09:39	03/30/21 14:19	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	0.831		0.310	0.317	2.00	0.422	pCi/L		04/14/21 15:15	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWC-19

Lab Sample ID: 180-118398-7

Date Collected: 03/11/21 14:55

Matrix: Water

Date Received: 03/13/21 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	0.0113	U	0.0642	0.0642	1.00	0.123	pCi/L	03/19/21 09:03	04/13/21 13:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					03/19/21 09:03	04/13/21 13:59	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.275	U	0.261	0.262	1.00	0.420	pCi/L	03/19/21 09:39	03/30/21 14:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					03/19/21 09:39	03/30/21 14:19	1
Y Carrier	83.0		40 - 110					03/19/21 09:39	03/30/21 14:19	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	0.286	U	0.269	0.270	2.00	0.420	pCi/L		04/14/21 15:15	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: Dup-2
Date Collected: 03/11/21 00:00
Date Received: 03/13/21 09:00

Lab Sample ID: 180-118398-8
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	-0.00677	U	0.0475	0.0475	1.00	0.104	pCi/L	03/19/21 09:03	04/13/21 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		40 - 110					03/19/21 09:03	04/13/21 08:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.461		0.297	0.300	1.00	0.452	pCi/L	03/19/21 09:39	03/30/21 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.0		40 - 110					03/19/21 09:39	03/30/21 14:20	1
Y Carrier	84.5		40 - 110					03/19/21 09:39	03/30/21 14:20	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	0.454		0.301	0.304	2.00	0.452	pCi/L		04/14/21 15:15	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: FB-2

Lab Sample ID: 180-118398-9

Date Collected: 03/12/21 12:05

Matrix: Water

Date Received: 03/13/21 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	0.0202	U	0.0497	0.0497	1.00	0.0930	pCi/L	03/19/21 09:03	04/13/21 08:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					03/19/21 09:03	04/13/21 08:38	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	0.280	0.281	1.00	0.468	pCi/L	03/19/21 09:39	03/30/21 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					03/19/21 09:39	03/30/21 14:20	1
Y Carrier	85.6		40 - 110					03/19/21 09:39	03/30/21 14:20	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	0.221	U	0.284	0.285	2.00	0.468	pCi/L		04/14/21 15:15	1

Client Sample Results

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

Job ID: 180-118348-2

Client Sample ID: WGWC-12

Lab Sample ID: 180-118398-10

Date Collected: 03/12/21 10:59

Matrix: Water

Date Received: 03/13/21 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	0.119	U	0.0916	0.0923	1.00	0.136	pCi/L	03/19/21 09:03	04/13/21 08:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		40 - 110					03/19/21 09:03	04/13/21 08:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.513	U	0.345	0.348	1.00	0.539	pCi/L	03/19/21 09:39	03/30/21 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		40 - 110					03/19/21 09:39	03/30/21 14:20	1
Y Carrier	87.5		40 - 110					03/19/21 09:39	03/30/21 14:20	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	0.633		0.357	0.360	2.00	0.539	pCi/L		04/14/21 15:15	1

QC Sample Results

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

Job ID: 180-118348-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-502473/22-A
Matrix: Water
Analysis Batch: 505214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502473

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.04078	U	0.0319	0.0321	1.00	0.0984	pCi/L	03/18/21 16:09	04/09/21 13:20	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					03/18/21 16:09	04/09/21 13:20	1
	82.6									

Lab Sample ID: LCS 160-502473/1-A
Matrix: Water
Analysis Batch: 505214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502473

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.14		1.15	1.00	0.0989	pCi/L	98	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	88.5								

Lab Sample ID: 180-118348-12 DU
Matrix: Water
Analysis Batch: 505214

Client Sample ID: WGWC-17
Prep Type: Total/NA
Prep Batch: 502473

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0722	U	0.01275	U	0.0466	1.00	0.0913	pCi/L	0.53	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	84.7									

Lab Sample ID: MB 160-502505/23-A
Matrix: Water
Analysis Batch: 505467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502505

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01676	U	0.0674	0.0674	1.00	0.141	pCi/L	03/19/21 09:03	04/13/21 08:39	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					03/19/21 09:03	04/13/21 08:39	1
	78.8									

Lab Sample ID: LCS 160-502505/1-A
Matrix: Water
Analysis Batch: 505458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502505

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.28		1.18	1.00	0.149	pCi/L	99	75 - 125

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QC Sample Results

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

Job ID: 180-118348-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-502505/1-A
Matrix: Water
Analysis Batch: 505458

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502505

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	68.5		40 - 110

Lab Sample ID: LCSD 160-502505/2-A
Matrix: Water
Analysis Batch: 505458

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 502505

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.		RER	RER
									Limits	RER	Limit	
Radium-226	11.3	11.04		1.14	1.00	0.114	pCi/L	97	75 - 125	0.10		1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	78.8		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-502475/22-A
Matrix: Water
Analysis Batch: 503373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502475

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								Prepared	Analyzed	Prepared	Analyzed	Dil Fac
Radium-228	0.3596	U	0.266	0.268	1.00	0.416	pCi/L	03/18/21 16:38	03/26/21 12:41			1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110	03/18/21 16:38	03/26/21 12:41	1
Y Carrier	84.9		40 - 110	03/18/21 16:38	03/26/21 12:41	1

Lab Sample ID: LCS 160-502475/1-A
Matrix: Water
Analysis Batch: 503373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502475

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.	
									Limits	RER
Radium-228	7.33	7.614		0.945	1.00	0.403	pCi/L	104	75 - 125	

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	88.5		40 - 110
Y Carrier	84.5		40 - 110

Lab Sample ID: 180-118348-12 DU
Matrix: Water
Analysis Batch: 503373

Client Sample ID: WGWC-17
Prep Type: Total/NA
Prep Batch: 502475

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-228	0.175	U	0.07724	U	0.220	1.00	0.385	pCi/L	0.20	1

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QC Sample Results

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

Job ID: 180-118348-2

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

Lab Sample ID: 180-118348-12 DU
Matrix: Water
Analysis Batch: 503373

Client Sample ID: WGWC-17
Prep Type: Total/NA
Prep Batch: 502475

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	84.7		40 - 110
Y Carrier	82.6		40 - 110

Lab Sample ID: MB 160-502508/23-A
Matrix: Water
Analysis Batch: 503704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502508

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.1766	U	0.276	0.277	1.00	0.466	pCi/L	03/19/21 09:39	03/30/21 14:22	1

Carrier	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	78.8		40 - 110	03/19/21 09:39	03/30/21 14:22	1
Y Carrier	88.2		40 - 110	03/19/21 09:39	03/30/21 14:22	1

Lab Sample ID: LCS 160-502508/1-A
Matrix: Water
Analysis Batch: 503689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502508

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits

Carrier	LCS	LCS	Limits
	%Yield	Qualifier	
Ba Carrier	68.5		40 - 110
Y Carrier	83.0		40 - 110

Lab Sample ID: LCSD 160-502508/2-A
Matrix: Water
Analysis Batch: 503689

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 502508

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER
											Limit
Radium-228	7.32	8.940		1.12	1.00	0.472	pCi/L	122	75 - 125	0.21	1

Carrier	LCSD	LCSD	Limits
	%Yield	Qualifier	
Ba Carrier	78.8		40 - 110
Y Carrier	83.0		40 - 110

QC Association Summary

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

Job ID: 180-118348-2

Rad

Prep Batch: 502473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-1	WGWA-1	Total/NA	Water	PrecSep-21	
180-118348-2	WGWA-2	Total/NA	Water	PrecSep-21	
180-118348-3	WGWA-3	Total/NA	Water	PrecSep-21	
180-118348-4	WGWA-4	Total/NA	Water	PrecSep-21	
180-118348-5	WGWA-5	Total/NA	Water	PrecSep-21	
180-118348-6	WGWA-6	Total/NA	Water	PrecSep-21	
180-118348-7	WGWA-7	Total/NA	Water	PrecSep-21	
180-118348-8	WGWA-18	Total/NA	Water	PrecSep-21	
180-118348-9	WGWC-8	Total/NA	Water	PrecSep-21	
180-118348-10	Dup-1	Total/NA	Water	PrecSep-21	
180-118348-11	WGWC-16	Total/NA	Water	PrecSep-21	
180-118348-12	WGWC-17	Total/NA	Water	PrecSep-21	
180-118348-13	EB-1	Total/NA	Water	PrecSep-21	
180-118348-14	EB-2	Total/NA	Water	PrecSep-21	
180-118348-15	FB-1	Total/NA	Water	PrecSep-21	
MB 160-502473/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-502473/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-118348-12 DU	WGWC-17	Total/NA	Water	PrecSep-21	

Prep Batch: 502475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118348-1	WGWA-1	Total/NA	Water	PrecSep_0	
180-118348-2	WGWA-2	Total/NA	Water	PrecSep_0	
180-118348-3	WGWA-3	Total/NA	Water	PrecSep_0	
180-118348-4	WGWA-4	Total/NA	Water	PrecSep_0	
180-118348-5	WGWA-5	Total/NA	Water	PrecSep_0	
180-118348-6	WGWA-6	Total/NA	Water	PrecSep_0	
180-118348-7	WGWA-7	Total/NA	Water	PrecSep_0	
180-118348-8	WGWA-18	Total/NA	Water	PrecSep_0	
180-118348-9	WGWC-8	Total/NA	Water	PrecSep_0	
180-118348-10	Dup-1	Total/NA	Water	PrecSep_0	
180-118348-11	WGWC-16	Total/NA	Water	PrecSep_0	
180-118348-12	WGWC-17	Total/NA	Water	PrecSep_0	
180-118348-13	EB-1	Total/NA	Water	PrecSep_0	
180-118348-14	EB-2	Total/NA	Water	PrecSep_0	
180-118348-15	FB-1	Total/NA	Water	PrecSep_0	
MB 160-502475/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-502475/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-118348-12 DU	WGWC-17	Total/NA	Water	PrecSep_0	

Prep Batch: 502505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-1	WGWC-15	Total/NA	Water	PrecSep-21	
180-118398-2	WGWC-10	Total/NA	Water	PrecSep-21	
180-118398-3	WGWC-11	Total/NA	Water	PrecSep-21	
180-118398-4	WGWC-13	Total/NA	Water	PrecSep-21	
180-118398-5	WGWC-14A	Total/NA	Water	PrecSep-21	
180-118398-6	WGWC-9	Total/NA	Water	PrecSep-21	
180-118398-7	WGWC-19	Total/NA	Water	PrecSep-21	
180-118398-8	Dup-2	Total/NA	Water	PrecSep-21	
180-118398-9	FB-2	Total/NA	Water	PrecSep-21	

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QC Association Summary

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

Job ID: 180-118348-2

Rad (Continued)

Prep Batch: 502505 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-10	WGWC-12	Total/NA	Water	PrecSep-21	
MB 160-502505/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-502505/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-502505/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 502508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118398-1	WGWC-15	Total/NA	Water	PrecSep_0	
180-118398-2	WGWC-10	Total/NA	Water	PrecSep_0	
180-118398-3	WGWC-11	Total/NA	Water	PrecSep_0	
180-118398-4	WGWC-13	Total/NA	Water	PrecSep_0	
180-118398-5	WGWC-14A	Total/NA	Water	PrecSep_0	
180-118398-6	WGWC-9	Total/NA	Water	PrecSep_0	
180-118398-7	WGWC-19	Total/NA	Water	PrecSep_0	
180-118398-8	Dup-2	Total/NA	Water	PrecSep_0	
180-118398-9	FB-2	Total/NA	Water	PrecSep_0	
180-118398-10	WGWC-12	Total/NA	Water	PrecSep_0	
MB 160-502508/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-502508/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-502508/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	



Chain of Custody Record



Client Information		Sampler: <u>R. Walker / H. Aid / T. Goble</u>		Lab PM: <u>Brown, Shali</u>		Carrier Tracking No(s):		COC No:	
Client Contact: <u>SCS Contacts</u>		Phone: <u>770-594-5998</u>		E-Mail: <u>shali.brown@eurofinset.com</u>		Page: <u>1 of 2</u>		Job #:	
Company: <u>GA Power</u>		Address: <u>241 Ralph McGill Blvd SE</u>		City: <u>Atlanta</u>		State, Zip: <u>GA, 30308</u>		Phone: <u>404-506-7116(Tel)</u>	
Email: <u>SCS Contacts</u>		PO #: <u>SCS10382606</u>		WO #: <u>18019922</u>		Project #: <u>CCR - Plant Wansley Ash Pond</u>		Site: <u></u>	
Due Date Requested:		TAT Requested (days):		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Analysis Requested	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=sediment, O=water/soil, BT=issue, AA=air)	
WG-WA-1		3-11-21		0935		G		Water	
WG-WA-2		3-10-21		0855		G		Water	
WG-WA-3		3-10-21		1054		G		Water	
WG-WA-4		3-10-21		1217		G		Water	
WG-WA-5		3-10-21		1705		G		Water	
WG-WA-6		3-11-21		1058		G		Water	
WG-WA-7		3-10-21		1345		G		Water	
WG-WA-18		3-10-21		1542		G		Water	
WG-WC-8		3-11-21		1212		G		Water	
Dup-1		3-10-21		---		G		Water	
Special Instructions/Note: <u>App III and App IV Event</u>		Total Number of Containers		pH= <u>5.26</u>		pH= <u>6.11</u>		pH= <u>5.49</u>	
				pH= <u>7.19</u>		pH= <u>5.22</u>		pH= <u>7.93</u>	
				pH= <u>4.96</u>		pH= <u>5.80</u>		pH= <u>5.35</u>	
				pH= <u></u>		pH= <u></u>		pH= <u></u>	
				pH= <u></u>		pH= <u></u>		pH= <u></u>	
Possible Hazard Identification		Poison B <input checked="" type="checkbox"/>		Skin Irritant <input type="checkbox"/>		Flammable <input type="checkbox"/>		Non-Hazard <input type="checkbox"/>	
Deliverable Requested: I, II, III, IV, Other (specify)		Radiological <input type="checkbox"/>		Unknown <input checked="" type="checkbox"/>		Archive For <u>Months</u>		Return To Client <input checked="" type="checkbox"/>	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		Special Instructions/QC Requirements:	
Relinquished by: <u>Abdullah</u>		Date: <u>3-11-21/1645</u>		Time: <u>16:45</u>		Company: <u>GA</u>		Received by: <u>Shali Brown</u>	
Relinquished by: <u>Shali Brown</u>		Date: <u>3/11/21</u>		Time: <u>17:00</u>		Company: <u>GA</u>		Received by: <u>Shali Brown</u>	
Relinquished by: <u>Shali Brown</u>		Date: <u>3/11/21</u>		Time: <u>17:00</u>		Company: <u>GA</u>		Received by: <u>Shali Brown</u>	
Custody Seals Intact: <u>Yes</u>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		pH= <u>5.26</u>		pH= <u>6.11</u>	



Chain of Custody Record

Client Information		Sampler: <u>R. Walker/H. Add/T. Goble</u>		Lab PM: <u>Brown, Shali</u>	Carrier Tracking No(s):		COC No:							
Client Contact: <u>SCS Contacts</u>		Phone: <u>770-594-5998</u>		E-Mail: <u>shali.brown@euofinset.com</u>			Page: <u>2 of 2</u>							
Company: <u>GA Power</u>						Job #:								
Address: <u>241 Ralph McGill Blvd SE</u>		Due Date Requested:		Analysis Requested										
City: <u>Atlanta</u>		TAT Requested (days):												
State, Zip: <u>GA, 30308</u>														
Phone: <u>404-506-7116(Tel)</u>														
Email: <u>SCS Contacts</u>														
Project Name: <u>CCR - Plant Wansley Ash Pond</u>		Project #: <u>18019922</u>		Total Number of Containers										
Site: <u></u>		SSOW#: <u></u>		Special Instructions/Note: App III and App IV Event										
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, s=solid, o=soil, BT=tissue, A=AI)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals (B, Ca)	Cl, F, SO & TDS (EPA 300 & SM 2540c)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity, Iron, Magnesium, Manganese, Potassium, Sodium, Sulfide	Detected App IV Metals (EPA 6020/470):	Sb, As, Ba, Be, Cr, Co, Pb, Li, Mo, Se, Ti	Radium 226 & 228 (SW-846 9315/9320)	Preservation Codes:	Special Instructions/Note:
<u>WG-WC-16</u>	<u>3-11-21</u>	<u>1347</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>M - Hexane</u>	<u>pH= 5.21</u>
<u>WG-WC-17</u>	<u>3-11-21</u>	<u>1210</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>N - None</u>	<u>pH= 5.96</u>
<u>EB-1</u>	<u>3-11-21</u>	<u>1100</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>O - AsNaO2</u>	<u>pH=</u>
<u>EB-2</u>	<u>3-11-21</u>	<u>1355</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>P - Na2O4S</u>	<u>pH=</u>
<u>FB-1</u>	<u>3-11-21</u>	<u>1030</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>Q - NaHSO4</u>	<u>pH=</u>
			<u>G</u>	<u>Water</u>									<u>R - Na2SO3</u>	<u>pH=</u>
			<u>G</u>	<u>Water</u>									<u>S - H2SO4</u>	<u>pH=</u>
			<u>G</u>	<u>Water</u>									<u>T - TSP Dodecahydrate</u>	<u>pH=</u>
			<u>G</u>	<u>Water</u>									<u>U - Acetone</u>	<u>pH=</u>
			<u>G</u>	<u>Water</u>									<u>V - MCAA</u>	<u>pH=</u>
			<u>G</u>	<u>Water</u>									<u>W - pH 4-5</u>	<u>pH=</u>
			<u>G</u>	<u>Water</u>									<u>Z - other (specify)</u>	<u>pH=</u>
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)										
Deliverable Requested: I, II, III, IV, Other (specify)				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Empty Kit Relinquished by:		Date: _____		Special Instructions/QC Requirements:										
Relinquished by: <u>Shali Brown</u>		Date: <u>3/11/21</u>		Method of Shipment:										
Relinquished by: <u>Shali Brown</u>		Date: <u>3/11/21</u>		Received by: <u>Shali Brown</u>										
Relinquished by: <u>Shali Brown</u>		Date: <u>3/11/21</u>		Received by: <u>Shali Brown</u>										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: <u>8130</u>		Cooler Temperature(s) °C and Other Remarks:										




Chain of Custody Record

Client Information		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:						
Client Contact: SCS Contacts		E-Mail: Shelli.brown@eurofinset.com		Brown, Shelli				Page: 1 of 1						
Company: GA Power		Phone: 770-544-5998		E-Mail: Shelli.brown@eurofinset.com				Job #:						
<p>Address: 241 Ralph McGill Blvd SE City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7116(Tel) E-mail: SCS Contacts Project Name: CCR - Plant Wansley Ash Pond Site:</p>														
<p>Due Date Requested: TAT Requested (days): PO #: SCS10382606 WO #: Project #: 18019922 SSOW#:</p>														
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil, etc.)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals (B, Ca)	CI, F, SO & TDS (EPA 300 & SM 2540C)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity, Iron, Magnesium, Manganese, Potassium, Sodium, Sulfide	Detected App IV Metals (EPA 6020/7470):	Sb, As, Ba, Be, Cr, Co, Pb, Li, Mo, Se, Tl	Radium 226 & 228 (SW-646 9315/9320)	Special Instructions/Note: App III and App IV Event
WGWC-9 (H)	3-12-21	1157	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 7.72
WGWC-10	3-11-21	1625	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 6.56
WGWC-11	3-12-21	1154	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 5.46
WGWC-13	3-11-21	1353	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 5.95
WGWC-14A	3-11-21	1516	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 5.10
WGWC-15 (H)	3-12-21	1407	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 5.88 + note=1007
WGWC-19	3-11-21	1455	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 7.12
Dup-2	3-11-21		G	Water		N		✓	✓	✓	✓	✓	✓	pH=
FB-2	3-12-21	1205	G	Water		N		✓	✓	✓	✓	✓	✓	pH=
WGWC-12	3-12-21	1059	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 6.66
			G	Water		N								pH=

Analysis Requested

180-118398 Chain of Custody



hydrate

Other:

Total Number of containers

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	Preservation Code	Field Filtered Sample	Perform MS/MSD	App III Metals	CI, F, SO & TDS	Major Ions	Detected App IV Metals	Sb, As, Ba, Be, Cr, Co, Pb, Li, Mo, Se, Tl	Radium 226 & 228	Special Instructions/Note
WGWC-9	3-12-21	1157	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 7.72
WGWC-10	3-11-21	1625	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 6.56
WGWC-11	3-12-21	1154	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 5.46
WGWC-13	3-11-21	1353	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 5.95
WGWC-14A	3-11-21	1516	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 5.10
WGWC-15 (H)	3-12-21	1407	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 5.88 + note=1007
WGWC-19	3-11-21	1455	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 7.12
Dup-2	3-11-21		G	Water		N		✓	✓	✓	✓	✓	✓	pH=
FB-2	3-12-21	1205	G	Water		N		✓	✓	✓	✓	✓	✓	pH=
WGWC-12	3-12-21	1059	G	Water		N		✓	✓	✓	✓	✓	✓	pH= 6.66

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:	Time:	Method of Shipment:
Relinquished by: [Signature]	3-12-21	1530	Company: ACC
Relinquished by: [Signature]	3/12/21	16:00	Company: EPA
Relinquished by: [Signature]			Company:

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:

Relinquished by:	Date:	Time:	Company:
Relinquished by: [Signature]	3-12-21	15:30	ACC
Relinquished by: [Signature]	3/12/21	16:00	EPA
Relinquished by: [Signature]			

Custody Seals Intact:

Δ Yes Δ No

Custody Seal No.:

Ver: 01/16/2019



180-118348 Waybill

Ref: PLT WANSLEY ACCC Date: 11Mar21	SHIPPING:	0.00
Wgt: 58.40 LBS	SPECIAL:	0.00
DV:	HANDLING:	0.00
	TOTAL:	0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6580



Environment Testing
TestAmerica

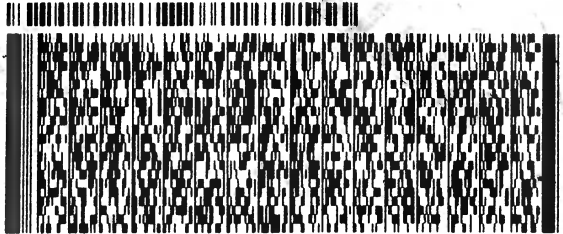
Pat # 159469-484 RITZ EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECEIPT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: PLT WANSLEY ACCC



FedEx
Express



120112012186114

3 of 6
MPS# 1516 9328 6580
0263
Mstr# 1516 9328 6568

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

15238
PA-US PIT

Uncorrected temp _____ °C
Thermometer ID _____

CF 0 Initials ST

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



DV: 0.00 TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6605

Part # 159409-434 RITZ EXP 11/18



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

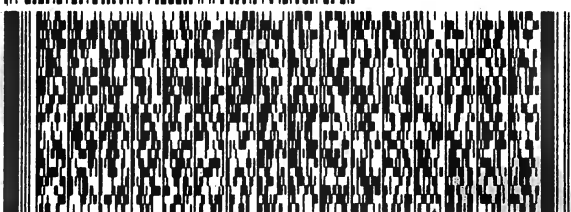
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 963-7058
REF: PLT WANSLEY ACCC

011 000010 000001 01 00000 11 0 0000 11 0 0000 11 0 0000 11 0 00



FedEx
Express



010151610211021

5 of 6

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

MPS# 1516 9328 6605

Mstr# 1516 9328 6568

0201

NA AGCA

15238
PA-US **PIT**

Uncorrected temp 22 °C
Thermometer ID 14

CF 0 Initials J

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



011 000010 000001 01 00000 11 0 0000 11 0 0000 11 0 0000 11 0 00



Ref: PLT WANSLEY ACCC	Date: 11Mar21	SHIPPING:	0.00
Dep:	Wgt: 58.40 LBS	SPECIAL:	0.00
	DV:	HANDLING:	0.00
		0.00 TOTAL:	0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRACK: 1516 9328 6579



Environment Testing
TestAmerica

Part # 15968-436 RITZ EXP 11/21

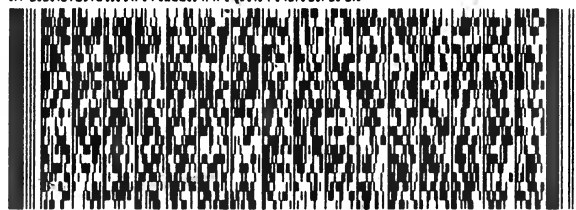
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 963-7068
REF: PLT WANSLEY ACCC



FedEx
Express



J20112012180114

2 of 6
MPS# 1516 9328 6579
0263
Mstr# 1516 9328 6568

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

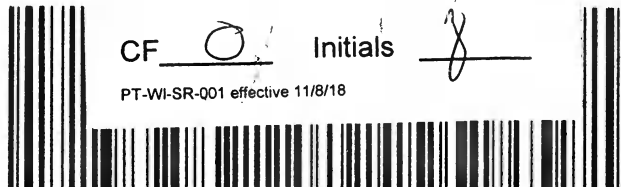
15238
PIT

Uncorrected temp
Thermometer ID

2.9 °C
19

CF 0 Initials 8

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



Ref: PLT WANSLEY ACCC Date: 11Mar21
Dep: Wgt: 58.40 LBS
DV: 0.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6616



Environment Testing
TestAmerica

3469-434 RITZ EXP 1121

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

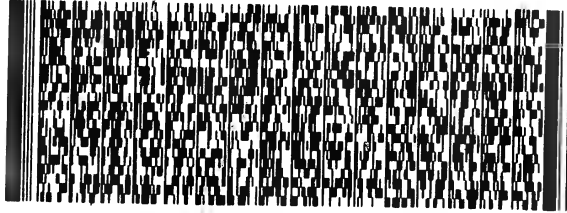
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 963-7068

REF: PLT WANSLEY ACCC



FedEx
Express



6 of 6

MPS# 1516 9328 6616

Mstr# 1516 9328 6568

0201

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

Uncorrected temp
Thermometer ID

2.5
19 °C

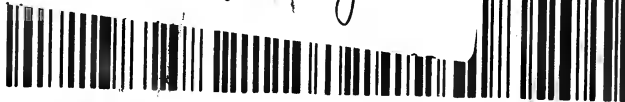
15238

PA-US

PIT

CF Initials

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



Do Not Lift Using This Tag

Ref: PLT WANSLEY ACCC Date: 11Mar21 SHIPPING: 0.00
Dep: Wgt: 58.40 LBS SPECIAL: 0.00
DV: 0.00 HANDLING: 0.00
TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRCK: 1516 9328 6590



Environment Testing
TestAmerica

Part # 159469-434 RITZ EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

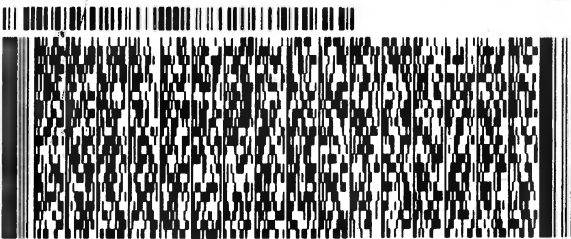
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 863-7068

REF: PLT WANSLEY ACCC



FedEx
Express



AN100102120211021

4 of 6
MPS# 1516 9328 6590
0263
Mstr# 1516 9328 6568

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

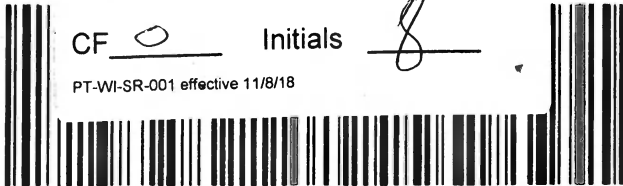
15238
PIT

Uncorrected temp
Thermometer ID

2.5 °C US
119

CF 0 Initials 8

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





Do Not Lift Using This Tag



**Environment Testing
TestAmerica**

Pat # 159465-434 RIT2 EXP 11/21

ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

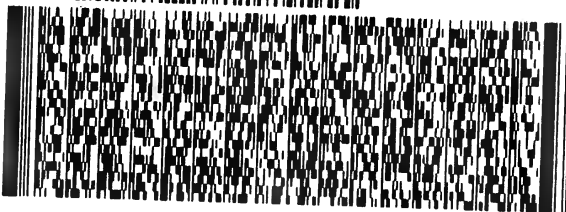
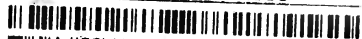
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 963-7058

REF: PLT WANSLEY ACCC



**FedEx
Express**



AN1031210211021

1 of 6
TRK# 1516 9328 6568
0201
MASTER

**FRI - 12 MAR 4:30P
STANDARD OVERNIGHT**

NA AGCA

Uncorrected temp
Thermometer ID

2.8 °C
14
us PIT

CF Initials

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



Do Not Lift L

639

Tao

FZ

Part # 159469-434 RIT2 EXP 11/21



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

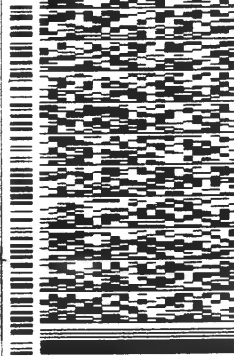
SHIP DATE: 12MAR21
ACTWGT: 60.05 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO SAMPLE RECEIVING

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

(412) 963-7058
REF: ACC



FedEx
Express



2 of 3
SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# 1516 9328 6980

Mstr# 0263

Uncorrected temp

Thermometer ID

3.5 °C

14

Initials

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

15238

PIT

A-US



FedEx Saturday Delivery

151967 REY

Do Not Lift Using This Tag



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

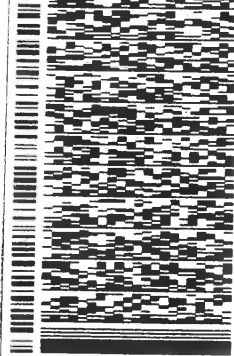
SHIP DATE: 12MAR21
ACTWGT: 60.05 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

TO SAMPLE RECEIVING

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

(412) 963-7058
REF: ACC



FedEx
Express



1 of 3
SATURDAY 12:00
PRIORITY OVERNIGHT

TRK# 1516 9328 6970

0201

MASTER

XO AGCA

15238

PA-US

PI

31240 #M

12

13

1
2
3
4
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6
7
8
9
10
11



180-118398 Waybill

Do Not Lift Using This Tag



Env
TestA

RT 639
FZ

12:00 6991
03.13

EXP 11/21

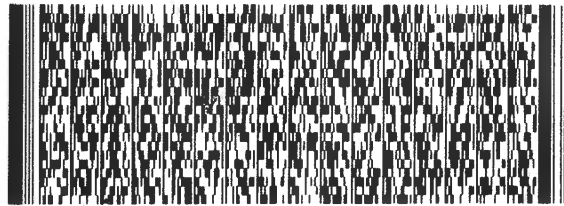
ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 12MAR21
ACTWGT: 60.05 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 963-7058
REF: ACC



FedEx
Express



BY 10001212011107

3 of 3

MPS# 1516 9328 6991
0263

Mstr# 1516 9328 6970

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 AGCA

Uncorrected temp
Thermometer ID

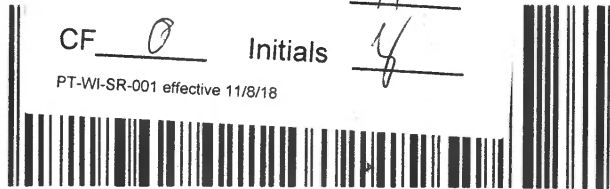
2.6 °C

14

CF 0 Initials Y

15238
PA-US PIT

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



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-428867.1
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@Eurofins.com	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):	Job #: 180-118348-2
Address: 13715 Rider Trail North, Earth City 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 Other:	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		M - Hexane N - None O - AshNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Email:			
Project #: 18019922			
SSOW#:			
Due Date Requested: 4/15/2021			
TAT Requested (days):			
PO #:			
WO #:			
Project Name: CCR - Plant Wansley Ash Pond			
Site: Wansley CCR			
Sample Identification - Client ID (Lab ID)		Special Instructions/Note:	
WGWA-1 (180-118348-1)	Sample Date: 3/11/21	Sample Time: 09:35 Eastern	Matrix: Water
WGWA-2 (180-118348-2)	Sample Date: 3/10/21	Sample Time: 08:55 Eastern	Matrix: Water
WGWA-3 (180-118348-3)	Sample Date: 3/10/21	Sample Time: 10:54 Eastern	Matrix: Water
WGWA-4 (180-118348-4)	Sample Date: 3/10/21	Sample Time: 12:17 Eastern	Matrix: Water
WGWA-5 (180-118348-5)	Sample Date: 3/10/21	Sample Time: 17:05 Eastern	Matrix: Water
WGWA-6 (180-118348-6)	Sample Date: 3/11/21	Sample Time: 10:58 Eastern	Matrix: Water
WGWA-7 (180-118348-7)	Sample Date: 3/10/21	Sample Time: 13:45 Eastern	Matrix: Water
WGWA-8 (180-118348-8)	Sample Date: 3/10/21	Sample Time: 15:42 Eastern	Matrix: Water
WGWC-8 (180-118348-9)	Sample Date: 3/11/21	Sample Time: 12:12 Eastern	Matrix: Water
Field Filtered Sample (Yes or No)		Total Number of Containers	
Perform MSM/SD (Yes or No)			
9320_Ra226/PreSep_0 Radium 228		X	
9315_Ra226/PreSep_21 Radium 226		X	
R226Ra228_GFP/Combined Radium 226 and Radium 228		X	
Analysis Requested			

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/ests/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

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: _____ Time: _____
 Relinquished by: _____ Date/Time: 3/10/21 17:00 Company: EFA PT
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: 3/11/21 09:05 Company: ETHA
 Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record

Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 180-428867.2								
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@Eurofinset.com	State of Origin: Georgia	Page: Page 2 of 2								
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North, Earth City, MO, 63045	Job #: 180-118348-2	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 - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)								
Due Date Requested: 4/15/2021		Project #: 18019922	Accreditations Required (See note):									
TAT Requested (days):		SSOW#:	Analysis Requested									
PO #:	WO #:	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteflow, BT=BIOSUB, A=AAK)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra228/PreSep_0 Radium 228	9315_Ra226/PreSep_21 Radium 226	Ra226Ra228_GFP/Combined Radium 226 and Radium 228	Total Number of containers	Special Instructions/Note:
		3/10/21	Eastern	Water	Water	X	X	X	X	X	2	
		3/11/21	13:47 Eastern	Water	Water	X	X	X	X	X	2	
		3/11/21	12:10 Eastern	Water	Water	X	X	X	X	X	4	
		3/11/21	11:00 Eastern	Water	Water	X	X	X	X	X	2	
		3/11/21	13:55 Eastern	Water	Water	X	X	X	X	X	2	
		3/11/21	10:30 Eastern	Water	Water	X	X	X	X	X	2	

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 laboratory does not currently maintain accreditation in the State of Origin listed above, 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: *NY* Date: 3/10/21 1700 Company: **FED EX**
 Relinquished by: **FED EX** Date: 3/10/21 1700 Company: **FED EX**
 Relinquished by: *Shali Brown* Date: 3/17/21 0905 Company: **ETAAR**
 Custody Seals Intact: Yes 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)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118348-2

Login Number: 118348

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: 180-118348-2

Login Number: 118348

List Source: Eurofins TestAmerica, St. Louis

List Number: 2

List Creation: 03/17/21 11:11 AM

Creator: Worthington, Sierra M

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: 180-118348-2

Login Number: 118398

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	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118348-2

Login Number: 118398

List Source: Eurofins TestAmerica, St. Louis

List Number: 2

List Creation: 03/17/21 11:11 AM

Creator: Worthington, Sierra M

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: 180-118350-1

Client Project/Site: Plant Wansley Ash Pond PZ
Revision: 1

For:

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

Attn: Kristen N Jurinko



Authorized for release by:
5/4/2021 5:59:51 PM

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 Ash Pond PZ

Job ID: 180-118350-1

Job ID: 180-118350-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-118350-1

Comments

050421 Revised repot to add Lithium to the following samples at client request: 180-118350-2 (PZ-25S), 180-118350-3 (PZ-26S). This report replaces the report previously issued on 032221.

Receipt

The samples were received on 3/12/2021 8:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.5° C, 2.5° C, 2.5° C, 2.8° C, 2.9° C and 3.2° C.

GC Semi VOA

Method 300.0: The method blank for analytical batch 180-349310 contained Sulfate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 349781 recovered above the upper control limit for boron. The samples associated with this CCV were non-detects 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.

Field Service / Mobile Lab

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

General Chemistry

Method SM 2540C: The following samples were analyzed outside of analytical holding time due to analyst error. PZ-23D (180-118350-1), PZ-25S (180-118350-2), PZ-26S (180-118350-3), PZ-26D (180-118350-4), PZ-28 (180-118350-5), EB-2 (180-118350-6), Dup-2 (180-118350-7) and FB-2 (180-118350-8).

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 Ash Pond PZ

Job ID: 180-118350-1

Qualifiers

HPLC/IC

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.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

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 Ash Pond PZ

Job ID: 180-118350-1

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	09-30-22
Florida	NELAP	E871008	06-30-21
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-21
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-21
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	07-31-21
New Hampshire	NELAP	2030	04-04-21
New Jersey	NELAP	PA005	06-30-21
New York	NELAP	11182	03-31-21
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-21
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	01-31-22
Wisconsin	State	998027800	08-31-21

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-118350-1	PZ-23D	Water	03/09/21 14:50	03/12/21 08:30	
180-118350-2	PZ-25S	Water	03/09/21 16:42	03/12/21 08:30	
180-118350-3	PZ-26S	Water	03/09/21 14:34	03/12/21 08:30	
180-118350-4	PZ-26D	Water	03/09/21 13:38	03/12/21 08:30	
180-118350-5	PZ-28	Water	03/09/21 15:33	03/12/21 08:30	
180-118350-6	EB-2	Water	03/09/21 17:25	03/12/21 08:30	
180-118350-7	Dup-2	Water	03/09/21 00:00	03/12/21 08:30	
180-118350-8	FB-2	Water	03/09/21 14:20	03/12/21 08:30	
180-118350-9	PZ-29D	Water	03/11/21 12:25	03/12/21 08:30	

Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

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 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-23D

Lab Sample ID: 180-118350-1

Date Collected: 03/09/21 14:50

Matrix: Water

Date Received: 03/12/21 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		1			349310	03/13/21 12:39	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	349566	03/16/21 11:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349781	03/17/21 13:14	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	9030B			50 mL	50 mL	349361	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349549	03/15/21 14:01	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349924	03/18/21 18:17	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			349682	03/17/21 02:31	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349443	03/09/21 14:50	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: PZ-25S

Lab Sample ID: 180-118350-2

Date Collected: 03/09/21 16:42

Matrix: Water

Date Received: 03/12/21 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		1			349310	03/13/21 11:45	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	349566	03/16/21 11:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349781	03/17/21 13:32	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349551	03/15/21 14:26	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349924	03/18/21 18:17	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			349682	03/17/21 02:59	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349443	03/09/21 16:42	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: PZ-26S

Lab Sample ID: 180-118350-3

Date Collected: 03/09/21 14:34

Matrix: Water

Date Received: 03/12/21 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		1			349310	03/13/21 11:10	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	349566	03/16/21 11:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349781	03/17/21 13:35	RSK	TAL PIT
Instrument ID: A										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-26S

Lab Sample ID: 180-118350-3

Date Collected: 03/09/21 14:34

Matrix: Water

Date Received: 03/12/21 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	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349551	03/15/21 14:35	CMR	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349924	03/18/21 18:17	KMM	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			349682	03/17/21 03:16	REI	TAL PIT
		Instrument ID: PCTITRATOR								
Total/NA	Analysis	Field Sampling		1			349443	03/09/21 14:34	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: PZ-26D

Lab Sample ID: 180-118350-4

Date Collected: 03/09/21 13:38

Matrix: Water

Date Received: 03/12/21 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		1			349310	03/13/21 10:16	SAT	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	349566	03/16/21 11:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349781	03/17/21 13:39	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349551	03/15/21 14:38	CMR	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349924	03/18/21 18:17	KMM	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			349682	03/17/21 03:25	REI	TAL PIT
		Instrument ID: PCTITRATOR								
Total/NA	Analysis	Field Sampling		1			349443	03/09/21 13:38	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: PZ-28

Lab Sample ID: 180-118350-5

Date Collected: 03/09/21 15:33

Matrix: Water

Date Received: 03/12/21 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		1			349310	03/13/21 13:32	SAT	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	349566	03/16/21 11:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349781	03/17/21 13:50	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349551	03/15/21 14:40	CMR	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349924	03/18/21 18:17	KMM	TAL PIT
		Instrument ID: NOEQUIP								

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-28

Date Collected: 03/09/21 15:33

Date Received: 03/12/21 08:30

Lab Sample ID: 180-118350-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM2320 B		1			349682	03/17/21 03:34	REI	TAL PIT
Total/NA	Analysis	Field Sampling		1			349443	03/09/21 15:33	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-2

Date Collected: 03/09/21 17:25

Date Received: 03/12/21 08:30

Lab Sample ID: 180-118350-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			349310	03/13/21 09:40	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	349566	03/16/21 11:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349781	03/17/21 13:53	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349551	03/15/21 14:43	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349924	03/18/21 18:17	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			349682	03/17/21 03:43	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: Dup-2

Date Collected: 03/09/21 00:00

Date Received: 03/12/21 08:30

Lab Sample ID: 180-118350-7

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			349310	03/13/21 13:15	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	349566	03/16/21 11:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349781	03/17/21 13:57	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349551	03/15/21 14:46	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349924	03/18/21 18:17	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			349682	03/17/21 03:52	REI	TAL PIT
Instrument ID: PCTITRATOR										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: FB-2

Lab Sample ID: 180-118350-8

Date Collected: 03/09/21 14:20

Matrix: Water

Date Received: 03/12/21 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		1			349310	03/13/21 09:58	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	349566	03/16/21 11:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349781	03/17/21 14:01	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349551	03/15/21 14:55	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349924	03/18/21 18:17	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			349682	03/17/21 04:01	REI	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: PZ-29D

Lab Sample ID: 180-118350-9

Date Collected: 03/11/21 12:25

Matrix: Water

Date Received: 03/12/21 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		1			349310	03/13/21 12:57	SAT	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	349566	03/16/21 11:51	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			349781	03/17/21 14:04	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	9030B			50 mL	50 mL	349362	03/15/21 09:45	CMR	TAL PIT
Total/NA	Analysis	EPA 9034		1			349551	03/15/21 14:58	CMR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	349924	03/18/21 18:17	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			349682	03/17/21 04:10	REI	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			349443	03/11/21 12:25	FDS	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

CMR = Carl Reagle

KEM = Kimberly Mahoney

Batch Type: Analysis

CMR = Carl Reagle

FDS = Sampler Field

KMM = Kendric Moore

REI = Rachel Innocenzi

RSK = Robert Kurtz

SAT = Stephen Tallam

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Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-23D

Lab Sample ID: 180-118350-1

Date Collected: 03/09/21 14:50

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36		1.0	0.71	mg/L			03/13/21 12:39	1
Sulfate	100	B	1.0	0.76	mg/L			03/13/21 12:39	1
Fluoride	2.3		0.10	0.026	mg/L			03/13/21 12:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.62		0.080	0.039	mg/L		03/16/21 11:51	03/17/21 13:14	1
Calcium	50		0.50	0.13	mg/L		03/16/21 11:51	03/17/21 13:14	1
Iron	1.4		0.050	0.020	mg/L		03/16/21 11:51	03/17/21 13:14	1
Magnesium	8.5		0.50	0.083	mg/L		03/16/21 11:51	03/17/21 13:14	1
Manganese	2.4	B	0.0050	0.00087	mg/L		03/16/21 11:51	03/17/21 13:14	1
Potassium	6.5		0.50	0.16	mg/L		03/16/21 11:51	03/17/21 13:14	1
Sodium	35		0.50	0.35	mg/L		03/16/21 11:51	03/17/21 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 14:01	1
Total Dissolved Solids	300	H	10	10	mg/L			03/18/21 18:17	1
Total Alkalinity as CaCO ₃ to pH 4.5	84		5.0	5.0	mg/L			03/17/21 02:31	1
Bicarbonate Alkalinity as CaCO ₃	84		5.0	5.0	mg/L			03/17/21 02:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.85				SU			03/09/21 14:50	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-25S

Lab Sample ID: 180-118350-2

Date Collected: 03/09/21 16:42

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.5		1.0	0.71	mg/L			03/13/21 11:45	1
Sulfate	14	B	1.0	0.76	mg/L			03/13/21 11:45	1
Fluoride	0.092	J	0.10	0.026	mg/L			03/13/21 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.073	J	0.080	0.039	mg/L		03/16/21 11:51	03/17/21 13:32	1
Calcium	3.2		0.50	0.13	mg/L		03/16/21 11:51	03/17/21 13:32	1
Iron	0.18		0.050	0.020	mg/L		03/16/21 11:51	03/17/21 13:32	1
Magnesium	0.49	J	0.50	0.083	mg/L		03/16/21 11:51	03/17/21 13:32	1
Manganese	0.063	B	0.0050	0.00087	mg/L		03/16/21 11:51	03/17/21 13:32	1
Potassium	2.4		0.50	0.16	mg/L		03/16/21 11:51	03/17/21 13:32	1
Sodium	17		0.50	0.35	mg/L		03/16/21 11:51	03/17/21 13:32	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/16/21 11:51	03/17/21 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 14:26	1
Total Dissolved Solids	79	H	10	10	mg/L			03/18/21 18:17	1
Total Alkalinity as CaCO3 to pH 4.5	45		5.0	5.0	mg/L			03/17/21 02:59	1
Bicarbonate Alkalinity as CaCO3	45		5.0	5.0	mg/L			03/17/21 02:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.81				SU			03/09/21 16:42	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-26S

Lab Sample ID: 180-118350-3

Date Collected: 03/09/21 14:34

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		1.0	0.71	mg/L			03/13/21 11:10	1
Sulfate	140	B	1.0	0.76	mg/L			03/13/21 11:10	1
Fluoride	1.0		0.10	0.026	mg/L			03/13/21 11:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.8		0.080	0.039	mg/L		03/16/21 11:51	03/17/21 13:35	1
Calcium	65		0.50	0.13	mg/L		03/16/21 11:51	03/17/21 13:35	1
Iron	<0.020		0.050	0.020	mg/L		03/16/21 11:51	03/17/21 13:35	1
Magnesium	17		0.50	0.083	mg/L		03/16/21 11:51	03/17/21 13:35	1
Manganese	4.7	B	0.0050	0.00087	mg/L		03/16/21 11:51	03/17/21 13:35	1
Potassium	13		0.50	0.16	mg/L		03/16/21 11:51	03/17/21 13:35	1
Sodium	18		0.50	0.35	mg/L		03/16/21 11:51	03/17/21 13:35	1
Lithium	0.0084		0.0050	0.0034	mg/L		03/16/21 11:51	03/17/21 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 14:35	1
Total Dissolved Solids	370	H	10	10	mg/L			03/18/21 18:17	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/17/21 03:16	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/21 03:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.29				SU			03/09/21 14:34	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-26D

Lab Sample ID: 180-118350-4

Date Collected: 03/09/21 13:38

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20		1.0	0.71	mg/L			03/13/21 10:16	1
Sulfate	46	B	1.0	0.76	mg/L			03/13/21 10:16	1
Fluoride	0.26		0.10	0.026	mg/L			03/13/21 10:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.22		0.080	0.039	mg/L		03/16/21 11:51	03/17/21 13:39	1
Calcium	17		0.50	0.13	mg/L		03/16/21 11:51	03/17/21 13:39	1
Iron	0.76		0.050	0.020	mg/L		03/16/21 11:51	03/17/21 13:39	1
Magnesium	2.7		0.50	0.083	mg/L		03/16/21 11:51	03/17/21 13:39	1
Manganese	0.23	B	0.0050	0.00087	mg/L		03/16/21 11:51	03/17/21 13:39	1
Potassium	2.3		0.50	0.16	mg/L		03/16/21 11:51	03/17/21 13:39	1
Sodium	33		0.50	0.35	mg/L		03/16/21 11:51	03/17/21 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 14:38	1
Total Dissolved Solids	180	H	10	10	mg/L			03/18/21 18:17	1
Total Alkalinity as CaCO ₃ to pH 4.5	55		5.0	5.0	mg/L			03/17/21 03:25	1
Bicarbonate Alkalinity as CaCO ₃	55		5.0	5.0	mg/L			03/17/21 03:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.19				SU			03/09/21 13:38	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-28

Lab Sample ID: 180-118350-5

Date Collected: 03/09/21 15:33

Matrix: Water

Date Received: 03/12/21 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	0.71	mg/L			03/13/21 13:32	1
Sulfate	1.1	B	1.0	0.76	mg/L			03/13/21 13:32	1
Fluoride	<0.026		0.10	0.026	mg/L			03/13/21 13:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.044	J	0.080	0.039	mg/L		03/16/21 11:51	03/17/21 13:50	1
Calcium	3.6		0.50	0.13	mg/L		03/16/21 11:51	03/17/21 13:50	1
Iron	<0.020		0.050	0.020	mg/L		03/16/21 11:51	03/17/21 13:50	1
Magnesium	1.0		0.50	0.083	mg/L		03/16/21 11:51	03/17/21 13:50	1
Manganese	0.010	B	0.0050	0.00087	mg/L		03/16/21 11:51	03/17/21 13:50	1
Potassium	1.6		0.50	0.16	mg/L		03/16/21 11:51	03/17/21 13:50	1
Sodium	9.1		0.50	0.35	mg/L		03/16/21 11:51	03/17/21 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 14:40	1
Total Dissolved Solids	53	H	10	10	mg/L			03/18/21 18:17	1
Total Alkalinity as CaCO ₃ to pH 4.5	39		5.0	5.0	mg/L			03/17/21 03:34	1
Bicarbonate Alkalinity as CaCO ₃	39		5.0	5.0	mg/L			03/17/21 03:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.65				SU			03/09/21 15:33	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: EB-2

Lab Sample ID: 180-118350-6

Date Collected: 03/09/21 17:25

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/13/21 09:40	1
Sulfate	<0.76		1.0	0.76	mg/L			03/13/21 09:40	1
Fluoride	<0.026		0.10	0.026	mg/L			03/13/21 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		03/16/21 11:51	03/17/21 13:53	1
Calcium	<0.13		0.50	0.13	mg/L		03/16/21 11:51	03/17/21 13:53	1
Iron	<0.020		0.050	0.020	mg/L		03/16/21 11:51	03/17/21 13:53	1
Magnesium	<0.083		0.50	0.083	mg/L		03/16/21 11:51	03/17/21 13:53	1
Manganese	0.0014	J B	0.0050	0.00087	mg/L		03/16/21 11:51	03/17/21 13:53	1
Potassium	<0.16		0.50	0.16	mg/L		03/16/21 11:51	03/17/21 13:53	1
Sodium	<0.35		0.50	0.35	mg/L		03/16/21 11:51	03/17/21 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 14:43	1
Total Dissolved Solids	<10	H	10	10	mg/L			03/18/21 18:17	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/17/21 03:43	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/21 03:43	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: Dup-2
 Date Collected: 03/09/21 00:00
 Date Received: 03/12/21 08:30

Lab Sample ID: 180-118350-7
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20		1.0	0.71	mg/L			03/13/21 13:15	1
Sulfate	47	B	1.0	0.76	mg/L			03/13/21 13:15	1
Fluoride	0.25		0.10	0.026	mg/L			03/13/21 13:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.16		0.080	0.039	mg/L		03/16/21 11:51	03/17/21 13:57	1
Calcium	17		0.50	0.13	mg/L		03/16/21 11:51	03/17/21 13:57	1
Iron	0.64		0.050	0.020	mg/L		03/16/21 11:51	03/17/21 13:57	1
Magnesium	2.8		0.50	0.083	mg/L		03/16/21 11:51	03/17/21 13:57	1
Manganese	0.23	B	0.0050	0.00087	mg/L		03/16/21 11:51	03/17/21 13:57	1
Potassium	2.4		0.50	0.16	mg/L		03/16/21 11:51	03/17/21 13:57	1
Sodium	32		0.50	0.35	mg/L		03/16/21 11:51	03/17/21 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	4.9		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 14:46	1
Total Dissolved Solids	170	H	10	10	mg/L			03/18/21 18:17	1
Total Alkalinity as CaCO ₃ to pH 4.5	54		5.0	5.0	mg/L			03/17/21 03:52	1
Bicarbonate Alkalinity as CaCO ₃	54		5.0	5.0	mg/L			03/17/21 03:52	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: FB-2

Lab Sample ID: 180-118350-8

Date Collected: 03/09/21 14:20

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/13/21 09:58	1
Sulfate	<0.76		1.0	0.76	mg/L			03/13/21 09:58	1
Fluoride	<0.026		0.10	0.026	mg/L			03/13/21 09:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.041	J	0.080	0.039	mg/L		03/16/21 11:51	03/17/21 14:01	1
Calcium	<0.13		0.50	0.13	mg/L		03/16/21 11:51	03/17/21 14:01	1
Iron	<0.020		0.050	0.020	mg/L		03/16/21 11:51	03/17/21 14:01	1
Magnesium	<0.083		0.50	0.083	mg/L		03/16/21 11:51	03/17/21 14:01	1
Manganese	0.00094	J B	0.0050	0.00087	mg/L		03/16/21 11:51	03/17/21 14:01	1
Potassium	<0.16		0.50	0.16	mg/L		03/16/21 11:51	03/17/21 14:01	1
Sodium	<0.35		0.50	0.35	mg/L		03/16/21 11:51	03/17/21 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 14:55	1
Total Dissolved Solids	<10	H	10	10	mg/L			03/18/21 18:17	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/17/21 04:01	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/21 04:01	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Client Sample ID: PZ-29D

Lab Sample ID: 180-118350-9

Date Collected: 03/11/21 12:25

Matrix: Water

Date Received: 03/12/21 08:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		1.0	0.71	mg/L			03/13/21 12:57	1
Sulfate	11	B	1.0	0.76	mg/L			03/13/21 12:57	1
Fluoride	0.049	J	0.10	0.026	mg/L			03/13/21 12:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		03/16/21 11:51	03/17/21 14:04	1
Calcium	41		0.50	0.13	mg/L		03/16/21 11:51	03/17/21 14:04	1
Iron	23		0.050	0.020	mg/L		03/16/21 11:51	03/17/21 14:04	1
Magnesium	4.6		0.50	0.083	mg/L		03/16/21 11:51	03/17/21 14:04	1
Manganese	1.3	B	0.0050	0.00087	mg/L		03/16/21 11:51	03/17/21 14:04	1
Potassium	10		0.50	0.16	mg/L		03/16/21 11:51	03/17/21 14:04	1
Sodium	18		0.50	0.35	mg/L		03/16/21 11:51	03/17/21 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 14:58	1
Total Dissolved Solids	210		10	10	mg/L			03/18/21 18:17	1
Total Alkalinity as CaCO3 to pH 4.5	160		5.0	5.0	mg/L			03/17/21 04:10	1
Bicarbonate Alkalinity as CaCO3	160		5.0	5.0	mg/L			03/17/21 04:10	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.41				SU			03/11/21 12:25	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

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

Lab Sample ID: MB 180-349310/6
Matrix: Water
Analysis Batch: 349310

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.71		1.0	0.71	mg/L			03/13/21 08:08	1
Sulfate	0.948	J	1.0	0.76	mg/L			03/13/21 08:08	1
Fluoride	<0.026		0.10	0.026	mg/L			03/13/21 08:08	1

Lab Sample ID: LCS 180-349310/5
Matrix: Water
Analysis Batch: 349310

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	53.2		mg/L		106	90 - 110
Fluoride	2.50	2.54		mg/L		102	90 - 110

Lab Sample ID: 180-118350-4 MS
Matrix: Water
Analysis Batch: 349310

Client Sample ID: PZ-26D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	46	B	50.0	95.3		mg/L		99	90 - 110
Fluoride	0.26		2.50	2.70		mg/L		98	90 - 110

Lab Sample ID: 180-118350-4 MSD
Matrix: Water
Analysis Batch: 349310

Client Sample ID: PZ-26D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	46	B	50.0	96.4		mg/L		101	90 - 110	1	20
Fluoride	0.26		2.50	2.71		mg/L		98	90 - 110	0	20

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

Lab Sample ID: MB 180-349566/1-A
Matrix: Water
Analysis Batch: 349781

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 349566

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.039	^+	0.080	0.039	mg/L		03/16/21 11:51	03/17/21 12:48	1
Calcium	<0.13		0.50	0.13	mg/L		03/16/21 11:51	03/17/21 12:48	1
Iron	<0.020		0.050	0.020	mg/L		03/16/21 11:51	03/17/21 12:48	1
Magnesium	<0.083		0.50	0.083	mg/L		03/16/21 11:51	03/17/21 12:48	1
Manganese	0.00148	J	0.0050	0.00087	mg/L		03/16/21 11:51	03/17/21 12:48	1
Potassium	<0.16		0.50	0.16	mg/L		03/16/21 11:51	03/17/21 12:48	1
Sodium	<0.35		0.50	0.35	mg/L		03/16/21 11:51	03/17/21 12:48	1
Lithium	<0.0034		0.0050	0.0034	mg/L		03/16/21 11:51	03/17/21 12:48	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

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

Lab Sample ID: LCS 180-349566/2-A
Matrix: Water
Analysis Batch: 349781

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 349566

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.25	1.19		mg/L		95	80 - 120
Calcium	25.0	27.0		mg/L		108	80 - 120
Iron	5.00	5.19		mg/L		104	80 - 120
Magnesium	25.0	25.3		mg/L		101	80 - 120
Manganese	0.500	0.517		mg/L		103	80 - 120
Potassium	25.0	24.7		mg/L		99	80 - 120
Sodium	25.0	25.6		mg/L		102	80 - 120
Lithium	0.500	0.500		mg/L		100	80 - 120

Lab Sample ID: 180-118350-1 MS
Matrix: Water
Analysis Batch: 349781

Client Sample ID: PZ-23D
Prep Type: Total Recoverable
Prep Batch: 349566

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Boron	0.62		1.25	1.76		mg/L		91	75 - 125
Calcium	50		25.0	76.6		mg/L		106	75 - 125
Iron	1.4		5.00	6.59		mg/L		103	75 - 125
Magnesium	8.5		25.0	33.3		mg/L		99	75 - 125
Manganese	2.4	B	0.500	2.90	4	mg/L		99	75 - 125
Potassium	6.5		25.0	30.7		mg/L		97	75 - 125
Sodium	35		25.0	59.6		mg/L		99	75 - 125
Lithium	0.048		0.500	0.532		mg/L		97	75 - 125

Lab Sample ID: 180-118350-1 MSD
Matrix: Water
Analysis Batch: 349781

Client Sample ID: PZ-23D
Prep Type: Total Recoverable
Prep Batch: 349566

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Boron	0.62		1.25	1.83		mg/L		97	75 - 125	4	20
Calcium	50		25.0	77.3		mg/L		108	75 - 125	1	20
Iron	1.4		5.00	6.61		mg/L		103	75 - 125	0	20
Magnesium	8.5		25.0	33.6		mg/L		100	75 - 125	1	20
Manganese	2.4	B	0.500	2.92	4	mg/L		102	75 - 125	0	20
Potassium	6.5		25.0	30.6		mg/L		97	75 - 125	0	20
Sodium	35		25.0	60.5		mg/L		103	75 - 125	2	20
Lithium	0.048		0.500	0.543		mg/L		99	75 - 125	2	20

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-349361/1-A
Matrix: Water
Analysis Batch: 349549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 13:05	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 180-349361/2-A
Matrix: Water
Analysis Batch: 349549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349361
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Sulfide	12.7	11.2		mg/L		88	85 - 115

Lab Sample ID: MB 180-349362/1-A
Matrix: Water
Analysis Batch: 349551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/15/21 09:45	03/15/21 14:20	1

Lab Sample ID: LCS 180-349362/2-A
Matrix: Water
Analysis Batch: 349551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349362
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Sulfide	12.7	12.1		mg/L		95	85 - 115

Lab Sample ID: 180-118350-2 MS
Matrix: Water
Analysis Batch: 349551

Client Sample ID: PZ-25S
Prep Type: Total/NA
Prep Batch: 349362
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Sulfide	<2.1		12.7	10.6		mg/L		83	75 - 125

Lab Sample ID: 180-118350-2 MSD
Matrix: Water
Analysis Batch: 349551

Client Sample ID: PZ-25S
Prep Type: Total/NA
Prep Batch: 349362
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Sulfide	<2.1		12.7	11.0		mg/L		87	75 - 125	4	20

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

Lab Sample ID: MB 180-349924/2
Matrix: Water
Analysis Batch: 349924

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			03/18/21 18:17	1

Lab Sample ID: LCS 180-349924/1
Matrix: Water
Analysis Batch: 349924

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	457	422		mg/L		92	80 - 120

QC Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

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

Lab Sample ID: 180-118350-7 DU
 Matrix: Water
 Analysis Batch: 349924

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	170	H	182		mg/L		9	10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-349682/54
 Matrix: Water
 Analysis Batch: 349682

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/17/21 01:27	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/17/21 01:27	1

Lab Sample ID: LCS 180-349682/53
 Matrix: Water
 Analysis Batch: 349682

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	250	230		mg/L		92	90 - 110

Lab Sample ID: 180-118350-2 DU
 Matrix: Water
 Analysis Batch: 349682

Client Sample ID: PZ-25S
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	45		39.4		mg/L		14	20
Bicarbonate Alkalinity as CaCO3	45		39.4		mg/L		14	20

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

HPLC/IC

Analysis Batch: 349310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118350-1	PZ-23D	Total/NA	Water	EPA 300.0 R2.1	
180-118350-2	PZ-25S	Total/NA	Water	EPA 300.0 R2.1	
180-118350-3	PZ-26S	Total/NA	Water	EPA 300.0 R2.1	
180-118350-4	PZ-26D	Total/NA	Water	EPA 300.0 R2.1	
180-118350-5	PZ-28	Total/NA	Water	EPA 300.0 R2.1	
180-118350-6	EB-2	Total/NA	Water	EPA 300.0 R2.1	
180-118350-7	Dup-2	Total/NA	Water	EPA 300.0 R2.1	
180-118350-8	FB-2	Total/NA	Water	EPA 300.0 R2.1	
180-118350-9	PZ-29D	Total/NA	Water	EPA 300.0 R2.1	
MB 180-349310/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-349310/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-118350-4 MS	PZ-26D	Total/NA	Water	EPA 300.0 R2.1	
180-118350-4 MSD	PZ-26D	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 349566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118350-1	PZ-23D	Total Recoverable	Water	3005A	
180-118350-2	PZ-25S	Total Recoverable	Water	3005A	
180-118350-3	PZ-26S	Total Recoverable	Water	3005A	
180-118350-4	PZ-26D	Total Recoverable	Water	3005A	
180-118350-5	PZ-28	Total Recoverable	Water	3005A	
180-118350-6	EB-2	Total Recoverable	Water	3005A	
180-118350-7	Dup-2	Total Recoverable	Water	3005A	
180-118350-8	FB-2	Total Recoverable	Water	3005A	
180-118350-9	PZ-29D	Total Recoverable	Water	3005A	
MB 180-349566/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-349566/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-118350-1 MS	PZ-23D	Total Recoverable	Water	3005A	
180-118350-1 MSD	PZ-23D	Total Recoverable	Water	3005A	

Analysis Batch: 349781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118350-1	PZ-23D	Total Recoverable	Water	EPA 6020B	349566
180-118350-2	PZ-25S	Total Recoverable	Water	EPA 6020B	349566
180-118350-3	PZ-26S	Total Recoverable	Water	EPA 6020B	349566
180-118350-4	PZ-26D	Total Recoverable	Water	EPA 6020B	349566
180-118350-5	PZ-28	Total Recoverable	Water	EPA 6020B	349566
180-118350-6	EB-2	Total Recoverable	Water	EPA 6020B	349566
180-118350-7	Dup-2	Total Recoverable	Water	EPA 6020B	349566
180-118350-8	FB-2	Total Recoverable	Water	EPA 6020B	349566
180-118350-9	PZ-29D	Total Recoverable	Water	EPA 6020B	349566
MB 180-349566/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	349566
LCS 180-349566/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	349566
180-118350-1 MS	PZ-23D	Total Recoverable	Water	EPA 6020B	349566
180-118350-1 MSD	PZ-23D	Total Recoverable	Water	EPA 6020B	349566

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

General Chemistry

Prep Batch: 349361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118350-1	PZ-23D	Total/NA	Water	9030B	
MB 180-349361/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-349361/2-A	Lab Control Sample	Total/NA	Water	9030B	

Prep Batch: 349362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118350-2	PZ-25S	Total/NA	Water	9030B	
180-118350-3	PZ-26S	Total/NA	Water	9030B	
180-118350-4	PZ-26D	Total/NA	Water	9030B	
180-118350-5	PZ-28	Total/NA	Water	9030B	
180-118350-6	EB-2	Total/NA	Water	9030B	
180-118350-7	Dup-2	Total/NA	Water	9030B	
180-118350-8	FB-2	Total/NA	Water	9030B	
180-118350-9	PZ-29D	Total/NA	Water	9030B	
MB 180-349362/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-349362/2-A	Lab Control Sample	Total/NA	Water	9030B	
180-118350-2 MS	PZ-25S	Total/NA	Water	9030B	
180-118350-2 MSD	PZ-25S	Total/NA	Water	9030B	

Analysis Batch: 349549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118350-1	PZ-23D	Total/NA	Water	EPA 9034	349361
MB 180-349361/1-A	Method Blank	Total/NA	Water	EPA 9034	349361
LCS 180-349361/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	349361

Analysis Batch: 349551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118350-2	PZ-25S	Total/NA	Water	EPA 9034	349362
180-118350-3	PZ-26S	Total/NA	Water	EPA 9034	349362
180-118350-4	PZ-26D	Total/NA	Water	EPA 9034	349362
180-118350-5	PZ-28	Total/NA	Water	EPA 9034	349362
180-118350-6	EB-2	Total/NA	Water	EPA 9034	349362
180-118350-7	Dup-2	Total/NA	Water	EPA 9034	349362
180-118350-8	FB-2	Total/NA	Water	EPA 9034	349362
180-118350-9	PZ-29D	Total/NA	Water	EPA 9034	349362
MB 180-349362/1-A	Method Blank	Total/NA	Water	EPA 9034	349362
LCS 180-349362/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	349362
180-118350-2 MS	PZ-25S	Total/NA	Water	EPA 9034	349362
180-118350-2 MSD	PZ-25S	Total/NA	Water	EPA 9034	349362

Analysis Batch: 349682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118350-1	PZ-23D	Total/NA	Water	SM2320 B	
180-118350-2	PZ-25S	Total/NA	Water	SM2320 B	
180-118350-3	PZ-26S	Total/NA	Water	SM2320 B	
180-118350-4	PZ-26D	Total/NA	Water	SM2320 B	
180-118350-5	PZ-28	Total/NA	Water	SM2320 B	
180-118350-6	EB-2	Total/NA	Water	SM2320 B	
180-118350-7	Dup-2	Total/NA	Water	SM2320 B	
180-118350-8	FB-2	Total/NA	Water	SM2320 B	
180-118350-9	PZ-29D	Total/NA	Water	SM2320 B	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-118350-1

General Chemistry (Continued)

Analysis Batch: 349682 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-349682/54	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-349682/53	Lab Control Sample	Total/NA	Water	SM2320 B	
180-118350-2 DU	PZ-25S	Total/NA	Water	SM2320 B	

Analysis Batch: 349924


Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118350-1	PZ-23D	Total/NA	Water	SM 2540C	
180-118350-2	PZ-25S	Total/NA	Water	SM 2540C	
180-118350-3	PZ-26S	Total/NA	Water	SM 2540C	
180-118350-4	PZ-26D	Total/NA	Water	SM 2540C	
180-118350-5	PZ-28	Total/NA	Water	SM 2540C	
180-118350-6	EB-2	Total/NA	Water	SM 2540C	
180-118350-7	Dup-2	Total/NA	Water	SM 2540C	
180-118350-8	FB-2	Total/NA	Water	SM 2540C	
180-118350-9	PZ-29D	Total/NA	Water	SM 2540C	
MB 180-349924/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-349924/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-118350-7 DU	Dup-2	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 349443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-118350-1	PZ-23D	Total/NA	Water	Field Sampling	
180-118350-2	PZ-25S	Total/NA	Water	Field Sampling	
180-118350-3	PZ-26S	Total/NA	Water	Field Sampling	
180-118350-4	PZ-26D	Total/NA	Water	Field Sampling	
180-118350-5	PZ-28	Total/NA	Water	Field Sampling	
180-118350-9	PZ-29D	Total/NA	Water	Field Sampling	

Chain of Custody Record

Client Information		Lab PW: Brown, Shail		Carrier Tracking No(s):		COC No:	
Client Contact: <i>Lydia Ker / H. Add / T. Goble</i>		E-Mail: shail.brown@eurofinset.com				Page: 1 of 1	
Company: GA Power		Phone: 770-598-5994				Job #:	
Address: 241 Ralph McGill Blvd SE		City: Atlanta		State, Zip: GA, 30308		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO4	
Phone: 404-506-7116(Tel)		PO #: SCS10382606		WO #:		 180-118350 Chain of Custody	
Email:		Project Name: CCR - Plant Wansley Ash Pond PZ		Project #: 18019922		SSOW#:	
SCS Contacts:		Due Date Requested:		TAT Requested (days): RUSH 3-day TAT		Analysis Requested:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Matrix (W=water, S=solid, O=wastewater, L=LF-Tissue, A=Air)		Preservation Code:		Field Filtered Sample (Yes or No)		Perom (MS/MSD) (Yes or No)	
App III Metals (B, Ca)		CI, F, SO & TDS (EPA 300 & SM 2540C)		Major Ions - Bicarbonate Alkalinity, Total Alkalinity, Iron, Magnesium, Manganese, Sodium, Sulfide		Special Instructions/Note:	
pH=		Total Num					
PZ-23D	3-9-21	1450	G	Water	N	N	pH= 6.85
PZ-25S	3-9-21	1642	G	Water	N	N	pH= 5.81
PZ-26S	3-9-21	1434	G	Water	N	N	pH= 4.29
PZ-26D	3-9-21	1338	G	Water	N	N	pH= 6.19
PZ-28	3-9-21	1533	G	Water	N	N	pH= 5.65
EB-2	3-9-21	1725	G	Water	N	N	pH=
Dup-2	3-9-21	-	G	Water	N	N	pH=
FB-2	3-9-21	1420	G	Water	N	N	pH=
PZ-29D	3-11-21	1225	G	Water	N	N	pH= 6.41
			G	Water			pH=
			G	Water			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:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>John A. ...</i>		Date/Time: 3-11-21/1645		Company: EBR		Received by: <i>John A. ...</i>	
Relinquished by: <i>John A. ...</i>		Date/Time: 3/11/21		Company: EBR		Received by: <i>John A. ...</i>	
Relinquished by: <i>John A. ...</i>		Date/Time: 3/11/21		Company: EBR		Received by: <i>John A. ...</i>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			



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

... Using This Tag

Ref: PLT WANSLEY ACCC Date: 11Mar21
 Dep: Wgt: 58.40 LBS
 DV: 0.00
 SHIPPING: 0.00
 SPECIAL: 0.00
 HANDLING: 0.00
 TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
 TRCK: 1516 9328 6580



Part # 159489-444 RTZ EXP 11/21

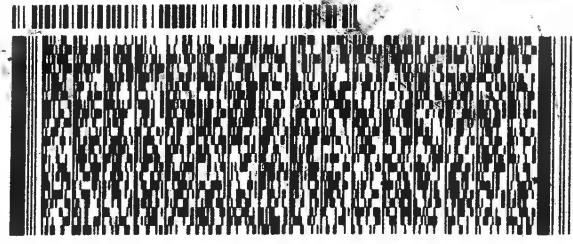


ORIGIN ID: LIYA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

SHIP DATE: 11MAR21
 ACTWGT: 58.40 LB
 CAD: 859116/CAFE3409

BILL RECIPIENT

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
 (412) 963-7068
 REF: PLT WANSLEY ACCC



3 of 6
 MPS# 1516 9328 6580
 0263
 Mstr# 1516 9328 6568
 0201
FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA 15238
 PA-US PIT

Uncorrected temp _____ °C
 Thermometer ID _____

CF 0 Initials 8

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



DV: 0.00 TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRACK: 1516 9328 6605

Pat # 159469-434 RIT2 EXP 11/21/21



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

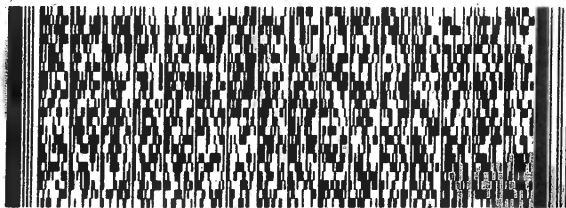
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 963-7058

REF: PLT WANSLEY ACCC



FedEx
Express



5 of 6

MPS# 1516 9328 6605
0263

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

Mstr# 1516 9328 6568

0201

NA AGCA

15238
PA-US PIT

Uncorrected temp 22 °C
Thermometer ID 14

CF 0 Initials J

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



Ref: PLT WANSLEY ACCC Date: 11Mar21 SHIPPING: 0.00
 Dep: Wgt: 58.40 LBS SPECIAL: 0.00
 DV: 0.00 HANDLING: 0.00
 TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
 TRCK: 1516 9328 6579



Environment Testing
 TestAmerica

Part # 159469-434 RITZ EXP 11/21

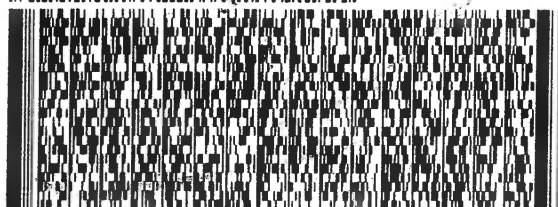
ORIGIN ID:LIYA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

SHIP DATE: 11MAR21
 ACTWGT: 58.40 LB
 CAD: 859116/CAFE3409

BILL RECEIPT

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

(412) 963-7058
 REF: PLT WANSLEY ACCC



FedEx
 Express



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2 of 6

FRI - 12 MAR 4:30P
 STANDARD OVERNIGHT

MPS# 1516 9328 6579

Mstr# 1516 9328 6568

0201

NA AGCA

15238
 PIT

Uncorrected temp 2.9 °C
 Thermometer ID 14

CF 0 Initials J

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



Ref: PLT WANSLEY ACCC Date: 11Mar21 SHIPPING: 0.00
 Dep: Wgt: 58.40 LBS SPECIAL: 0.00
 DV: 0.00 HANDLING: 0.00
 TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
 TRACK: 1516 9328 6616



Environment Testing
 TestAmerica

33469-434 RTZ EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NW
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

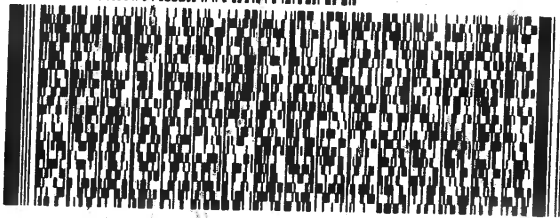
SHIP DATE: 11MAR21
 ACTWGT: 58.40 LB
 CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 983-7058

REF: PLT WANSLEY AGCC



FedEx
 Express



12012012121801 09

6 of 6
 MPS# 1516 9328 6616
 0263

FRI - 12 MAR 4:30P
 STANDARD OVERNIGHT

Mstr# 1516 9328 6568

0201

NA AGCA

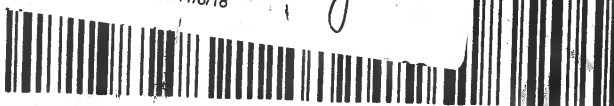
Uncorrected temp
 Thermometer ID

15238

PA-US PIT

CF 0 Initials g

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



Do Not Lift Using This Tag

Ref: PLT WANSLEY ACCC Date: 11Mar21 SHIPPING: 0.00
Dep: Wgt: 58.40 LBS SPECIAL: 0.00
DV: 0.00 HANDLING: 0.00
TOTAL: 0.00

Svcs: STANDARD OVERNIGHT Master 1516 9328 6568
TRACK: 1516 9328 6590



Environment Testing
TestAmerica

Part # 159469-434 RIT2 EXP 11/21

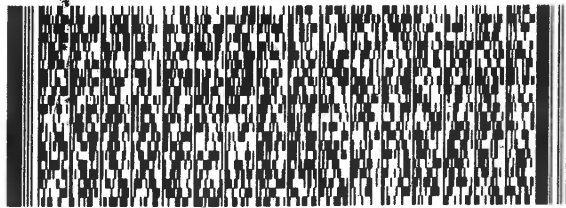
ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 963-7068
REF: PLT WANSLEY ACCC



FedEx
Express



4 of 6

MPS# 1516 9328 6590

0263

Mstr# 1516 9328 6568

0201

FRI - 12 MAR 4:30P
STANDARD OVERNIGHT

NA AGCA

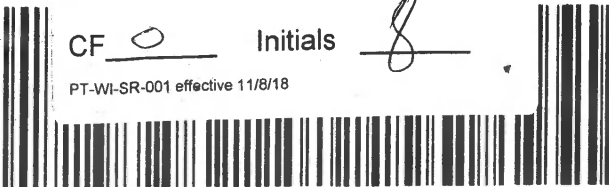
15238
PIT

Uncorrected temp
Thermometer ID

2.5 °C
119

CF 0 Initials 8

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





Do Not Lift Using This Tag



**Environment Testing
TestAmerica**

Part # 159469-434 RT2 EXP 11/21

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

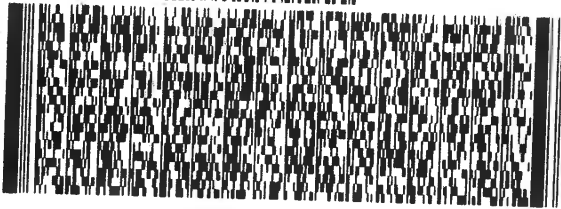
SHIP DATE: 11MAR21
ACTWGT: 58.40 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 963-7068

REF: PLT WANSLEY ACCC



**FedEx
Express**



AN 1031210211027

1 of 6
TRK# 1516 9328 6568
0201
MASTER

**FRI - 12 MAR 4:30P
STANDARD OVERNIGHT**

NA AGCA

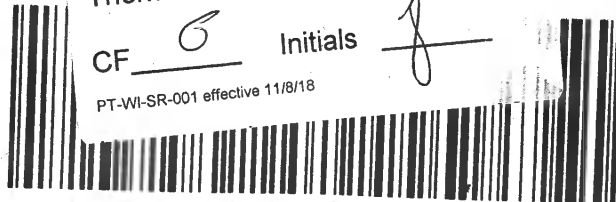
**15238
PIT**

Uncorrected temp
Thermometer ID

2.8 °C
14
Initials

CF

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



- 1
- 2
- 3
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- 5
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- 7
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- 10
- 11
- 12
- 13

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-118350-1

Login Number: 118350

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: 180-119811-1
Client Project/Site: Plant Wansley Ash Pond PZ
Revision: 1

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

Attn: Kristen N Jurinko



Authorized for release by:
5/4/2021 6:00:10 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through
Total Access

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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Case Narrative

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Job ID: 180-119811-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-119811-1**

Comments

050421 Revised repot to add Lithim to the following samples at client request: 180-119811-1 (PZ-22), 180-119811-2 (PZ-23S), 180-119811-3 (PZ-24), 180-119811-4 (PZ-25S), 180-119811-5 (PZ-26S), 180-119811-17 (PZ-27S).
This report replaces the report previously issued on 041821.

Receipt

The samples were received on 4/10/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.2° C and 3.6° C.

GC Semi VOA

Method 300.0: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 180-352846 were low outside control limits for Fluoride: (180-119811-B-3 MS) and (180-119811-B-3 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

Metals

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

Field Service / Mobile Lab

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

General Chemistry

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

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	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 Ash Pond PZ

Job ID: 180-119811-1

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	09-30-22
Florida	NELAP	E871008	06-30-21
Georgia	State	PA 02-00416	04-30-21
Illinois	NELAP	004375	06-30-21
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-21
Kentucky (WW)	State	KY98043	12-31-21
Louisiana	NELAP	04041	06-30-21
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-21
Nevada	State	PA00164	07-31-21
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-21
New York	NELAP	11182	04-01-22
North Carolina (WW/SW)	State	434	12-31-21
North Dakota	State	R-227	04-30-21
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-21
Rhode Island	State	LAO00362	12-31-21
South Carolina	State	89014	04-30-21
Texas	NELAP	T104704528	03-31-22
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	01-31-22
Wisconsin	State	998027800	08-31-21

Sample Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-119811-1	PZ-22	Water	04/08/21 14:00	04/10/21 10:00	
180-119811-2	PZ-23S	Water	04/07/21 12:54	04/10/21 10:00	
180-119811-3	PZ-24	Water	04/08/21 12:30	04/10/21 10:00	
180-119811-4	PZ-25S	Water	04/07/21 11:20	04/10/21 10:00	
180-119811-5	PZ-26S	Water	04/07/21 14:28	04/10/21 10:00	
180-119811-6	PZ-26D	Water	04/07/21 15:37	04/10/21 10:00	
180-119811-7	PZ-28	Water	04/08/21 10:57	04/10/21 10:00	
180-119811-8	EB-2	Water	04/07/21 12:20	04/10/21 10:00	
180-119811-9	FB-2	Water	04/08/21 13:40	04/10/21 10:00	
180-119811-10	Dup-2	Water	04/07/21 00:00	04/10/21 10:00	
180-119811-11	Dup-1	Water	04/08/21 00:00	04/10/21 10:00	
180-119811-12	FB-1	Water	04/07/21 15:10	04/10/21 10:00	
180-119811-13	EB-1	Water	04/07/21 15:40	04/10/21 10:00	
180-119811-14	PZ-27D	Water	04/07/21 15:29	04/10/21 10:00	
180-119811-15	PZ-23D	Water	04/08/21 11:55	04/10/21 10:00	
180-119811-16	PZ-29D	Water	04/08/21 13:15	04/10/21 10:00	
180-119811-17	PZ-27S	Water	04/08/21 14:31	04/10/21 10:00	

Method Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
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

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-22
Date Collected: 04/08/21 14:00
Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			352846	04/13/21 15:23	EPS	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		5			352846	04/13/21 15:41	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			353260	04/15/21 14:03	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			352774	04/08/21 14:00	FDS	TAL PIT

Client Sample ID: PZ-23S
Date Collected: 04/07/21 12:54
Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			352846	04/13/21 17:46	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			353260	04/15/21 14:21	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			352774	04/07/21 12:54	FDS	TAL PIT

Client Sample ID: PZ-24
Date Collected: 04/08/21 12:30
Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			352846	04/13/21 09:34	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			353260	04/15/21 14:24	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			352774	04/08/21 12:30	FDS	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-25S

Lab Sample ID: 180-119811-4

Date Collected: 04/07/21 11:20

Matrix: Water

Date Received: 04/10/21 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			352846	04/13/21 16:53	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			353260	04/15/21 14:26	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			352774	04/07/21 11:20	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: PZ-26S

Lab Sample ID: 180-119811-5

Date Collected: 04/07/21 14:28

Matrix: Water

Date Received: 04/10/21 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			352846	04/13/21 18:22	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			353260	04/15/21 14:29	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			352774	04/07/21 14:28	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: PZ-26D

Lab Sample ID: 180-119811-6

Date Collected: 04/07/21 15:37

Matrix: Water

Date Received: 04/10/21 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			352846	04/14/21 02:22	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			353260	04/15/21 14:32	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			352774	04/07/21 15:37	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-28

Lab Sample ID: 180-119811-7

Date Collected: 04/08/21 10:57

Matrix: Water

Date Received: 04/10/21 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			352846	04/13/21 22:48	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			353260	04/15/21 14:35	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			352774	04/08/21 10:57	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-2

Lab Sample ID: 180-119811-8

Date Collected: 04/07/21 12:20

Matrix: Water

Date Received: 04/10/21 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			352846	04/13/21 14:30	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			353260	04/15/21 14:37	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-2

Lab Sample ID: 180-119811-9

Date Collected: 04/08/21 13:40

Matrix: Water

Date Received: 04/10/21 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			352846	04/13/21 14:47	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			353260	04/15/21 14:45	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: Dup-2

Lab Sample ID: 180-119811-10

Date Collected: 04/07/21 00:00

Matrix: Water

Date Received: 04/10/21 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			352846	04/13/21 18:58	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			353260	04/15/21 14:48	RJR	TAL PIT
Instrument ID: NEMO										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: Dup-2
Date Collected: 04/07/21 00:00
Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT

Client Sample ID: Dup-1
Date Collected: 04/08/21 00:00
Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-11
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 Instrument ID: INTEGRION		1			352846	04/13/21 11:04	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			353260	04/15/21 14:51	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT

Client Sample ID: FB-1
Date Collected: 04/07/21 15:10
Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-12
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 Instrument ID: INTEGRION		1			352846	04/13/21 15:05	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			353260	04/15/21 14:54	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT

Client Sample ID: EB-1
Date Collected: 04/07/21 15:40
Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-13
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 Instrument ID: INTEGRION		1			352846	04/13/21 16:35	EPS	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			353260	04/15/21 14:56	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-27D

Date Collected: 04/07/21 15:29

Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-14

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			352846	04/13/21 10:28	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			353260	04/15/21 14:59	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			352774	04/07/21 15:29	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: PZ-23D

Date Collected: 04/08/21 11:55

Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			352846	04/13/21 11:22	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			353260	04/15/21 15:02	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			352774	04/08/21 11:55	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: PZ-29D

Date Collected: 04/08/21 13:15

Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			352846	04/13/21 11:40	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			353260	04/15/21 15:04	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			352774	04/08/21 13:15	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-27S

Lab Sample ID: 180-119811-17

Date Collected: 04/08/21 14:31

Matrix: Water

Date Received: 04/10/21 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			352846	04/14/21 00:53	EPS	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	352766	04/12/21 12:45	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			353260	04/15/21 15:07	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	353099	04/14/21 18:42	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			352774	04/08/21 14:31	FDS	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

Batch Type: Analysis

EPS = Evan Scheuer

FDS = Sampler Field

KMM = Kendric Moore

RJR = Ron Rosenbaum

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-22

Lab Sample ID: 180-119811-1

Date Collected: 04/08/21 14:00

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57		1.0	0.71	mg/L			04/13/21 15:23	1
Fluoride	1.7		0.10	0.026	mg/L			04/13/21 15:23	1
Sulfate	240		5.0	3.8	mg/L			04/13/21 15:41	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.98		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 14:03	1
Calcium	88		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 14:03	1
Lithium	0.11		0.0050	0.0034	mg/L		04/12/21 12:45	04/15/21 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	540		10	10	mg/L			04/14/21 18:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.60				SU			04/08/21 14:00	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-23S

Lab Sample ID: 180-119811-2

Date Collected: 04/07/21 12:54

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50		1.0	0.71	mg/L			04/13/21 17:46	1
Fluoride	1.6		0.10	0.026	mg/L			04/13/21 17:46	1
Sulfate	190		1.0	0.76	mg/L			04/13/21 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.13		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 14:21	1
Calcium	67		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 14:21	1
Lithium	0.031		0.0050	0.0034	mg/L		04/12/21 12:45	04/15/21 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	520		10	10	mg/L			04/14/21 18:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.05				SU			04/07/21 12:54	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-24

Lab Sample ID: 180-119811-3

Date Collected: 04/08/21 12:30

Matrix: Water

Date Received: 04/10/21 10:00

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	0.71	mg/L			04/13/21 09:34	1
Fluoride	1.4	F1	0.10	0.026	mg/L			04/13/21 09:34	1
Sulfate	60		1.0	0.76	mg/L			04/13/21 09:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.21		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 14:24	1
Calcium	14		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 14:24	1
Lithium	0.0081		0.0050	0.0034	mg/L		04/12/21 12:45	04/15/21 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			04/14/21 18:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.01				SU			04/08/21 12:30	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-25S

Lab Sample ID: 180-119811-4

Date Collected: 04/07/21 11:20

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7		1.0	0.71	mg/L			04/13/21 16:53	1
Fluoride	0.093	J	0.10	0.026	mg/L			04/13/21 16:53	1
Sulfate	5.1		1.0	0.76	mg/L			04/13/21 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 14:26	1
Calcium	2.7		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 14:26	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/12/21 12:45	04/15/21 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	66		10	10	mg/L			04/14/21 18:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.57				SU			04/07/21 11:20	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-26S

Lab Sample ID: 180-119811-5

Date Collected: 04/07/21 14:28

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		1.0	0.71	mg/L			04/13/21 18:22	1
Fluoride	1.1		0.10	0.026	mg/L			04/13/21 18:22	1
Sulfate	160		1.0	0.76	mg/L			04/13/21 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.9		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 14:29	1
Calcium	71		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 14:29	1
Lithium	0.0077		0.0050	0.0034	mg/L		04/12/21 12:45	04/15/21 14:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	510		10	10	mg/L			04/14/21 18:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.43				SU			04/07/21 14:28	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-26D

Lab Sample ID: 180-119811-6

Date Collected: 04/07/21 15:37

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20		1.0	0.71	mg/L			04/14/21 02:22	1
Fluoride	0.22		0.10	0.026	mg/L			04/14/21 02:22	1
Sulfate	48		1.0	0.76	mg/L			04/14/21 02:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.15		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 14:32	1
Calcium	18		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 14:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	410		10	10	mg/L			04/14/21 18:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.46				SU			04/07/21 15:37	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-28

Lab Sample ID: 180-119811-7

Date Collected: 04/08/21 10:57

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.6		1.0	0.71	mg/L			04/13/21 22:48	1
Fluoride	<0.026		0.10	0.026	mg/L			04/13/21 22:48	1
Sulfate	1.7		1.0	0.76	mg/L			04/13/21 22:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 14:35	1
Calcium	4.1		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	62		10	10	mg/L			04/14/21 18:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.70				SU			04/08/21 10:57	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: EB-2

Lab Sample ID: 180-119811-8

Date Collected: 04/07/21 12:20

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/13/21 14:30	1
Fluoride	<0.026		0.10	0.026	mg/L			04/13/21 14:30	1
Sulfate	<0.76		1.0	0.76	mg/L			04/13/21 14:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 14:37	1
Calcium	<0.13		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/14/21 18:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: FB-2

Lab Sample ID: 180-119811-9

Date Collected: 04/08/21 13:40

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/13/21 14:47	1
Fluoride	<0.026		0.10	0.026	mg/L			04/13/21 14:47	1
Sulfate	<0.76		1.0	0.76	mg/L			04/13/21 14:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 14:45	1
Calcium	<0.13		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/14/21 18:42	1



Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: Dup-2
 Date Collected: 04/07/21 00:00
 Date Received: 04/10/21 10:00

Lab Sample ID: 180-119811-10
 Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		1.0	0.71	mg/L			04/13/21 18:58	1
Fluoride	1.1		0.10	0.026	mg/L			04/13/21 18:58	1
Sulfate	170		1.0	0.76	mg/L			04/13/21 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.1		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 14:48	1
Calcium	80		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 14:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	470		10	10	mg/L			04/14/21 18:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: Dup-1

Lab Sample ID: 180-119811-11

Date Collected: 04/08/21 00:00

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40		1.0	0.71	mg/L			04/13/21 11:04	1
Fluoride	2.2		0.10	0.026	mg/L			04/13/21 11:04	1
Sulfate	100		1.0	0.76	mg/L			04/13/21 11:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.60		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 14:51	1
Calcium	57		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	290		10	10	mg/L			04/14/21 18:42	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: FB-1

Lab Sample ID: 180-119811-12

Date Collected: 04/07/21 15:10

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/13/21 15:05	1
Fluoride	<0.026		0.10	0.026	mg/L			04/13/21 15:05	1
Sulfate	<0.76		1.0	0.76	mg/L			04/13/21 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 14:54	1
Calcium	<0.13		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 14:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/14/21 18:42	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: EB-1

Lab Sample ID: 180-119811-13

Date Collected: 04/07/21 15:40

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/13/21 16:35	1
Fluoride	<0.026		0.10	0.026	mg/L			04/13/21 16:35	1
Sulfate	<0.76		1.0	0.76	mg/L			04/13/21 16:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 14:56	1
Calcium	<0.13		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/14/21 18:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-27D

Lab Sample ID: 180-119811-14

Date Collected: 04/07/21 15:29

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		1.0	0.71	mg/L			04/13/21 10:28	1
Fluoride	0.20		0.10	0.026	mg/L			04/13/21 10:28	1
Sulfate	92		1.0	0.76	mg/L			04/13/21 10:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.18		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 14:59	1
Calcium	26		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	480		10	10	mg/L			04/14/21 18:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.38				SU			04/07/21 15:29	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-23D

Lab Sample ID: 180-119811-15

Date Collected: 04/08/21 11:55

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39		1.0	0.71	mg/L			04/13/21 11:22	1
Fluoride	2.2		0.10	0.026	mg/L			04/13/21 11:22	1
Sulfate	98		1.0	0.76	mg/L			04/13/21 11:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.59		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 15:02	1
Calcium	59		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 15:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		10	10	mg/L			04/14/21 18:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.94				SU			04/08/21 11:55	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-29D

Lab Sample ID: 180-119811-16

Date Collected: 04/08/21 13:15

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.5		1.0	0.71	mg/L			04/13/21 11:40	1
Fluoride	0.056	J	0.10	0.026	mg/L			04/13/21 11:40	1
Sulfate	6.4		1.0	0.76	mg/L			04/13/21 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 15:04	1
Calcium	35		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 15:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	180		10	10	mg/L			04/14/21 18:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.34				SU			04/08/21 13:15	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Client Sample ID: PZ-27S

Lab Sample ID: 180-119811-17

Date Collected: 04/08/21 14:31

Matrix: Water

Date Received: 04/10/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77		1.0	0.71	mg/L			04/14/21 00:53	1
Fluoride	0.028	J	0.10	0.026	mg/L			04/14/21 00:53	1
Sulfate	5.8		1.0	0.76	mg/L			04/14/21 00:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.43		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 15:07	1
Calcium	16		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 15:07	1
Lithium	0.0044	J	0.0050	0.0034	mg/L		04/12/21 12:45	04/15/21 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	180		10	10	mg/L			04/14/21 18:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.39				SU			04/08/21 14:31	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

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

Lab Sample ID: MB 180-352846/3
Matrix: Water
Analysis Batch: 352846

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/13/21 22:30	1
Fluoride	<0.026		0.10	0.026	mg/L			04/13/21 22:30	1
Sulfate	<0.76		1.0	0.76	mg/L			04/13/21 22:30	1

Lab Sample ID: MB 180-352846/6
Matrix: Water
Analysis Batch: 352846

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/13/21 08:48	1
Fluoride	<0.026		0.10	0.026	mg/L			04/13/21 08:48	1
Sulfate	<0.76		1.0	0.76	mg/L			04/13/21 08:48	1

Lab Sample ID: LCS 180-352846/42
Matrix: Water
Analysis Batch: 352846

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	54.8		mg/L		110	90 - 110
Fluoride	2.50	2.56		mg/L		103	90 - 110
Sulfate	50.0	54.1		mg/L		108	90 - 110

Lab Sample ID: LCS 180-352846/5
Matrix: Water
Analysis Batch: 352846

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	53.7		mg/L		107	90 - 110
Fluoride	2.50	2.52		mg/L		101	90 - 110
Sulfate	50.0	53.9		mg/L		108	90 - 110

Lab Sample ID: 180-119811-3 MS
Matrix: Water
Analysis Batch: 352846

Client Sample ID: PZ-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.4		50.0	52.2		mg/L		100	90 - 110
Fluoride	1.4	F1	2.50	3.58	F1	mg/L		87	90 - 110
Sulfate	60		50.0	107		mg/L		94	90 - 110

Lab Sample ID: 180-119811-3 MSD
Matrix: Water
Analysis Batch: 352846

Client Sample ID: PZ-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.4		50.0	52.5		mg/L		100	90 - 110	0	20
Fluoride	1.4	F1	2.50	3.60	F1	mg/L		88	90 - 110	1	20
Sulfate	60		50.0	108		mg/L		95	90 - 110	0	20

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

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

Lab Sample ID: 180-119811-4 MS
Matrix: Water
Analysis Batch: 352846

Client Sample ID: PZ-25S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.7		50.0	52.9		mg/L		98	90 - 110
Fluoride	0.093	J	2.50	2.38		mg/L		92	90 - 110
Sulfate	5.1		50.0	53.6		mg/L		97	90 - 110

Lab Sample ID: 180-119811-4 MSD
Matrix: Water
Analysis Batch: 352846

Client Sample ID: PZ-25S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.7		50.0	53.2		mg/L		99	90 - 110	1	20
Fluoride	0.093	J	2.50	2.39		mg/L		92	90 - 110	0	20
Sulfate	5.1		50.0	54.2		mg/L		98	90 - 110	1	20

Lab Sample ID: 180-119811-7 MS
Matrix: Water
Analysis Batch: 352846

Client Sample ID: PZ-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.6		50.0	50.3		mg/L		93	90 - 110
Fluoride	<0.026		2.50	2.30		mg/L		92	90 - 110
Sulfate	1.7		50.0	48.9		mg/L		94	90 - 110

Lab Sample ID: 180-119811-7 MSD
Matrix: Water
Analysis Batch: 352846

Client Sample ID: PZ-28
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.6		50.0	52.0		mg/L		97	90 - 110	3	20
Fluoride	<0.026		2.50	2.37		mg/L		95	90 - 110	3	20
Sulfate	1.7		50.0	50.8		mg/L		98	90 - 110	4	20

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

Lab Sample ID: MB 180-352766/1-A
Matrix: Water
Analysis Batch: 353260

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 352766

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		04/12/21 12:45	04/15/21 13:58	1
Calcium	<0.13		0.50	0.13	mg/L		04/12/21 12:45	04/15/21 13:58	1
Lithium	<0.0034		0.0050	0.0034	mg/L		04/12/21 12:45	04/15/21 13:58	1

Lab Sample ID: LCS 180-352766/2-A
Matrix: Water
Analysis Batch: 353260

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 352766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.22		mg/L		98	80 - 120
Calcium	25.0	30.1		mg/L		120	80 - 120
Lithium	0.500	0.551		mg/L		110	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

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

Lab Sample ID: 180-119811-1 MS
Matrix: Water
Analysis Batch: 353260

Client Sample ID: PZ-22
Prep Type: Total Recoverable
Prep Batch: 352766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.98		1.25	2.25		mg/L		101	75 - 125
Calcium	88		25.0	117		mg/L		118	75 - 125
Lithium	0.11		0.500	0.655		mg/L		109	75 - 125

Lab Sample ID: 180-119811-1 MSD
Matrix: Water
Analysis Batch: 353260

Client Sample ID: PZ-22
Prep Type: Total Recoverable
Prep Batch: 352766

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	0.98		1.25	2.20		mg/L		97	75 - 125	2	20
Calcium	88		25.0	119		mg/L		124	75 - 125	1	20
Lithium	0.11		0.500	0.642		mg/L		106	75 - 125	2	20

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

Lab Sample ID: MB 180-353099/2
Matrix: Water
Analysis Batch: 353099

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/14/21 18:42	1

Lab Sample ID: LCS 180-353099/1
Matrix: Water
Analysis Batch: 353099

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	486	448		mg/L		92	80 - 120

Lab Sample ID: 180-119811-10 DU
Matrix: Water
Analysis Batch: 353099

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	470		500		mg/L		6	10

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

HPLC/IC

Analysis Batch: 352846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119811-1	PZ-22	Total/NA	Water	EPA 300.0 R2.1	
180-119811-1	PZ-22	Total/NA	Water	EPA 300.0 R2.1	
180-119811-2	PZ-23S	Total/NA	Water	EPA 300.0 R2.1	
180-119811-3	PZ-24	Total/NA	Water	EPA 300.0 R2.1	
180-119811-4	PZ-25S	Total/NA	Water	EPA 300.0 R2.1	
180-119811-5	PZ-26S	Total/NA	Water	EPA 300.0 R2.1	
180-119811-6	PZ-26D	Total/NA	Water	EPA 300.0 R2.1	
180-119811-7	PZ-28	Total/NA	Water	EPA 300.0 R2.1	
180-119811-8	EB-2	Total/NA	Water	EPA 300.0 R2.1	
180-119811-9	FB-2	Total/NA	Water	EPA 300.0 R2.1	
180-119811-10	Dup-2	Total/NA	Water	EPA 300.0 R2.1	
180-119811-11	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
180-119811-12	FB-1	Total/NA	Water	EPA 300.0 R2.1	
180-119811-13	EB-1	Total/NA	Water	EPA 300.0 R2.1	
180-119811-14	PZ-27D	Total/NA	Water	EPA 300.0 R2.1	
180-119811-15	PZ-23D	Total/NA	Water	EPA 300.0 R2.1	
180-119811-16	PZ-29D	Total/NA	Water	EPA 300.0 R2.1	
180-119811-17	PZ-27S	Total/NA	Water	EPA 300.0 R2.1	
MB 180-352846/43	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-352846/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-352846/42	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-352846/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-119811-3 MS	PZ-24	Total/NA	Water	EPA 300.0 R2.1	
180-119811-3 MSD	PZ-24	Total/NA	Water	EPA 300.0 R2.1	
180-119811-4 MS	PZ-25S	Total/NA	Water	EPA 300.0 R2.1	
180-119811-4 MSD	PZ-25S	Total/NA	Water	EPA 300.0 R2.1	
180-119811-7 MS	PZ-28	Total/NA	Water	EPA 300.0 R2.1	
180-119811-7 MSD	PZ-28	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 352766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119811-1	PZ-22	Total Recoverable	Water	3005A	
180-119811-2	PZ-23S	Total Recoverable	Water	3005A	
180-119811-3	PZ-24	Total Recoverable	Water	3005A	
180-119811-4	PZ-25S	Total Recoverable	Water	3005A	
180-119811-5	PZ-26S	Total Recoverable	Water	3005A	
180-119811-6	PZ-26D	Total Recoverable	Water	3005A	
180-119811-7	PZ-28	Total Recoverable	Water	3005A	
180-119811-8	EB-2	Total Recoverable	Water	3005A	
180-119811-9	FB-2	Total Recoverable	Water	3005A	
180-119811-10	Dup-2	Total Recoverable	Water	3005A	
180-119811-11	Dup-1	Total Recoverable	Water	3005A	
180-119811-12	FB-1	Total Recoverable	Water	3005A	
180-119811-13	EB-1	Total Recoverable	Water	3005A	
180-119811-14	PZ-27D	Total Recoverable	Water	3005A	
180-119811-15	PZ-23D	Total Recoverable	Water	3005A	
180-119811-16	PZ-29D	Total Recoverable	Water	3005A	
180-119811-17	PZ-27S	Total Recoverable	Water	3005A	
MB 180-352766/1-A	Method Blank	Total Recoverable	Water	3005A	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

Metals (Continued)

Prep Batch: 352766 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-352766/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-119811-1 MS	PZ-22	Total Recoverable	Water	3005A	
180-119811-1 MSD	PZ-22	Total Recoverable	Water	3005A	

Analysis Batch: 353260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119811-1	PZ-22	Total Recoverable	Water	EPA 6020B	352766
180-119811-2	PZ-23S	Total Recoverable	Water	EPA 6020B	352766
180-119811-3	PZ-24	Total Recoverable	Water	EPA 6020B	352766
180-119811-4	PZ-25S	Total Recoverable	Water	EPA 6020B	352766
180-119811-5	PZ-26S	Total Recoverable	Water	EPA 6020B	352766
180-119811-6	PZ-26D	Total Recoverable	Water	EPA 6020B	352766
180-119811-7	PZ-28	Total Recoverable	Water	EPA 6020B	352766
180-119811-8	EB-2	Total Recoverable	Water	EPA 6020B	352766
180-119811-9	FB-2	Total Recoverable	Water	EPA 6020B	352766
180-119811-10	Dup-2	Total Recoverable	Water	EPA 6020B	352766
180-119811-11	Dup-1	Total Recoverable	Water	EPA 6020B	352766
180-119811-12	FB-1	Total Recoverable	Water	EPA 6020B	352766
180-119811-13	EB-1	Total Recoverable	Water	EPA 6020B	352766
180-119811-14	PZ-27D	Total Recoverable	Water	EPA 6020B	352766
180-119811-15	PZ-23D	Total Recoverable	Water	EPA 6020B	352766
180-119811-16	PZ-29D	Total Recoverable	Water	EPA 6020B	352766
180-119811-17	PZ-27S	Total Recoverable	Water	EPA 6020B	352766
MB 180-352766/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	352766
LCS 180-352766/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	352766
180-119811-1 MS	PZ-22	Total Recoverable	Water	EPA 6020B	352766
180-119811-1 MSD	PZ-22	Total Recoverable	Water	EPA 6020B	352766

General Chemistry

Analysis Batch: 353099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119811-1	PZ-22	Total/NA	Water	SM 2540C	
180-119811-2	PZ-23S	Total/NA	Water	SM 2540C	
180-119811-3	PZ-24	Total/NA	Water	SM 2540C	
180-119811-4	PZ-25S	Total/NA	Water	SM 2540C	
180-119811-5	PZ-26S	Total/NA	Water	SM 2540C	
180-119811-6	PZ-26D	Total/NA	Water	SM 2540C	
180-119811-7	PZ-28	Total/NA	Water	SM 2540C	
180-119811-8	EB-2	Total/NA	Water	SM 2540C	
180-119811-9	FB-2	Total/NA	Water	SM 2540C	
180-119811-10	Dup-2	Total/NA	Water	SM 2540C	
180-119811-11	Dup-1	Total/NA	Water	SM 2540C	
180-119811-12	FB-1	Total/NA	Water	SM 2540C	
180-119811-13	EB-1	Total/NA	Water	SM 2540C	
180-119811-14	PZ-27D	Total/NA	Water	SM 2540C	
180-119811-15	PZ-23D	Total/NA	Water	SM 2540C	
180-119811-16	PZ-29D	Total/NA	Water	SM 2540C	
180-119811-17	PZ-27S	Total/NA	Water	SM 2540C	
MB 180-353099/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-353099/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Wansley Ash Pond PZ

Job ID: 180-119811-1

General Chemistry (Continued)

Analysis Batch: 353099 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119811-10 DU	Dup-2	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 352774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-119811-1	PZ-22	Total/NA	Water	Field Sampling	
180-119811-2	PZ-23S	Total/NA	Water	Field Sampling	
180-119811-3	PZ-24	Total/NA	Water	Field Sampling	
180-119811-4	PZ-25S	Total/NA	Water	Field Sampling	
180-119811-5	PZ-26S	Total/NA	Water	Field Sampling	
180-119811-6	PZ-26D	Total/NA	Water	Field Sampling	
180-119811-7	PZ-28	Total/NA	Water	Field Sampling	
180-119811-14	PZ-27D	Total/NA	Water	Field Sampling	
180-119811-15	PZ-23D	Total/NA	Water	Field Sampling	
180-119811-16	PZ-29D	Total/NA	Water	Field Sampling	
180-119811-17	PZ-27S	Total/NA	Water	Field Sampling	

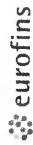
Chain of Custody Record



Client Information Client Contact: <u>T. Gobie</u> SCS Contacts: <u>Shaili.brown@eurofinset.com</u> Company: <u>GA Power</u>		Lab PM: <u>Brown, Shaili</u> E-Mail: <u>shaili.brown@eurofinset.com</u>		Carrier Tracking No(s): COC No:	
Address: <u>241 Ralph McGill Blvd SE</u> City: <u>Atlanta</u> State, Zip: <u>GA, 30308</u> Phone: <u>404-506-7116(Tel)</u> Email:		Due Date Requested: TAT Requested (days): <u>RUSH 3-day TAT</u> PO #:		Page: <u>1 of 2</u> Job #:	
Project Name: <u>CCR - Plant Wansley Ash Pond PZ</u> Project #: <u>18019922</u> SSOW#:		App III Metals (B, Ca) Perform MS/MSD (Yes or No)		Total Number of Containers	
Sample Identification		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
Sample ID: <u>PZ-22</u>	Sample Date: <u>4-8-21</u>	Sample Time: <u>1400</u>	Sample Type (C-comp, G-grab): <u>G</u>	Matrix (W-water, S-solid, O-wastewat, BT-Tissue, A-Air): <u>Water</u>	pH: <u>5.60</u>
<u>PZ-23S</u>	<u>4-7-21</u>	<u>1254</u>	<u>G</u>	<u>Water</u>	pH: <u>7.05</u>
<u>PZ-24</u>	<u>4-8-21</u>	<u>1230</u>	<u>G</u>	<u>Water</u>	pH: <u>6.01</u>
<u>PZ-25S</u>	<u>4-7-21</u>	<u>1120</u>	<u>G</u>	<u>Water</u>	pH: <u>5.57</u>
<u>PZ-26S</u>	<u>4-7-21</u>	<u>1428</u>	<u>G</u>	<u>Water</u>	pH: <u>4.43</u>
<u>PZ-26D</u>	<u>4-7-21</u>	<u>1537</u>	<u>G</u>	<u>Water</u>	pH: <u>6.46</u>
<u>PZ-28</u>	<u>4-8-21</u>	<u>1057</u>	<u>G</u>	<u>Water</u>	pH: <u>5.70</u>
<u>EB-2</u>	<u>4-7-21</u>	<u>1220</u>	<u>G</u>	<u>Water</u>	pH: <u>NA</u>
<u>EB-2</u>	<u>4-8-21</u>	<u>1340</u>	<u>G</u>	<u>Water</u>	pH: <u>NA</u>
<u>Dup-2</u>	<u>4-7-21</u>		<u>G</u>	<u>Water</u>	pH: <u>NA</u>
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				
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:		Method of Shipment:	
Empty Kit Relinquished by:		Date:		Time:	
Relinquished by: <u>Taylor Jell</u>		Date/Time: <u>4-9-21 / 0910</u>		Company: <u>ACC</u>	
Relinquished by: <u>Shaili</u>		Date/Time: <u>4/9/21</u>		Company: <u>ETA</u>	
Relinquished by: <u>Shaili</u>		Date/Time: <u>4/10/21</u>		Company: <u>ETA</u>	
Custody Seals Intact: <u>Yes</u>		Date/Time: <u>16:00</u>		Company:	
Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Date/Time: <u>10:00</u>	



Chain of Custody Record



Client Information Client Contact: <u>O. FUGUEA</u> SCS Contacts: <u>(770) 594-5998</u> Company: <u>shali.brown@eurofinset.com</u> GA, Power		Lab PM: <u>Brown, Shali</u> E-Mail: <u>shali.brown@eurofinset.com</u> Carrier Tracking No(s):		COC No: Page: <u>2 of 2</u> Job #:					
Due Date Requested: TAT Requested (days): <u>RUSH 3-day TAT</u> PO #: _____ WO #: _____ Project #: <u>18019922</u> SSO#: _____		Analysis Requested							
Address: <u>241 Ralph McGill Blvd SE</u> City: <u>Atlanta</u> State, Zip: <u>GA, 30308</u> Phone: <u>404-506-7116(Tel)</u> Email: _____ SCS Contacts: _____ Project Name: <u>CCR - Plant Wansley Ash Pond PZ</u> Site: _____		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> App III Metals (B, Ca) <input checked="" type="checkbox"/> C1, F, SO & TDS (EPA 300 & SM 2540C) <input checked="" type="checkbox"/> Total Number of Containers:		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S 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 Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air) Preservation Code:		Special Instructions/Note:							
<u>DUP-1</u> <u>FB-1</u> <u>EB-1</u> <u>PZ-27D</u> <u>PZ-23D</u> <u>PZ-79D</u> <u>PZ-27S</u>		<u>4-8-21</u> <u>4-7-21</u> <u>4-7-21</u> <u>4-7-21</u> <u>4-8-21</u> <u>4-8-21</u> <u>4-8-21</u>		<u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u> <u>G</u>		<u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u>		<u>3</u> pH= <u>NA</u> <u>3</u> pH= <u>NA</u> <u>3</u> pH= <u>NA</u> <u>3</u> pH= <u>7.38</u> <u>3</u> pH= <u>6.94</u> <u>3</u> pH= <u>6.34</u> <u>3</u> pH= <u>5.39</u> 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"/> Unknown <input type="checkbox"/> Poison B <input type="checkbox"/> Radiological									
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: <u>John Hall</u> Date: <u>4-9-21/0910</u> Company: <u>ACC</u> Relinquished by: _____ Date: <u>4/9/21</u> Date/Time: <u>16:00</u> Company: <u>Company</u>									
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:									
Cooler Temperature(s) °C and Other Remarks:									



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SDR

FedEx Saturday Delivery

DR



ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 09A
ACTWGT: 45.25
CAD: 859116ZCAF

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

SATURDAY 12:00P
PRIORITY OVERNIGHT

2 of 2
MPS# 1516 9329 3478
Mstr# 1516 9329 3467

XO AGCA

Uncorrected temp 3.2 °C
Thermometer ID 14

15238 PIT

CF Initials

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



ID: LIYA (678) 966-9991
TAYLOR
S TESTING AMERICA ATL SC
REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 09APR21
ACTWGT: 45.25 LB
CAD: 859116ZCAF3409

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

SATURDAY 12:00P
PRIORITY OVERNIGHT

1 of 2
TRK# 1516 9329 3467
0201
MASTER

XO AGCA

Uncorrected temp 3.4 °C
Thermometer ID 14

15238 PIT

CF Initials

PT-WI-SR-001 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: 180-119811-1

Login Number: 119811

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: 180-126277-1
Client Project/Site: 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:
10/4/2021 3:35:03 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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

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

PA Lab ID: 02-00416



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Case Narrative

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

Job ID: 180-126277-1

Job ID: 180-126277-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-126277-1

Comments

100421 Revised report to include re-analysis results for the following sample at client request: 180-126367-6 (EB-3). This report replaces the report previously issued on 092021.

Receipt

The samples were received on 8/26/2021 10:00 AM and 8/28/2021 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 22 coolers at receipt time were 2.3° C, 2.3° C, 2.5° C, 2.5° C, 2.8° C, 2.8° C, 3.1° C, 3.1° C, 3.6° C, 3.6° C, 3.7° C, 3.7° C, 3.8° C, 3.8° C, 3.8° C, 3.8° C, 4.2° C, 4.2° C, 4.6° C, 4.6° C, 4.8° C and 4.8° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): EB-1 (180-126278-2). The container labels list a sample id of EB-2, while the COC lists EB-1. The ID on the COC was used.

GC Semi VOA

Method 300.0: The matrix spike duplicate (MSD) recoveries for analytical batch 180-370761, 180-370919 and 180-371083 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was 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 matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 180-370941 and analytical batch 180-371007 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

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

Field Service / Mobile Lab

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

General Chemistry

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

Definitions/Glossary

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

Job ID: 180-126277-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
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 Ash Pond

Job ID: 180-126277-1

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

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



Sample Summary

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

Job ID: 180-126277-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-126277-1	WGWA-5	Water	08/24/21 12:18	08/26/21 10:00
180-126277-2	FB-1	Water	08/24/21 13:20	08/26/21 10:00
180-126277-3	WGWA-6	Water	08/24/21 13:40	08/26/21 10:00
180-126277-4	WGWA-7	Water	08/24/21 15:10	08/26/21 10:00
180-126277-5	Dup-1	Water	08/24/21 00:00	08/26/21 10:00
180-126278-1	WGWA-2	Water	08/23/21 15:35	08/26/21 10:00
180-126278-2	EB-1	Water	08/24/21 11:00	08/26/21 10:00
180-126278-3	WGWA-1	Water	08/24/21 11:45	08/26/21 10:00
180-126278-4	WGWA-4	Water	08/24/21 14:10	08/26/21 10:00
180-126364-1	WGWA-18	Water	08/25/21 11:25	08/28/21 09:15
180-126364-2	WGWC-13	Water	08/25/21 12:45	08/28/21 09:15
180-126364-3	WGWC-14A	Water	08/25/21 13:30	08/28/21 09:15
180-126364-4	EB-2	Water	08/25/21 15:05	08/28/21 09:15
180-126364-5	WGWC-17	Water	08/25/21 14:55	08/28/21 09:15
180-126364-6	WGWC-19	Water	08/26/21 11:05	08/28/21 09:15
180-126364-7	Dup-2	Water	08/26/21 00:00	08/28/21 09:15
180-126364-8	WGWC-10	Water	08/26/21 12:35	08/28/21 09:15
180-126364-9	WGWC-24	Water	08/26/21 13:55	08/28/21 09:15
180-126364-10	Dup-3	Water	08/26/21 00:00	08/28/21 09:15
180-126364-11	WGWC-25	Water	08/26/21 15:52	08/28/21 09:15
180-126364-12	WGWC-8	Water	08/26/21 12:41	08/28/21 09:15
180-126364-13	WGWC-15	Water	08/26/21 16:14	08/28/21 09:15
180-126364-14	WGWC-20	Water	08/26/21 11:32	08/28/21 09:15
180-126364-15	WGWC-23	Water	08/26/21 14:55	08/28/21 09:15
180-126364-16	FB-3	Water	08/26/21 14:53	08/28/21 09:15
180-126367-1	WGWA-3	Water	08/25/21 10:50	08/28/21 09:15
180-126367-2	WGWC-11	Water	08/25/21 12:00	08/28/21 09:15
180-126367-3	WGWC-12	Water	08/25/21 13:30	08/28/21 09:15
180-126367-4	FB-2	Water	08/25/21 14:35	08/28/21 09:15
180-126367-5	WGWC-16	Water	08/25/21 14:50	08/28/21 09:15
180-126367-6	EB-3	Water	08/26/21 10:10	08/28/21 09:15
180-126367-7	WGWC-21	Water	08/26/21 11:30	08/28/21 09:15
180-126367-8	WGWC-9	Water	08/26/21 13:00	08/28/21 09:15
180-126367-9	WGWC-22	Water	08/26/21 15:20	08/28/21 09:15

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Method Summary

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

Job ID: 180-126277-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

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

Job ID: 180-126277-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-126277-1

Date Collected: 08/24/21 12:18

Matrix: Water

Date Received: 08/26/21 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 Instrument ID: CHICS2100B		1			370761	09/10/21 09:37	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369722	08/31/21 08:56	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			369936	09/01/21 08:57	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369661	08/30/21 15:16	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			369662	08/24/21 12:18	FDS	TAL PIT

Client Sample ID: FB-1

Lab Sample ID: 180-126277-2

Date Collected: 08/24/21 13:20

Matrix: Water

Date Received: 08/26/21 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 Instrument ID: CHICS2100B		1			370761	09/10/21 13:10	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369722	08/31/21 08:56	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			369936	09/01/21 09:00	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369661	08/30/21 15:16	KMM	TAL PIT

Client Sample ID: WGWA-6

Lab Sample ID: 180-126277-3

Date Collected: 08/24/21 13:40

Matrix: Water

Date Received: 08/26/21 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 Instrument ID: CHICS2100B		1			370761	09/10/21 13:42	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369722	08/31/21 08:56	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			369936	09/01/21 09:03	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369661	08/30/21 15:16	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			369662	08/24/21 13:40	FDS	TAL PIT

Client Sample ID: WGWA-7

Lab Sample ID: 180-126277-4

Date Collected: 08/24/21 15:10

Matrix: Water

Date Received: 08/26/21 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 Instrument ID: CHICS2100B		1			370761	09/10/21 13:26	J1T	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-126277-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-126277-4

Date Collected: 08/24/21 15:10

Matrix: Water

Date Received: 08/26/21 10:00

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	369722	08/31/21 08:56	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369936	09/01/21 09:11	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369661	08/30/21 15:16	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			369662	08/24/21 15:10	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: Dup-1

Lab Sample ID: 180-126277-5

Date Collected: 08/24/21 00:00

Matrix: Water

Date Received: 08/26/21 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			371996	09/19/21 19:40	DFE	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	369722	08/31/21 08:56	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369936	09/01/21 09:14	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369797	08/31/21 13:45	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-2

Lab Sample ID: 180-126278-1

Date Collected: 08/23/21 15:35

Matrix: Water

Date Received: 08/26/21 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			371083	09/11/21 16:57	J1T	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	EPA 300.0 R2.1		1			370384	09/07/21 22:59	SAB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			50 mL	50 mL	369722	08/31/21 08:56	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369936	09/01/21 09:17	RJR	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369673	08/30/21 17:35	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			369662	08/23/21 15:35	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-1

Lab Sample ID: 180-126278-2

Date Collected: 08/24/21 11:00

Matrix: Water

Date Received: 08/26/21 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			371083	09/11/21 17:46	J1T	TAL PIT
Instrument ID: CHICS2100B										

Lab Chronicle

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

Job ID: 180-126277-1

Client Sample ID: EB-1

Lab Sample ID: 180-126278-2

Date Collected: 08/24/21 11:00

Matrix: Water

Date Received: 08/26/21 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			370384	09/07/21 21:30	SAB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369722	08/31/21 08:56	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369936	09/01/21 09:20	RJR	TAL PIT
		Instrument ID: NEMO								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369661	08/30/21 15:16	KMM	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: WGWA-1

Lab Sample ID: 180-126278-3

Date Collected: 08/24/21 11:45

Matrix: Water

Date Received: 08/26/21 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			371083	09/11/21 18:03	J1T	TAL PIT
		Instrument ID: CHICS2100B								
Total/NA	Analysis	EPA 300.0 R2.1		1			370384	09/07/21 21:12	SAB	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	369722	08/31/21 08:56	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369936	09/01/21 09:23	RJR	TAL PIT
		Instrument ID: NEMO								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369661	08/30/21 15:16	KMM	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			369662	08/24/21 11:45	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: WGWA-4

Lab Sample ID: 180-126278-4

Date Collected: 08/24/21 14:10

Matrix: Water

Date Received: 08/26/21 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			371083	09/11/21 18:19	J1T	TAL PIT
		Instrument ID: CHICS2100B								
Total/NA	Analysis	EPA 300.0 R2.1		1			370384	09/07/21 23:53	SAB	TAL PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			50 mL	50 mL	369722	08/31/21 08:56	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			369936	09/01/21 09:26	RJR	TAL PIT
		Instrument ID: NEMO								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369797	08/31/21 13:45	KMM	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	Field Sampling		1			369662	08/24/21 14:10	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Lab Chronicle

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

Job ID: 180-126277-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-126364-1

Date Collected: 08/25/21 11:25

Matrix: Water

Date Received: 08/28/21 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			370919	09/11/21 03:39	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369957	09/01/21 16:11	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			370289	09/03/21 10:35	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369958	09/01/21 16:13	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			369662	08/25/21 11:25	FDS	TAL PIT

Client Sample ID: WGWC-13

Lab Sample ID: 180-126364-2

Date Collected: 08/25/21 12:45

Matrix: Water

Date Received: 08/28/21 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			370919	09/11/21 04:28	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369957	09/01/21 16:11	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			370289	09/03/21 10:38	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369958	09/01/21 16:13	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			369662	08/25/21 12:45	FDS	TAL PIT

Client Sample ID: WGWC-14A

Lab Sample ID: 180-126364-3

Date Collected: 08/25/21 13:30

Matrix: Water

Date Received: 08/28/21 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			370919	09/11/21 04:45	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369957	09/01/21 16:11	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			370289	09/03/21 10:42	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369958	09/01/21 16:13	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			369662	08/25/21 13:30	FDS	TAL PIT

Lab Chronicle

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

Job ID: 180-126277-1

Client Sample ID: EB-2

Lab Sample ID: 180-126364-4

Date Collected: 08/25/21 15:05

Matrix: Water

Date Received: 08/28/21 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			370919	09/11/21 05:01	J1T	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	369957	09/01/21 16:11	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370289	09/03/21 11:00	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369958	09/01/21 16:13	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-17

Lab Sample ID: 180-126364-5

Date Collected: 08/25/21 14:55

Matrix: Water

Date Received: 08/28/21 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			370919	09/11/21 05:17	J1T	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	369957	09/01/21 16:11	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370289	09/03/21 11:04	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	369958	09/01/21 16:13	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			369662	08/25/21 14:55	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-19

Lab Sample ID: 180-126364-6

Date Collected: 08/26/21 11:05

Matrix: Water

Date Received: 08/28/21 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			370919	09/11/21 05:34	J1T	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	369957	09/01/21 16:11	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370289	09/03/21 11:08	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	370094	09/02/21 11:51	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			369662	08/26/21 11:05	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: Dup-2

Lab Sample ID: 180-126364-7

Date Collected: 08/26/21 00:00

Matrix: Water

Date Received: 08/28/21 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			370919	09/11/21 06:39	J1T	TAL PIT
Instrument ID: CHIC2100A										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-126277-1

Client Sample ID: Dup-2

Date Collected: 08/26/21 00:00

Date Received: 08/28/21 09:15

Lab Sample ID: 180-126364-7

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	369957	09/01/21 16:11	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370289	09/03/21 11:11	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	370094	09/02/21 11:51	KMM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10

Date Collected: 08/26/21 12:35

Date Received: 08/28/21 09:15

Lab Sample ID: 180-126364-8

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			370919	09/11/21 06:55	J1T	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	369963	09/01/21 17:08	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370294	09/03/21 13:16	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	370094	09/02/21 11:51	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			369662	08/26/21 12:35	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-24

Date Collected: 08/26/21 13:55

Date Received: 08/28/21 09:15

Lab Sample ID: 180-126364-9

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			370919	09/11/21 07:12	J1T	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370294	09/03/21 15:19	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370307	09/04/21 10:39	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	370941	09/10/21 09:50	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			371007	09/10/21 15:48	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	370094	09/02/21 11:51	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			369662	08/26/21 13:55	FDS	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-126277-1

Client Sample ID: Dup-3
Date Collected: 08/26/21 00:00
Date Received: 08/28/21 09:15

Lab Sample ID: 180-126364-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			370919	09/11/21 07:44	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			370294	09/03/21 15:22	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			370307	09/04/21 10:42	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	370941	09/10/21 09:50	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			371007	09/10/21 15:49	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	370094	09/02/21 11:51	KMM	TAL PIT

Client Sample ID: WGWC-25
Date Collected: 08/26/21 15:52
Date Received: 08/28/21 09:15

Lab Sample ID: 180-126364-11
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 Instrument ID: CHIC2100A		1			370919	09/11/21 08:17	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			370294	09/03/21 15:25	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			370307	09/04/21 10:45	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	370941	09/10/21 09:50	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			371007	09/10/21 15:25	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	370094	09/02/21 11:51	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			369662	08/26/21 15:52	FDS	TAL PIT

Client Sample ID: WGWC-8
Date Collected: 08/26/21 12:41
Date Received: 08/28/21 09:15

Lab Sample ID: 180-126364-12
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 Instrument ID: CHIC2100A		1			370919	09/11/21 11:31	J1T	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		5			370919	09/11/21 11:47	J1T	TAL PIT

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Lab Chronicle

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

Job ID: 180-126277-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-126364-12

Date Collected: 08/26/21 12:41

Matrix: Water

Date Received: 08/28/21 09:15

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	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370294	09/03/21 15:27	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370307	09/04/21 10:47	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	370094	09/02/21 11:51	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			369662	08/26/21 12:41	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Lab Sample ID: 180-126364-13

Date Collected: 08/26/21 16:14

Matrix: Water

Date Received: 08/28/21 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			370919	09/11/21 09:06	J1T	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370294	09/03/21 15:39	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370307	09/04/21 10:56	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	370094	09/02/21 11:51	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			369662	08/26/21 16:14	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-20

Lab Sample ID: 180-126364-14

Date Collected: 08/26/21 11:32

Matrix: Water

Date Received: 08/28/21 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			370919	09/11/21 12:02	J1T	TAL PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	EPA 300.0 R2.1		5			370919	09/11/21 12:18	J1T	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370294	09/03/21 15:42	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370307	09/04/21 10:59	RSK	TAL PIT
Instrument ID: NEMO										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-126277-1

Client Sample ID: WGWC-20

Lab Sample ID: 180-126364-14

Date Collected: 08/26/21 11:32

Matrix: Water

Date Received: 08/28/21 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	7470A			25 mL	25 mL	370941	09/10/21 09:50	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			371007	09/10/21 15:27	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	370094	09/02/21 11:51	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			369662	08/26/21 11:32	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-23

Lab Sample ID: 180-126364-15

Date Collected: 08/26/21 14:55

Matrix: Water

Date Received: 08/28/21 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			370919	09/11/21 10:11	J1T	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370294	09/03/21 15:45	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370307	09/04/21 11:02	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	370941	09/10/21 09:50	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			371007	09/10/21 15:28	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	370094	09/02/21 11:51	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			369662	08/26/21 14:55	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-3

Lab Sample ID: 180-126364-16

Date Collected: 08/26/21 14:53

Matrix: Water

Date Received: 08/28/21 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			370919	09/11/21 09:55	J1T	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370294	09/03/21 15:47	RSK	TAL PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			50 mL	50 mL	369967	09/01/21 17:34	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370307	09/04/21 11:10	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	370941	09/10/21 09:50	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			371007	09/10/21 15:34	KEM	TAL PIT
Instrument ID: HGZ										

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Lab Chronicle

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

Job ID: 180-126277-1

Client Sample ID: FB-3

Lab Sample ID: 180-126364-16

Date Collected: 08/26/21 14:53

Matrix: Water

Date Received: 08/28/21 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	370094	09/02/21 11:51	KMM	TAL PIT

Client Sample ID: WGWA-3

Lab Sample ID: 180-126367-1

Date Collected: 08/25/21 10:50

Matrix: Water

Date Received: 08/28/21 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: CHICS2100B		1			370999	09/11/21 12:09	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369963	09/01/21 17:08	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			370294	09/03/21 13:36	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369958	09/01/21 16:13	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			370651	08/25/21 10:50	FDS	TAL PIT

Client Sample ID: WGWC-11

Lab Sample ID: 180-126367-2

Date Collected: 08/25/21 12:00

Matrix: Water

Date Received: 08/28/21 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: CHICS2100B		1			370999	09/11/21 11:53	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369963	09/01/21 17:08	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			370294	09/03/21 13:39	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369958	09/01/21 16:13	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			370651	08/25/21 12:00	FDS	TAL PIT

Client Sample ID: WGWC-12

Lab Sample ID: 180-126367-3

Date Collected: 08/25/21 13:30

Matrix: Water

Date Received: 08/28/21 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: CHICS2100B		1			370999	09/11/21 11:36	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369963	09/01/21 17:08	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			370294	09/03/21 13:42	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369958	09/01/21 16:13	KMM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-126277-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-126367-3

Date Collected: 08/25/21 13:30

Matrix: Water

Date Received: 08/28/21 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	Field Sampling		1			370651	08/25/21 13:30	FDS	TAL PIT

Client Sample ID: FB-2

Lab Sample ID: 180-126367-4

Date Collected: 08/25/21 14:35

Matrix: Water

Date Received: 08/28/21 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: CHICS2100B		1			370999	09/11/21 11:20	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369963	09/01/21 17:08	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			370294	09/03/21 13:45	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369958	09/01/21 16:13	KMM	TAL PIT

Client Sample ID: WGWC-16

Lab Sample ID: 180-126367-5

Date Collected: 08/25/21 14:50

Matrix: Water

Date Received: 08/28/21 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: CHICS2100B		1			370999	09/11/21 09:36	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369963	09/01/21 17:08	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			370294	09/03/21 13:48	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	369959	09/01/21 16:21	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			370651	08/25/21 14:50	FDS	TAL PIT

Client Sample ID: EB-3

Lab Sample ID: 180-126367-6

Date Collected: 08/26/21 10:10

Matrix: Water

Date Received: 08/28/21 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: CHICS2100B		1			370999	09/11/21 07:41	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369963	09/01/21 17:08	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			370294	09/03/21 13:51	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	370941	09/10/21 09:50	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			371007	09/10/21 15:35	KEM	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	372692	09/24/21 06:57	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			372848	09/24/21 16:41	RJR	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-126277-1

Client Sample ID: EB-3

Lab Sample ID: 180-126367-6

Date Collected: 08/26/21 10:10

Matrix: Water

Date Received: 08/28/21 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	370094	09/02/21 11:51	KMM	TAL PIT

Client Sample ID: WGWC-21

Lab Sample ID: 180-126367-7

Date Collected: 08/26/21 11:30

Matrix: Water

Date Received: 08/28/21 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: CHICS2100B		1			370999	09/11/21 08:14	J1T	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		5			370999	09/11/21 08:30	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369963	09/01/21 17:08	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			370294	09/03/21 13:53	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	370941	09/10/21 09:50	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			371007	09/10/21 15:38	KEM	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	370094	09/02/21 11:51	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			370651	08/26/21 11:30	FDS	TAL PIT

Client Sample ID: WGWC-9

Lab Sample ID: 180-126367-8

Date Collected: 08/26/21 13:00

Matrix: Water

Date Received: 08/28/21 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: CHICS2100B		1			370999	09/11/21 08:46	J1T	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	369963	09/01/21 17:08	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			370294	09/03/21 13:56	RSK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	370094	09/02/21 11:51	KMM	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			370651	08/26/21 13:00	FDS	TAL PIT

Client Sample ID: WGWC-22

Lab Sample ID: 180-126367-9

Date Collected: 08/26/21 15:20

Matrix: Water

Date Received: 08/28/21 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: CHICS2100B		1			370999	09/11/21 07:57	J1T	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-126277-1

Client Sample ID: WGWC-22

Lab Sample ID: 180-126367-9

Date Collected: 08/26/21 15:20

Matrix: Water

Date Received: 08/28/21 09:15

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	369963	09/01/21 17:08	AMD	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			370294	09/03/21 13:59	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	370941	09/10/21 09:50	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			371007	09/10/21 15:39	KEM	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	370094	09/02/21 11:51	KMM	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			370651	08/26/21 15:20	FDS	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

AMD = Alysha Donlan
MM1 = Mary Beth Miller
RJR = Ron Rosenbaum

Batch Type: Analysis

DFE = David Eppinger
FDS = Sampler Field
J1T = Jianwu Tang
KEM = Kimberly Mahoney
KMM = Kendric Moore
RJR = Ron Rosenbaum
RSK = Robert Kurtz
SAB = Sharon Bacha

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-126277-1

Date Collected: 08/24/21 12:18

Matrix: Water

Date Received: 08/26/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1	F1	1.0	0.71	mg/L			09/10/21 09:37	1
Fluoride	0.073	J	0.10	0.026	mg/L			09/10/21 09:37	1
Sulfate	2.8	F1	1.0	0.76	mg/L			09/10/21 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/31/21 08:56	09/01/21 08:57	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/31/21 08:56	09/01/21 08:57	1
Barium	0.028		0.010	0.0016	mg/L		08/31/21 08:56	09/01/21 08:57	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/31/21 08:56	09/01/21 08:57	1
Boron	<0.039		0.080	0.039	mg/L		08/31/21 08:56	09/01/21 08:57	1
Calcium	47		0.50	0.13	mg/L		08/31/21 08:56	09/01/21 08:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/31/21 08:56	09/01/21 08:57	1
Cobalt	0.00079	J	0.0025	0.00013	mg/L		08/31/21 08:56	09/01/21 08:57	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/31/21 08:56	09/01/21 08:57	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/31/21 08:56	09/01/21 08:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/31/21 08:56	09/01/21 08:57	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/31/21 08:56	09/01/21 08:57	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/31/21 08:56	09/01/21 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			08/30/21 15:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.80				SU			08/24/21 12:18	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: FB-1

Lab Sample ID: 180-126277-2

Date Collected: 08/24/21 13:20

Matrix: Water

Date Received: 08/26/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/10/21 13:10	1
Fluoride	0.065	J	0.10	0.026	mg/L			09/10/21 13:10	1
Sulfate	<0.76		1.0	0.76	mg/L			09/10/21 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/31/21 08:56	09/01/21 09:00	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/31/21 08:56	09/01/21 09:00	1
Barium	<0.0016		0.010	0.0016	mg/L		08/31/21 08:56	09/01/21 09:00	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/31/21 08:56	09/01/21 09:00	1
Boron	<0.039		0.080	0.039	mg/L		08/31/21 08:56	09/01/21 09:00	1
Calcium	<0.13		0.50	0.13	mg/L		08/31/21 08:56	09/01/21 09:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/31/21 08:56	09/01/21 09:00	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/31/21 08:56	09/01/21 09:00	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/31/21 08:56	09/01/21 09:00	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/31/21 08:56	09/01/21 09:00	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/31/21 08:56	09/01/21 09:00	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/31/21 08:56	09/01/21 09:00	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/31/21 08:56	09/01/21 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/30/21 15:16	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWA-6

Lab Sample ID: 180-126277-3

Date Collected: 08/24/21 13:40

Matrix: Water

Date Received: 08/26/21 10:00

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	0.71	mg/L			09/10/21 13:42	1
Fluoride	0.16		0.10	0.026	mg/L			09/10/21 13:42	1
Sulfate	8.9		1.0	0.76	mg/L			09/10/21 13:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/31/21 08:56	09/01/21 09:03	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/31/21 08:56	09/01/21 09:03	1
Barium	0.0074	J	0.010	0.0016	mg/L		08/31/21 08:56	09/01/21 09:03	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/31/21 08:56	09/01/21 09:03	1
Boron	<0.039		0.080	0.039	mg/L		08/31/21 08:56	09/01/21 09:03	1
Calcium	26		0.50	0.13	mg/L		08/31/21 08:56	09/01/21 09:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/31/21 08:56	09/01/21 09:03	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/31/21 08:56	09/01/21 09:03	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/31/21 08:56	09/01/21 09:03	1
Lithium	0.0041	J	0.0050	0.0034	mg/L		08/31/21 08:56	09/01/21 09:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/31/21 08:56	09/01/21 09:03	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/31/21 08:56	09/01/21 09:03	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/31/21 08:56	09/01/21 09:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			08/30/21 15:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.88				SU			08/24/21 13:40	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-126277-4

Date Collected: 08/24/21 15:10

Matrix: Water

Date Received: 08/26/21 10:00

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	0.71	mg/L			09/10/21 13:26	1
Fluoride	0.054	J	0.10	0.026	mg/L			09/10/21 13:26	1
Sulfate	<0.76		1.0	0.76	mg/L			09/10/21 13:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/31/21 08:56	09/01/21 09:11	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/31/21 08:56	09/01/21 09:11	1
Barium	0.012		0.010	0.0016	mg/L		08/31/21 08:56	09/01/21 09:11	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/31/21 08:56	09/01/21 09:11	1
Boron	<0.039		0.080	0.039	mg/L		08/31/21 08:56	09/01/21 09:11	1
Calcium	1.7		0.50	0.13	mg/L		08/31/21 08:56	09/01/21 09:11	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/31/21 08:56	09/01/21 09:11	1
Cobalt	0.00017	J	0.0025	0.00013	mg/L		08/31/21 08:56	09/01/21 09:11	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/31/21 08:56	09/01/21 09:11	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/31/21 08:56	09/01/21 09:11	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/31/21 08:56	09/01/21 09:11	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/31/21 08:56	09/01/21 09:11	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/31/21 08:56	09/01/21 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	24		10	10	mg/L			08/30/21 15:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.53				SU			08/24/21 15:10	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: Dup-1

Lab Sample ID: 180-126277-5

Date Collected: 08/24/21 00:00

Matrix: Water

Date Received: 08/26/21 10:00

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	0.71	mg/L			09/19/21 19:40	1
Fluoride	<0.026		0.10	0.026	mg/L			09/19/21 19:40	1
Sulfate	<0.76		1.0	0.76	mg/L			09/19/21 19:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/31/21 08:56	09/01/21 09:14	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/31/21 08:56	09/01/21 09:14	1
Barium	0.012		0.010	0.0016	mg/L		08/31/21 08:56	09/01/21 09:14	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/31/21 08:56	09/01/21 09:14	1
Boron	<0.039		0.080	0.039	mg/L		08/31/21 08:56	09/01/21 09:14	1
Calcium	1.4		0.50	0.13	mg/L		08/31/21 08:56	09/01/21 09:14	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/31/21 08:56	09/01/21 09:14	1
Cobalt	0.00013 J		0.0025	0.00013	mg/L		08/31/21 08:56	09/01/21 09:14	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/31/21 08:56	09/01/21 09:14	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/31/21 08:56	09/01/21 09:14	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/31/21 08:56	09/01/21 09:14	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/31/21 08:56	09/01/21 09:14	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/31/21 08:56	09/01/21 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	22		10	10	mg/L			08/31/21 13:45	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWA-2

Lab Sample ID: 180-126278-1

Date Collected: 08/23/21 15:35

Matrix: Water

Date Received: 08/26/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.3	F1	1.0	0.71	mg/L			09/11/21 16:57	1
Fluoride	0.097	J	0.10	0.026	mg/L			09/07/21 22:59	1
Sulfate	1.3		1.0	0.76	mg/L			09/07/21 22:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/31/21 08:56	09/01/21 09:17	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/31/21 08:56	09/01/21 09:17	1
Barium	0.023		0.010	0.0016	mg/L		08/31/21 08:56	09/01/21 09:17	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/31/21 08:56	09/01/21 09:17	1
Boron	<0.039		0.080	0.039	mg/L		08/31/21 08:56	09/01/21 09:17	1
Calcium	13		0.50	0.13	mg/L		08/31/21 08:56	09/01/21 09:17	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/31/21 08:56	09/01/21 09:17	1
Cobalt	0.00049	J	0.0025	0.00013	mg/L		08/31/21 08:56	09/01/21 09:17	1
Lead	0.00023	J	0.0010	0.00013	mg/L		08/31/21 08:56	09/01/21 09:17	1
Lithium	0.0066		0.0050	0.0034	mg/L		08/31/21 08:56	09/01/21 09:17	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/31/21 08:56	09/01/21 09:17	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/31/21 08:56	09/01/21 09:17	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/31/21 08:56	09/01/21 09:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			08/30/21 17:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.18				SU			08/23/21 15:35	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: EB-1

Lab Sample ID: 180-126278-2

Date Collected: 08/24/21 11:00

Matrix: Water

Date Received: 08/26/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/11/21 17:46	1
Fluoride	<0.026		0.10	0.026	mg/L			09/07/21 21:30	1
Sulfate	<0.76		1.0	0.76	mg/L			09/07/21 21:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/31/21 08:56	09/01/21 09:20	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/31/21 08:56	09/01/21 09:20	1
Barium	<0.0016		0.010	0.0016	mg/L		08/31/21 08:56	09/01/21 09:20	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/31/21 08:56	09/01/21 09:20	1
Boron	<0.039		0.080	0.039	mg/L		08/31/21 08:56	09/01/21 09:20	1
Calcium	<0.13		0.50	0.13	mg/L		08/31/21 08:56	09/01/21 09:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/31/21 08:56	09/01/21 09:20	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/31/21 08:56	09/01/21 09:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/31/21 08:56	09/01/21 09:20	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/31/21 08:56	09/01/21 09:20	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/31/21 08:56	09/01/21 09:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/31/21 08:56	09/01/21 09:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/31/21 08:56	09/01/21 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			08/30/21 15:16	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-126278-3

Date Collected: 08/24/21 11:45

Matrix: Water

Date Received: 08/26/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		1.0	0.71	mg/L			09/11/21 18:03	1
Fluoride	0.062	J	0.10	0.026	mg/L			09/07/21 21:12	1
Sulfate	<0.76		1.0	0.76	mg/L			09/07/21 21:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/31/21 08:56	09/01/21 09:23	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/31/21 08:56	09/01/21 09:23	1
Barium	0.049		0.010	0.0016	mg/L		08/31/21 08:56	09/01/21 09:23	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/31/21 08:56	09/01/21 09:23	1
Boron	<0.039		0.080	0.039	mg/L		08/31/21 08:56	09/01/21 09:23	1
Calcium	1.2		0.50	0.13	mg/L		08/31/21 08:56	09/01/21 09:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/31/21 08:56	09/01/21 09:23	1
Cobalt	0.0016	J	0.0025	0.00013	mg/L		08/31/21 08:56	09/01/21 09:23	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/31/21 08:56	09/01/21 09:23	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/31/21 08:56	09/01/21 09:23	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/31/21 08:56	09/01/21 09:23	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/31/21 08:56	09/01/21 09:23	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/31/21 08:56	09/01/21 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		10	10	mg/L			08/30/21 15:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.21				SU			08/24/21 11:45	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWA-4

Lab Sample ID: 180-126278-4

Date Collected: 08/24/21 14:10

Matrix: Water

Date Received: 08/26/21 10:00

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	0.71	mg/L			09/11/21 18:19	1
Fluoride	0.17		0.10	0.026	mg/L			09/07/21 23:53	1
Sulfate	7.9		1.0	0.76	mg/L			09/07/21 23:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/31/21 08:56	09/01/21 09:26	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/31/21 08:56	09/01/21 09:26	1
Barium	0.0055	J	0.010	0.0016	mg/L		08/31/21 08:56	09/01/21 09:26	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/31/21 08:56	09/01/21 09:26	1
Boron	<0.039		0.080	0.039	mg/L		08/31/21 08:56	09/01/21 09:26	1
Calcium	15		0.50	0.13	mg/L		08/31/21 08:56	09/01/21 09:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/31/21 08:56	09/01/21 09:26	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/31/21 08:56	09/01/21 09:26	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/31/21 08:56	09/01/21 09:26	1
Lithium	0.0036	J	0.0050	0.0034	mg/L		08/31/21 08:56	09/01/21 09:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/31/21 08:56	09/01/21 09:26	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/31/21 08:56	09/01/21 09:26	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/31/21 08:56	09/01/21 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			08/31/21 13:45	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.22				SU			08/24/21 14:10	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-126364-1

Date Collected: 08/25/21 11:25

Matrix: Water

Date Received: 08/28/21 09:15

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	0.71	mg/L			09/11/21 03:39	1
Fluoride	0.13		0.10	0.026	mg/L			09/11/21 03:39	1
Sulfate	8.2		1.0	0.76	mg/L			09/11/21 03:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 16:11	09/03/21 10:35	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 16:11	09/03/21 10:35	1
Barium	0.015		0.010	0.0016	mg/L		09/01/21 16:11	09/03/21 10:35	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 16:11	09/03/21 10:35	1
Boron	0.10		0.080	0.039	mg/L		09/01/21 16:11	09/03/21 10:35	1
Calcium	16		0.50	0.13	mg/L		09/01/21 16:11	09/03/21 10:35	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 16:11	09/03/21 10:35	1
Cobalt	0.00084	J	0.0025	0.00013	mg/L		09/01/21 16:11	09/03/21 10:35	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 16:11	09/03/21 10:35	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/01/21 16:11	09/03/21 10:35	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 16:11	09/03/21 10:35	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 16:11	09/03/21 10:35	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 16:11	09/03/21 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	92		10	10	mg/L			09/01/21 16:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.74				SU			08/25/21 11:25	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-13

Lab Sample ID: 180-126364-2

Date Collected: 08/25/21 12:45

Matrix: Water

Date Received: 08/28/21 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	0.71	mg/L			09/11/21 04:28	1
Fluoride	0.20		0.10	0.026	mg/L			09/11/21 04:28	1
Sulfate	1.8		1.0	0.76	mg/L			09/11/21 04:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 16:11	09/03/21 10:38	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 16:11	09/03/21 10:38	1
Barium	0.046		0.010	0.0016	mg/L		09/01/21 16:11	09/03/21 10:38	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 16:11	09/03/21 10:38	1
Boron	0.063	J	0.080	0.039	mg/L		09/01/21 16:11	09/03/21 10:38	1
Calcium	4.0		0.50	0.13	mg/L		09/01/21 16:11	09/03/21 10:38	1
Chromium	0.0017	J	0.0020	0.0015	mg/L		09/01/21 16:11	09/03/21 10:38	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/01/21 16:11	09/03/21 10:38	1
Lead	0.00025	J	0.0010	0.00013	mg/L		09/01/21 16:11	09/03/21 10:38	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/01/21 16:11	09/03/21 10:38	1
Molybdenum	0.00092	J	0.015	0.00061	mg/L		09/01/21 16:11	09/03/21 10:38	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 16:11	09/03/21 10:38	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 16:11	09/03/21 10:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	53		10	10	mg/L			09/01/21 16:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.27				SU			08/25/21 12:45	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-126364-3

Date Collected: 08/25/21 13:30

Matrix: Water

Date Received: 08/28/21 09:15

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	0.71	mg/L			09/11/21 04:45	1
Fluoride	0.071	J	0.10	0.026	mg/L			09/11/21 04:45	1
Sulfate	<0.76		1.0	0.76	mg/L			09/11/21 04:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 16:11	09/03/21 10:42	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 16:11	09/03/21 10:42	1
Barium	0.030		0.010	0.0016	mg/L		09/01/21 16:11	09/03/21 10:42	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 16:11	09/03/21 10:42	1
Boron	0.043	J	0.080	0.039	mg/L		09/01/21 16:11	09/03/21 10:42	1
Calcium	0.70		0.50	0.13	mg/L		09/01/21 16:11	09/03/21 10:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 16:11	09/03/21 10:42	1
Cobalt	0.0029		0.0025	0.00013	mg/L		09/01/21 16:11	09/03/21 10:42	1
Lead	0.00041	J	0.0010	0.00013	mg/L		09/01/21 16:11	09/03/21 10:42	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/01/21 16:11	09/03/21 10:42	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 16:11	09/03/21 10:42	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 16:11	09/03/21 10:42	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 16:11	09/03/21 10:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	30		10	10	mg/L			09/01/21 16:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.39				SU			08/25/21 13:30	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: EB-2

Lab Sample ID: 180-126364-4

Date Collected: 08/25/21 15:05

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/11/21 05:01	1
Fluoride	0.037	J	0.10	0.026	mg/L			09/11/21 05:01	1
Sulfate	<0.76		1.0	0.76	mg/L			09/11/21 05:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 16:11	09/03/21 11:00	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 16:11	09/03/21 11:00	1
Barium	<0.0016		0.010	0.0016	mg/L		09/01/21 16:11	09/03/21 11:00	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 16:11	09/03/21 11:00	1
Boron	<0.039		0.080	0.039	mg/L		09/01/21 16:11	09/03/21 11:00	1
Calcium	<0.13		0.50	0.13	mg/L		09/01/21 16:11	09/03/21 11:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 16:11	09/03/21 11:00	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/01/21 16:11	09/03/21 11:00	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 16:11	09/03/21 11:00	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/01/21 16:11	09/03/21 11:00	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 16:11	09/03/21 11:00	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 16:11	09/03/21 11:00	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 16:11	09/03/21 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/01/21 16:13	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-17

Lab Sample ID: 180-126364-5

Date Collected: 08/25/21 14:55

Matrix: Water

Date Received: 08/28/21 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	0.71	mg/L			09/11/21 05:17	1
Fluoride	0.093	J	0.10	0.026	mg/L			09/11/21 05:17	1
Sulfate	3.3		1.0	0.76	mg/L			09/11/21 05:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 16:11	09/03/21 11:04	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 16:11	09/03/21 11:04	1
Barium	0.011		0.010	0.0016	mg/L		09/01/21 16:11	09/03/21 11:04	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 16:11	09/03/21 11:04	1
Boron	<0.039		0.080	0.039	mg/L		09/01/21 16:11	09/03/21 11:04	1
Calcium	6.0		0.50	0.13	mg/L		09/01/21 16:11	09/03/21 11:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 16:11	09/03/21 11:04	1
Cobalt	0.00042	J	0.0025	0.00013	mg/L		09/01/21 16:11	09/03/21 11:04	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 16:11	09/03/21 11:04	1
Lithium	0.0048	J	0.0050	0.0034	mg/L		09/01/21 16:11	09/03/21 11:04	1
Molybdenum	0.0022	J	0.015	0.00061	mg/L		09/01/21 16:11	09/03/21 11:04	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 16:11	09/03/21 11:04	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 16:11	09/03/21 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	84		10	10	mg/L			09/01/21 16:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.09				SU			08/25/21 14:55	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-126364-6

Date Collected: 08/26/21 11:05

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.3		1.0	0.71	mg/L			09/11/21 05:34	1
Fluoride	0.38		0.10	0.026	mg/L			09/11/21 05:34	1
Sulfate	3.5		1.0	0.76	mg/L			09/11/21 05:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 16:11	09/03/21 11:08	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 16:11	09/03/21 11:08	1
Barium	<0.0016		0.010	0.0016	mg/L		09/01/21 16:11	09/03/21 11:08	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 16:11	09/03/21 11:08	1
Boron	<0.039		0.080	0.039	mg/L		09/01/21 16:11	09/03/21 11:08	1
Calcium	10		0.50	0.13	mg/L		09/01/21 16:11	09/03/21 11:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 16:11	09/03/21 11:08	1
Cobalt	0.00022	J	0.0025	0.00013	mg/L		09/01/21 16:11	09/03/21 11:08	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 16:11	09/03/21 11:08	1
Lithium	0.057		0.0050	0.0034	mg/L		09/01/21 16:11	09/03/21 11:08	1
Molybdenum	0.0011	J	0.015	0.00061	mg/L		09/01/21 16:11	09/03/21 11:08	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 16:11	09/03/21 11:08	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 16:11	09/03/21 11:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	94		10	10	mg/L			09/02/21 11:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.66				SU			08/26/21 11:05	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: Dup-2
Date Collected: 08/26/21 00:00
Date Received: 08/28/21 09:15

Lab Sample ID: 180-126364-7
Matrix: Water

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	0.71	mg/L			09/11/21 06:39	1
Fluoride	0.38		0.10	0.026	mg/L			09/11/21 06:39	1
Sulfate	3.3		1.0	0.76	mg/L			09/11/21 06:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 16:11	09/03/21 11:11	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 16:11	09/03/21 11:11	1
Barium	<0.0016		0.010	0.0016	mg/L		09/01/21 16:11	09/03/21 11:11	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 16:11	09/03/21 11:11	1
Boron	<0.039		0.080	0.039	mg/L		09/01/21 16:11	09/03/21 11:11	1
Calcium	10		0.50	0.13	mg/L		09/01/21 16:11	09/03/21 11:11	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 16:11	09/03/21 11:11	1
Cobalt	0.00020	J	0.0025	0.00013	mg/L		09/01/21 16:11	09/03/21 11:11	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 16:11	09/03/21 11:11	1
Lithium	0.058		0.0050	0.0034	mg/L		09/01/21 16:11	09/03/21 11:11	1
Molybdenum	0.0010	J	0.015	0.00061	mg/L		09/01/21 16:11	09/03/21 11:11	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 16:11	09/03/21 11:11	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 16:11	09/03/21 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	95		10	10	mg/L			09/02/21 11:51	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-10

Lab Sample ID: 180-126364-8

Date Collected: 08/26/21 12:35

Matrix: Water

Date Received: 08/28/21 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	0.71	mg/L			09/11/21 06:55	1
Fluoride	0.16		0.10	0.026	mg/L			09/11/21 06:55	1
Sulfate	1.8		1.0	0.76	mg/L			09/11/21 06:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:08	09/03/21 13:16	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 17:08	09/03/21 13:16	1
Barium	0.032		0.010	0.0016	mg/L		09/01/21 17:08	09/03/21 13:16	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 17:08	09/03/21 13:16	1
Boron	<0.039		0.080	0.039	mg/L		09/01/21 17:08	09/03/21 13:16	1
Calcium	7.6		0.50	0.13	mg/L		09/01/21 17:08	09/03/21 13:16	1
Chromium	0.0024		0.0020	0.0015	mg/L		09/01/21 17:08	09/03/21 13:16	1
Cobalt	0.00044	J	0.0025	0.00013	mg/L		09/01/21 17:08	09/03/21 13:16	1
Lead	0.00026	J	0.0010	0.00013	mg/L		09/01/21 17:08	09/03/21 13:16	1
Lithium	0.0044	J	0.0050	0.0034	mg/L		09/01/21 17:08	09/03/21 13:16	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:08	09/03/21 13:16	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 17:08	09/03/21 13:16	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:08	09/03/21 13:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	60		10	10	mg/L			09/02/21 11:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.31				SU			08/26/21 12:35	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-24

Lab Sample ID: 180-126364-9

Date Collected: 08/26/21 13:55

Matrix: Water

Date Received: 08/28/21 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	0.71	mg/L			09/11/21 07:12	1
Fluoride	1.2		0.10	0.026	mg/L			09/11/21 07:12	1
Sulfate	170		1.0	0.76	mg/L			09/11/21 07:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:34	09/03/21 15:19	1
Arsenic	0.0033		0.0010	0.00031	mg/L		09/01/21 17:34	09/03/21 15:19	1
Barium	0.042		0.010	0.0016	mg/L		09/01/21 17:34	09/03/21 15:19	1
Beryllium	0.014		0.0025	0.00018	mg/L		09/01/21 17:34	09/03/21 15:19	1
Boron	2.1		0.080	0.039	mg/L		09/01/21 17:34	09/04/21 10:39	1
Cadmium	0.00061	J	0.0025	0.00022	mg/L		09/01/21 17:34	09/03/21 15:19	1
Calcium	69		0.50	0.13	mg/L		09/01/21 17:34	09/03/21 15:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:34	09/03/21 15:19	1
Cobalt	0.13		0.0025	0.00013	mg/L		09/01/21 17:34	09/03/21 15:19	1
Lead	0.0012		0.0010	0.00013	mg/L		09/01/21 17:34	09/03/21 15:19	1
Lithium	0.0076		0.0050	0.0034	mg/L		09/01/21 17:34	09/03/21 15:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:34	09/03/21 15:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 17:34	09/03/21 15:19	1
Thallium	0.00072	J	0.0010	0.00015	mg/L		09/01/21 17:34	09/03/21 15:19	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00026		0.00020	0.00013	mg/L		09/10/21 09:50	09/10/21 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	420		10	10	mg/L			09/02/21 11:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.33				SU			08/26/21 13:55	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: Dup-3

Lab Sample ID: 180-126364-10

Date Collected: 08/26/21 00:00

Matrix: Water

Date Received: 08/28/21 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	0.71	mg/L			09/11/21 07:44	1
Fluoride	1.2		0.10	0.026	mg/L			09/11/21 07:44	1
Sulfate	170		1.0	0.76	mg/L			09/11/21 07:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:34	09/03/21 15:22	1
Arsenic	0.0035		0.0010	0.00031	mg/L		09/01/21 17:34	09/03/21 15:22	1
Barium	0.043		0.010	0.0016	mg/L		09/01/21 17:34	09/03/21 15:22	1
Beryllium	0.014		0.0025	0.00018	mg/L		09/01/21 17:34	09/03/21 15:22	1
Boron	2.2		0.080	0.039	mg/L		09/01/21 17:34	09/04/21 10:42	1
Cadmium	0.00056	J	0.0025	0.00022	mg/L		09/01/21 17:34	09/03/21 15:22	1
Calcium	71		0.50	0.13	mg/L		09/01/21 17:34	09/03/21 15:22	1
Chromium	0.0021		0.0020	0.0015	mg/L		09/01/21 17:34	09/03/21 15:22	1
Cobalt	0.14		0.0025	0.00013	mg/L		09/01/21 17:34	09/03/21 15:22	1
Lead	0.0012		0.0010	0.00013	mg/L		09/01/21 17:34	09/03/21 15:22	1
Lithium	0.0079		0.0050	0.0034	mg/L		09/01/21 17:34	09/03/21 15:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:34	09/03/21 15:22	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 17:34	09/03/21 15:22	1
Thallium	0.00074	J	0.0010	0.00015	mg/L		09/01/21 17:34	09/03/21 15:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00026		0.00020	0.00013	mg/L		09/10/21 09:50	09/10/21 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	420		10	10	mg/L			09/02/21 11:51	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-25

Lab Sample ID: 180-126364-11

Date Collected: 08/26/21 15:52

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79	F1	1.0	0.71	mg/L			09/11/21 08:17	1
Fluoride	0.047	J	0.10	0.026	mg/L			09/11/21 08:17	1
Sulfate	13		1.0	0.76	mg/L			09/11/21 08:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:34	09/03/21 15:25	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 17:34	09/03/21 15:25	1
Barium	0.41		0.010	0.0016	mg/L		09/01/21 17:34	09/03/21 15:25	1
Beryllium	0.00028	J	0.0025	0.00018	mg/L		09/01/21 17:34	09/03/21 15:25	1
Boron	0.70		0.080	0.039	mg/L		09/01/21 17:34	09/04/21 10:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/01/21 17:34	09/03/21 15:25	1
Calcium	16		0.50	0.13	mg/L		09/01/21 17:34	09/03/21 15:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:34	09/03/21 15:25	1
Cobalt	0.0050		0.0025	0.00013	mg/L		09/01/21 17:34	09/03/21 15:25	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 17:34	09/03/21 15:25	1
Lithium	0.0044	J	0.0050	0.0034	mg/L		09/01/21 17:34	09/03/21 15:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:34	09/03/21 15:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 17:34	09/03/21 15:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:34	09/03/21 15:25	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0019		0.00020	0.00013	mg/L		09/10/21 09:50	09/10/21 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		10	10	mg/L			09/02/21 11:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.30				SU			08/26/21 15:52	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-126364-12

Date Collected: 08/26/21 12:41

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		1.0	0.71	mg/L			09/11/21 11:31	1
Fluoride	0.21		0.10	0.026	mg/L			09/11/21 11:31	1
Sulfate	220		5.0	3.8	mg/L			09/11/21 11:47	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:34	09/03/21 15:27	1
Arsenic	0.0013		0.0010	0.00031	mg/L		09/01/21 17:34	09/03/21 15:27	1
Barium	<0.0016		0.010	0.0016	mg/L		09/01/21 17:34	09/03/21 15:27	1
Beryllium	0.0020	J	0.0025	0.00018	mg/L		09/01/21 17:34	09/03/21 15:27	1
Boron	2.4		0.080	0.039	mg/L		09/01/21 17:34	09/04/21 10:47	1
Calcium	85		0.50	0.13	mg/L		09/01/21 17:34	09/03/21 15:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:34	09/03/21 15:27	1
Cobalt	0.00050	J	0.0025	0.00013	mg/L		09/01/21 17:34	09/03/21 15:27	1
Lead	0.00014	J	0.0010	0.00013	mg/L		09/01/21 17:34	09/03/21 15:27	1
Lithium	0.013		0.0050	0.0034	mg/L		09/01/21 17:34	09/03/21 15:27	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:34	09/03/21 15:27	1
Selenium	0.0037	J	0.0050	0.0015	mg/L		09/01/21 17:34	09/03/21 15:27	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:34	09/03/21 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	550		10	10	mg/L			09/02/21 11:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.36				SU			08/26/21 12:41	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-15

Lab Sample ID: 180-126364-13

Date Collected: 08/26/21 16:14

Matrix: Water

Date Received: 08/28/21 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	0.71	mg/L			09/11/21 09:06	1
Fluoride	0.77		0.10	0.026	mg/L			09/11/21 09:06	1
Sulfate	16		1.0	0.76	mg/L			09/11/21 09:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:34	09/03/21 15:39	1
Arsenic	0.0012		0.0010	0.00031	mg/L		09/01/21 17:34	09/03/21 15:39	1
Barium	0.029		0.010	0.0016	mg/L		09/01/21 17:34	09/03/21 15:39	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 17:34	09/03/21 15:39	1
Boron	<0.039		0.080	0.039	mg/L		09/01/21 17:34	09/04/21 10:56	1
Calcium	31		0.50	0.13	mg/L		09/01/21 17:34	09/03/21 15:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:34	09/03/21 15:39	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/01/21 17:34	09/03/21 15:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 17:34	09/03/21 15:39	1
Lithium	0.0059		0.0050	0.0034	mg/L		09/01/21 17:34	09/03/21 15:39	1
Molybdenum	0.0029	J	0.015	0.00061	mg/L		09/01/21 17:34	09/03/21 15:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 17:34	09/03/21 15:39	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:34	09/03/21 15:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			09/02/21 11:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.58				SU			08/26/21 16:14	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-20

Lab Sample ID: 180-126364-14

Date Collected: 08/26/21 11:32

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		1.0	0.71	mg/L			09/11/21 12:02	1
Fluoride	2.0		0.10	0.026	mg/L			09/11/21 12:02	1
Sulfate	290		5.0	3.8	mg/L			09/11/21 12:18	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:34	09/03/21 15:42	1
Arsenic	0.00031	J	0.0010	0.00031	mg/L		09/01/21 17:34	09/03/21 15:42	1
Barium	<0.0016		0.010	0.0016	mg/L		09/01/21 17:34	09/03/21 15:42	1
Beryllium	0.0081		0.0025	0.00018	mg/L		09/01/21 17:34	09/03/21 15:42	1
Boron	2.1		0.080	0.039	mg/L		09/01/21 17:34	09/04/21 10:59	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/01/21 17:34	09/03/21 15:42	1
Calcium	120		0.50	0.13	mg/L		09/01/21 17:34	09/03/21 15:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:34	09/03/21 15:42	1
Cobalt	0.00046	J	0.0025	0.00013	mg/L		09/01/21 17:34	09/03/21 15:42	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 17:34	09/03/21 15:42	1
Lithium	0.11		0.0050	0.0034	mg/L		09/01/21 17:34	09/03/21 15:42	1
Molybdenum	0.00079	J	0.015	0.00061	mg/L		09/01/21 17:34	09/03/21 15:42	1
Selenium	0.0016	J	0.0050	0.0015	mg/L		09/01/21 17:34	09/03/21 15:42	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:34	09/03/21 15:42	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00033		0.00020	0.00013	mg/L		09/10/21 09:50	09/10/21 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	720		10	10	mg/L			09/02/21 11:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.37				SU			08/26/21 11:32	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-23

Lab Sample ID: 180-126364-15

Date Collected: 08/26/21 14:55

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.3		1.0	0.71	mg/L			09/11/21 10:11	1
Fluoride	0.081	J	0.10	0.026	mg/L			09/11/21 10:11	1
Sulfate	7.5		1.0	0.76	mg/L			09/11/21 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:34	09/03/21 15:45	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 17:34	09/03/21 15:45	1
Barium	0.0078	J	0.010	0.0016	mg/L		09/01/21 17:34	09/03/21 15:45	1
Beryllium	0.00089	J	0.0025	0.00018	mg/L		09/01/21 17:34	09/03/21 15:45	1
Boron	0.052	J	0.080	0.039	mg/L		09/01/21 17:34	09/04/21 11:02	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/01/21 17:34	09/03/21 15:45	1
Calcium	4.6		0.50	0.13	mg/L		09/01/21 17:34	09/03/21 15:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:34	09/03/21 15:45	1
Cobalt	0.00017	J	0.0025	0.00013	mg/L		09/01/21 17:34	09/03/21 15:45	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 17:34	09/03/21 15:45	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/01/21 17:34	09/03/21 15:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:34	09/03/21 15:45	1
Selenium	0.0020	J	0.0050	0.0015	mg/L		09/01/21 17:34	09/03/21 15:45	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:34	09/03/21 15:45	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022		0.00020	0.00013	mg/L		09/10/21 09:50	09/10/21 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	88		10	10	mg/L			09/02/21 11:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.80				SU			08/26/21 14:55	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: FB-3

Lab Sample ID: 180-126364-16

Date Collected: 08/26/21 14:53

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/11/21 09:55	1
Fluoride	0.042	J	0.10	0.026	mg/L			09/11/21 09:55	1
Sulfate	<0.76		1.0	0.76	mg/L			09/11/21 09:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:34	09/03/21 15:47	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 17:34	09/03/21 15:47	1
Barium	<0.0016		0.010	0.0016	mg/L		09/01/21 17:34	09/03/21 15:47	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 17:34	09/03/21 15:47	1
Boron	<0.039		0.080	0.039	mg/L		09/01/21 17:34	09/04/21 11:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/01/21 17:34	09/03/21 15:47	1
Calcium	<0.13		0.50	0.13	mg/L		09/01/21 17:34	09/03/21 15:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:34	09/03/21 15:47	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/01/21 17:34	09/03/21 15:47	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 17:34	09/03/21 15:47	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/01/21 17:34	09/03/21 15:47	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:34	09/03/21 15:47	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 17:34	09/03/21 15:47	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:34	09/03/21 15:47	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020		0.00020	0.00013	mg/L		09/10/21 09:50	09/10/21 15:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/02/21 11:51	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-126367-1

Date Collected: 08/25/21 10:50

Matrix: Water

Date Received: 08/28/21 09:15

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	0.71	mg/L			09/11/21 12:09	1
Fluoride	0.077	J	0.10	0.026	mg/L			09/11/21 12:09	1
Sulfate	0.79	J	1.0	0.76	mg/L			09/11/21 12:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:08	09/03/21 13:36	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 17:08	09/03/21 13:36	1
Barium	0.014		0.010	0.0016	mg/L		09/01/21 17:08	09/03/21 13:36	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 17:08	09/03/21 13:36	1
Boron	<0.039		0.080	0.039	mg/L		09/01/21 17:08	09/03/21 13:36	1
Calcium	1.7		0.50	0.13	mg/L		09/01/21 17:08	09/03/21 13:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:08	09/03/21 13:36	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/01/21 17:08	09/03/21 13:36	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 17:08	09/03/21 13:36	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/01/21 17:08	09/03/21 13:36	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:08	09/03/21 13:36	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 17:08	09/03/21 13:36	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:08	09/03/21 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	21		10	10	mg/L			09/01/21 16:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.52				SU			08/25/21 10:50	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-11

Lab Sample ID: 180-126367-2

Date Collected: 08/25/21 12:00

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.5		1.0	0.71	mg/L			09/11/21 11:53	1
Fluoride	0.056	J	0.10	0.026	mg/L			09/11/21 11:53	1
Sulfate	1.1		1.0	0.76	mg/L			09/11/21 11:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:08	09/03/21 13:39	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 17:08	09/03/21 13:39	1
Barium	0.040		0.010	0.0016	mg/L		09/01/21 17:08	09/03/21 13:39	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 17:08	09/03/21 13:39	1
Boron	<0.039		0.080	0.039	mg/L		09/01/21 17:08	09/03/21 13:39	1
Calcium	1.5		0.50	0.13	mg/L		09/01/21 17:08	09/03/21 13:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:08	09/03/21 13:39	1
Cobalt	0.00045	J	0.0025	0.00013	mg/L		09/01/21 17:08	09/03/21 13:39	1
Lead	0.00023	J	0.0010	0.00013	mg/L		09/01/21 17:08	09/03/21 13:39	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/01/21 17:08	09/03/21 13:39	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:08	09/03/21 13:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 17:08	09/03/21 13:39	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:08	09/03/21 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		10	10	mg/L			09/01/21 16:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.66				SU			08/25/21 12:00	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-126367-3

Date Collected: 08/25/21 13:30

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7		1.0	0.71	mg/L			09/11/21 11:36	1
Fluoride	0.14		0.10	0.026	mg/L			09/11/21 11:36	1
Sulfate	13		1.0	0.76	mg/L			09/11/21 11:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:08	09/03/21 13:42	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 17:08	09/03/21 13:42	1
Barium	0.016		0.010	0.0016	mg/L		09/01/21 17:08	09/03/21 13:42	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 17:08	09/03/21 13:42	1
Boron	<0.039		0.080	0.039	mg/L		09/01/21 17:08	09/03/21 13:42	1
Calcium	14		0.50	0.13	mg/L		09/01/21 17:08	09/03/21 13:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:08	09/03/21 13:42	1
Cobalt	0.00050	J	0.0025	0.00013	mg/L		09/01/21 17:08	09/03/21 13:42	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 17:08	09/03/21 13:42	1
Lithium	0.0061		0.0050	0.0034	mg/L		09/01/21 17:08	09/03/21 13:42	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:08	09/03/21 13:42	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 17:08	09/03/21 13:42	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:08	09/03/21 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			09/01/21 16:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.69				SU			08/25/21 13:30	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: FB-2

Lab Sample ID: 180-126367-4

Date Collected: 08/25/21 14:35

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/11/21 11:20	1
Fluoride	0.053	J	0.10	0.026	mg/L			09/11/21 11:20	1
Sulfate	<0.76		1.0	0.76	mg/L			09/11/21 11:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:08	09/03/21 13:45	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 17:08	09/03/21 13:45	1
Barium	<0.0016		0.010	0.0016	mg/L		09/01/21 17:08	09/03/21 13:45	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 17:08	09/03/21 13:45	1
Boron	<0.039		0.080	0.039	mg/L		09/01/21 17:08	09/03/21 13:45	1
Calcium	<0.13		0.50	0.13	mg/L		09/01/21 17:08	09/03/21 13:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:08	09/03/21 13:45	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/01/21 17:08	09/03/21 13:45	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 17:08	09/03/21 13:45	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/01/21 17:08	09/03/21 13:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:08	09/03/21 13:45	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 17:08	09/03/21 13:45	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:08	09/03/21 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/01/21 16:13	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-16

Lab Sample ID: 180-126367-5

Date Collected: 08/25/21 14:50

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45		1.0	0.71	mg/L			09/11/21 09:36	1
Fluoride	0.099	J	0.10	0.026	mg/L			09/11/21 09:36	1
Sulfate	63		1.0	0.76	mg/L			09/11/21 09:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:08	09/03/21 13:48	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 17:08	09/03/21 13:48	1
Barium	0.035		0.010	0.0016	mg/L		09/01/21 17:08	09/03/21 13:48	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 17:08	09/03/21 13:48	1
Boron	0.89		0.080	0.039	mg/L		09/01/21 17:08	09/03/21 13:48	1
Calcium	27		0.50	0.13	mg/L		09/01/21 17:08	09/03/21 13:48	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:08	09/03/21 13:48	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/01/21 17:08	09/03/21 13:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 17:08	09/03/21 13:48	1
Lithium	0.0046	J	0.0050	0.0034	mg/L		09/01/21 17:08	09/03/21 13:48	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:08	09/03/21 13:48	1
Selenium	0.0019	J	0.0050	0.0015	mg/L		09/01/21 17:08	09/03/21 13:48	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:08	09/03/21 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		10	10	mg/L			09/01/21 16:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.25				SU			08/25/21 14:50	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: EB-3

Lab Sample ID: 180-126367-6

Date Collected: 08/26/21 10:10

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/11/21 07:41	1
Fluoride	0.058	J	0.10	0.026	mg/L			09/11/21 07:41	1
Sulfate	<0.76		1.0	0.76	mg/L			09/11/21 07:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:08	09/03/21 13:51	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 17:08	09/03/21 13:51	1
Barium	<0.0016		0.010	0.0016	mg/L		09/01/21 17:08	09/03/21 13:51	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 17:08	09/03/21 13:51	1
Boron	<0.039		0.080	0.039	mg/L		09/01/21 17:08	09/03/21 13:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/01/21 17:08	09/03/21 13:51	1
Calcium	<0.13		0.50	0.13	mg/L		09/01/21 17:08	09/03/21 13:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:08	09/03/21 13:51	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/01/21 17:08	09/03/21 13:51	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 17:08	09/03/21 13:51	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/01/21 17:08	09/03/21 13:51	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:08	09/03/21 13:51	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 17:08	09/03/21 13:51	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:08	09/03/21 13:51	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00019	J	0.00020	0.00013	mg/L		09/10/21 09:50	09/10/21 15:35	1
Mercury	<0.00013	H	0.00020	0.00013	mg/L		09/24/21 06:57	09/24/21 16:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/02/21 11:51	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-21

Lab Sample ID: 180-126367-7

Date Collected: 08/26/21 11:30

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47		1.0	0.71	mg/L			09/11/21 08:14	1
Fluoride	2.0		0.10	0.026	mg/L			09/11/21 08:14	1
Sulfate	190		5.0	3.8	mg/L			09/11/21 08:30	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00076	J	0.0020	0.00038	mg/L		09/01/21 17:08	09/03/21 13:53	1
Arsenic	0.00057	J	0.0010	0.00031	mg/L		09/01/21 17:08	09/03/21 13:53	1
Barium	0.0086	J	0.010	0.0016	mg/L		09/01/21 17:08	09/03/21 13:53	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 17:08	09/03/21 13:53	1
Boron	0.087		0.080	0.039	mg/L		09/01/21 17:08	09/03/21 13:53	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/01/21 17:08	09/03/21 13:53	1
Calcium	51		0.50	0.13	mg/L		09/01/21 17:08	09/03/21 13:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:08	09/03/21 13:53	1
Cobalt	0.00042	J	0.0025	0.00013	mg/L		09/01/21 17:08	09/03/21 13:53	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 17:08	09/03/21 13:53	1
Lithium	0.032		0.0050	0.0034	mg/L		09/01/21 17:08	09/03/21 13:53	1
Molybdenum	0.044		0.015	0.00061	mg/L		09/01/21 17:08	09/03/21 13:53	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 17:08	09/03/21 13:53	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:08	09/03/21 13:53	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020		0.00020	0.00013	mg/L		09/10/21 09:50	09/10/21 15:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	480		10	10	mg/L			09/02/21 11:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.88				SU			08/26/21 11:30	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-126367-8

Date Collected: 08/26/21 13:00

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1	F2 F1	1.0	0.71	mg/L			09/11/21 08:46	1
Fluoride	1.0	F1	0.10	0.026	mg/L			09/11/21 08:46	1
Sulfate	52	F2 F1	1.0	0.76	mg/L			09/11/21 08:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:08	09/03/21 13:56	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 17:08	09/03/21 13:56	1
Barium	<0.0016		0.010	0.0016	mg/L		09/01/21 17:08	09/03/21 13:56	1
Beryllium	0.00038	J	0.0025	0.00018	mg/L		09/01/21 17:08	09/03/21 13:56	1
Boron	0.56		0.080	0.039	mg/L		09/01/21 17:08	09/03/21 13:56	1
Calcium	9.3		0.50	0.13	mg/L		09/01/21 17:08	09/03/21 13:56	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:08	09/03/21 13:56	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/01/21 17:08	09/03/21 13:56	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 17:08	09/03/21 13:56	1
Lithium	0.030		0.0050	0.0034	mg/L		09/01/21 17:08	09/03/21 13:56	1
Molybdenum	0.0028	J	0.015	0.00061	mg/L		09/01/21 17:08	09/03/21 13:56	1
Selenium	0.0028	J	0.0050	0.0015	mg/L		09/01/21 17:08	09/03/21 13:56	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:08	09/03/21 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			09/02/21 11:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.84				SU			08/26/21 13:00	1

Client Sample Results

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

Job ID: 180-126277-1

Client Sample ID: WGWC-22

Lab Sample ID: 180-126367-9

Date Collected: 08/26/21 15:20

Matrix: Water

Date Received: 08/28/21 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		1.0	0.71	mg/L			09/11/21 07:57	1
Fluoride	0.51		0.10	0.026	mg/L			09/11/21 07:57	1
Sulfate	100		1.0	0.76	mg/L			09/11/21 07:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:08	09/03/21 13:59	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 17:08	09/03/21 13:59	1
Barium	0.031		0.010	0.0016	mg/L		09/01/21 17:08	09/03/21 13:59	1
Beryllium	0.00053	J	0.0025	0.00018	mg/L		09/01/21 17:08	09/03/21 13:59	1
Boron	0.36		0.080	0.039	mg/L		09/01/21 17:08	09/03/21 13:59	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/01/21 17:08	09/03/21 13:59	1
Calcium	24		0.50	0.13	mg/L		09/01/21 17:08	09/03/21 13:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:08	09/03/21 13:59	1
Cobalt	0.00038	J	0.0025	0.00013	mg/L		09/01/21 17:08	09/03/21 13:59	1
Lead	0.00022	J	0.0010	0.00013	mg/L		09/01/21 17:08	09/03/21 13:59	1
Lithium	0.011		0.0050	0.0034	mg/L		09/01/21 17:08	09/03/21 13:59	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:08	09/03/21 13:59	1
Selenium	0.0049	J	0.0050	0.0015	mg/L		09/01/21 17:08	09/03/21 13:59	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:08	09/03/21 13:59	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J	0.00020	0.00013	mg/L		09/10/21 09:50	09/10/21 15:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	240		10	10	mg/L			09/02/21 11:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.40				SU			08/26/21 15:20	1

QC Sample Results

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

Job ID: 180-126277-1

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

Lab Sample ID: MB 180-370384/6
Matrix: Water
Analysis Batch: 370384

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			09/07/21 13:53	1
Sulfate	<0.76		1.0	0.76	mg/L			09/07/21 13:53	1

Lab Sample ID: LCS 180-370384/5
Matrix: Water
Analysis Batch: 370384

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	2.41		mg/L		96	90 - 110
Sulfate	50.0	47.0		mg/L		94	90 - 110

Lab Sample ID: 180-126278-1 MS
Matrix: Water
Analysis Batch: 370384

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	0.097	J	2.50	2.70		mg/L		104	90 - 110
Sulfate	1.3		50.0	49.1		mg/L		96	90 - 110

Lab Sample ID: 180-126278-1 MSD
Matrix: Water
Analysis Batch: 370384

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	Limit
Fluoride	0.097	J	2.50	2.73		mg/L		105	90 - 110	1	20
Sulfate	1.3		50.0	49.9		mg/L		97	90 - 110	2	20

Lab Sample ID: MB 180-370761/88
Matrix: Water
Analysis Batch: 370761

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/10/21 09:20	1
Fluoride	<0.026		0.10	0.026	mg/L			09/10/21 09:20	1
Sulfate	<0.76		1.0	0.76	mg/L			09/10/21 09:20	1

Lab Sample ID: LCS 180-370761/87
Matrix: Water
Analysis Batch: 370761

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	52.0		mg/L		104	90 - 110
Fluoride	2.50	2.56		mg/L		102	90 - 110
Sulfate	50.0	51.5		mg/L		103	90 - 110

QC Sample Results

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

Job ID: 180-126277-1

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

Lab Sample ID: 180-126277-1 MS
Matrix: Water
Analysis Batch: 370761

Client Sample ID: WGWA-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.1	F1	50.0	53.3		mg/L		102	90 - 110
Fluoride	0.073	J	2.50	2.60		mg/L		101	90 - 110
Sulfate	2.8	F1	50.0	53.0		mg/L		101	90 - 110

Lab Sample ID: 180-126277-1 MSD
Matrix: Water
Analysis Batch: 370761

Client Sample ID: WGWA-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.1	F1	50.0	58.0	F1	mg/L		112	90 - 110	8	20
Fluoride	0.073	J	2.50	2.83		mg/L		110	90 - 110	8	20
Sulfate	2.8	F1	50.0	58.2	F1	mg/L		111	90 - 110	9	20

Lab Sample ID: MB 180-370919/63
Matrix: Water
Analysis Batch: 370919

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/11/21 03:23	1
Fluoride	<0.026		0.10	0.026	mg/L			09/11/21 03:23	1
Sulfate	<0.76		1.0	0.76	mg/L			09/11/21 03:23	1

Lab Sample ID: LCS 180-370919/62
Matrix: Water
Analysis Batch: 370919

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	49.2		mg/L		98	90 - 110
Fluoride	2.50	2.65		mg/L		106	90 - 110
Sulfate	50.0	47.4		mg/L		95	90 - 110

Lab Sample ID: 180-126364-1 MS
Matrix: Water
Analysis Batch: 370919

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
Chloride	2.3		50.0	50.4		mg/L		96	90 - 110
Fluoride	0.13		2.50	2.58		mg/L		98	90 - 110
Sulfate	8.2		50.0	54.3		mg/L		92	90 - 110

Lab Sample ID: 180-126364-1 MSD
Matrix: Water
Analysis Batch: 370919

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
Chloride	2.3		50.0	53.5		mg/L		102	90 - 110	6	20
Fluoride	0.13		2.50	2.71		mg/L		103	90 - 110	5	20
Sulfate	8.2		50.0	58.0		mg/L		100	90 - 110	7	20

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QC Sample Results

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

Job ID: 180-126277-1

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

Lab Sample ID: 180-126364-11 MS
Matrix: Water
Analysis Batch: 370919

Client Sample ID: WGWC-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	79	F1	50.0	128		mg/L		97	90 - 110
Fluoride	0.047	J	2.50	2.56		mg/L		101	90 - 110
Sulfate	13		50.0	62.5		mg/L		100	90 - 110

Lab Sample ID: 180-126364-11 MSD
Matrix: Water
Analysis Batch: 370919

Client Sample ID: WGWC-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	79	F1	50.0	124	F1	mg/L		89	90 - 110	3	20
Fluoride	0.047	J	2.50	2.51		mg/L		99	90 - 110	2	20
Sulfate	13		50.0	60.6		mg/L		96	90 - 110	3	20

Lab Sample ID: MB 180-370999/41
Matrix: Water
Analysis Batch: 370999

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/11/21 03:52	1
Fluoride	<0.026		0.10	0.026	mg/L			09/11/21 03:52	1
Sulfate	<0.76		1.0	0.76	mg/L			09/11/21 03:52	1

Lab Sample ID: LCS 180-370999/40
Matrix: Water
Analysis Batch: 370999

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	53.2		mg/L		106	90 - 110
Fluoride	2.50	2.64		mg/L		106	90 - 110
Sulfate	50.0	53.0		mg/L		106	90 - 110

Lab Sample ID: 180-126367-8 MS
Matrix: Water
Analysis Batch: 370999

Client Sample ID: WGWC-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.1	F2 F1	50.0	48.4		mg/L		91	90 - 110
Fluoride	1.0	F1	2.50	3.13	F1	mg/L		84	90 - 110
Sulfate	52	F2 F1	50.0	90.3	F1	mg/L		76	90 - 110

Lab Sample ID: 180-126367-8 MSD
Matrix: Water
Analysis Batch: 370999

Client Sample ID: WGWC-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.1	F2 F1	50.0	59.8	F1 F2	mg/L		113	90 - 110	21	20
Fluoride	1.0	F1	2.50	3.83	F1	mg/L		112	90 - 110	20	20
Sulfate	52	F2 F1	50.0	111	F1 F2	mg/L		118	90 - 110	21	20

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QC Sample Results

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

Job ID: 180-126277-1

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

Lab Sample ID: MB 180-371083/6
Matrix: Water
Analysis Batch: 371083

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/11/21 16:24	1
Fluoride	<0.026		0.10	0.026	mg/L			09/11/21 16:24	1
Sulfate	<0.76		1.0	0.76	mg/L			09/11/21 16:24	1

Lab Sample ID: LCS 180-371083/5
Matrix: Water
Analysis Batch: 371083

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	53.1		mg/L		106	90 - 110
Fluoride	2.50	2.63		mg/L		105	90 - 110
Sulfate	50.0	52.9		mg/L		106	90 - 110

Lab Sample ID: 180-126278-1 MS
Matrix: Water
Analysis Batch: 371083

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
Chloride	3.3	F1	50.0	51.2		mg/L		96	90 - 110

Lab Sample ID: 180-126278-1 MSD
Matrix: Water
Analysis Batch: 371083

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
Chloride	3.3	F1	50.0	61.5	F1	mg/L		116	90 - 110	18	20

Lab Sample ID: MB 180-371996/90
Matrix: Water
Analysis Batch: 371996

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/19/21 17:24	1
Fluoride	<0.026		0.10	0.026	mg/L			09/19/21 17:24	1
Sulfate	<0.76		1.0	0.76	mg/L			09/19/21 17:24	1

Lab Sample ID: LCS 180-371996/89
Matrix: Water
Analysis Batch: 371996

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	2.51		mg/L		100	90 - 110
Sulfate	50.0	47.3		mg/L		95	90 - 110

QC Sample Results

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

Job ID: 180-126277-1

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

Lab Sample ID: MB 180-369722/1-A
Matrix: Water
Analysis Batch: 369936

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		08/31/21 08:56	09/01/21 08:08	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		08/31/21 08:56	09/01/21 08:08	1
Barium	<0.0016		0.010	0.0016	mg/L		08/31/21 08:56	09/01/21 08:08	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		08/31/21 08:56	09/01/21 08:08	1
Boron	<0.039		0.080	0.039	mg/L		08/31/21 08:56	09/01/21 08:08	1
Calcium	<0.13		0.50	0.13	mg/L		08/31/21 08:56	09/01/21 08:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		08/31/21 08:56	09/01/21 08:08	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		08/31/21 08:56	09/01/21 08:08	1
Lead	<0.00013		0.0010	0.00013	mg/L		08/31/21 08:56	09/01/21 08:08	1
Lithium	<0.0034		0.0050	0.0034	mg/L		08/31/21 08:56	09/01/21 08:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		08/31/21 08:56	09/01/21 08:08	1
Selenium	<0.0015		0.0050	0.0015	mg/L		08/31/21 08:56	09/01/21 08:08	1
Thallium	<0.00015		0.0010	0.00015	mg/L		08/31/21 08:56	09/01/21 08:08	1

Lab Sample ID: LCS 180-369722/2-A
Matrix: Water
Analysis Batch: 369936

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.246		mg/L		98	80 - 120
Arsenic	1.00	1.03		mg/L		103	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Beryllium	0.500	0.479		mg/L		96	80 - 120
Boron	1.25	1.28		mg/L		102	80 - 120
Calcium	25.0	26.6		mg/L		106	80 - 120
Chromium	0.500	0.502		mg/L		100	80 - 120
Cobalt	0.500	0.503		mg/L		101	80 - 120
Lead	0.500	0.502		mg/L		100	80 - 120
Lithium	0.500	0.509		mg/L		102	80 - 120
Molybdenum	0.500	0.520		mg/L		104	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120

Lab Sample ID: MB 180-369957/1-A
Matrix: Water
Analysis Batch: 370289

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 16:11	09/03/21 08:37	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 16:11	09/03/21 08:37	1
Barium	<0.0016		0.010	0.0016	mg/L		09/01/21 16:11	09/03/21 08:37	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 16:11	09/03/21 08:37	1
Boron	<0.039		0.080	0.039	mg/L		09/01/21 16:11	09/03/21 08:37	1
Calcium	<0.13		0.50	0.13	mg/L		09/01/21 16:11	09/03/21 08:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 16:11	09/03/21 08:37	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/01/21 16:11	09/03/21 08:37	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 16:11	09/03/21 08:37	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/01/21 16:11	09/03/21 08:37	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 16:11	09/03/21 08:37	1

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QC Sample Results

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

Job ID: 180-126277-1

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

Lab Sample ID: MB 180-369957/1-A
Matrix: Water
Analysis Batch: 370289

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 16:11	09/03/21 08:37	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 16:11	09/03/21 08:37	1

Lab Sample ID: LCS 180-369957/2-A
Matrix: Water
Analysis Batch: 370289

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.237		mg/L		95	80 - 120
Arsenic	1.00	1.02		mg/L		102	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Beryllium	0.500	0.504		mg/L		101	80 - 120
Boron	1.25	1.18		mg/L		94	80 - 120
Calcium	25.0	26.9		mg/L		107	80 - 120
Chromium	0.500	0.506		mg/L		101	80 - 120
Cobalt	0.500	0.510		mg/L		102	80 - 120
Lead	0.500	0.504		mg/L		101	80 - 120
Lithium	0.500	0.485		mg/L		97	80 - 120
Molybdenum	0.500	0.512		mg/L		102	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: MB 180-369963/1-A
Matrix: Water
Analysis Batch: 370294

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:08	09/03/21 13:05	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 17:08	09/03/21 13:05	1
Barium	<0.0016		0.010	0.0016	mg/L		09/01/21 17:08	09/03/21 13:05	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 17:08	09/03/21 13:05	1
Boron	<0.039		0.080	0.039	mg/L		09/01/21 17:08	09/03/21 13:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/01/21 17:08	09/03/21 13:05	1
Calcium	<0.13		0.50	0.13	mg/L		09/01/21 17:08	09/03/21 13:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:08	09/03/21 13:05	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/01/21 17:08	09/03/21 13:05	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 17:08	09/03/21 13:05	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/01/21 17:08	09/03/21 13:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:08	09/03/21 13:05	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 17:08	09/03/21 13:05	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:08	09/03/21 13:05	1

Lab Sample ID: LCS 180-369963/2-A
Matrix: Water
Analysis Batch: 370294

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.242		mg/L		97	80 - 120
Arsenic	1.00	1.01		mg/L		101	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-126277-1

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

Lab Sample ID: LCS 180-369963/2-A
Matrix: Water
Analysis Batch: 370294

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	1.00	0.999		mg/L		100	80 - 120
Beryllium	0.500	0.475		mg/L		95	80 - 120
Boron	1.25	1.20		mg/L		96	80 - 120
Cadmium	0.500	0.503		mg/L		101	80 - 120
Calcium	25.0	26.7		mg/L		107	80 - 120
Chromium	0.500	0.488		mg/L		98	80 - 120
Cobalt	0.500	0.494		mg/L		99	80 - 120
Lead	0.500	0.497		mg/L		99	80 - 120
Lithium	0.500	0.499		mg/L		100	80 - 120
Molybdenum	0.500	0.516		mg/L		103	80 - 120
Selenium	1.00	0.989		mg/L		99	80 - 120
Thallium	1.00	0.999		mg/L		100	80 - 120

Lab Sample ID: 180-126364-8 MS
Matrix: Water
Analysis Batch: 370294

Client Sample ID: WGWC-10
Prep Type: Total Recoverable
Prep Batch: 369963

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.00038		0.250	0.233		mg/L		93	75 - 125
Arsenic	<0.00031		1.00	1.02		mg/L		102	75 - 125
Barium	0.032		1.00	1.03		mg/L		99	75 - 125
Beryllium	<0.00018		0.500	0.480		mg/L		96	75 - 125
Boron	<0.039		1.25	1.21		mg/L		97	75 - 125
Cadmium	<0.00022		0.500	0.501		mg/L		100	75 - 125
Calcium	7.6		25.0	33.8		mg/L		105	75 - 125
Chromium	0.0024		0.500	0.494		mg/L		98	75 - 125
Cobalt	0.00044	J	0.500	0.497		mg/L		99	75 - 125
Lead	0.00026	J	0.500	0.505		mg/L		101	75 - 125
Lithium	0.0044	J	0.500	0.504		mg/L		100	75 - 125
Molybdenum	<0.00061		0.500	0.520		mg/L		104	75 - 125
Selenium	<0.0015		1.00	0.966		mg/L		97	75 - 125
Thallium	<0.00015		1.00	1.03		mg/L		103	75 - 125

Lab Sample ID: 180-126364-8 MSD
Matrix: Water
Analysis Batch: 370294

Client Sample ID: WGWC-10
Prep Type: Total Recoverable
Prep Batch: 369963

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.00038		0.250	0.240		mg/L		96	75 - 125	3	20
Arsenic	<0.00031		1.00	1.02		mg/L		102	75 - 125	1	20
Barium	0.032		1.00	1.04		mg/L		100	75 - 125	1	20
Beryllium	<0.00018		0.500	0.469		mg/L		94	75 - 125	2	20
Boron	<0.039		1.25	1.24		mg/L		99	75 - 125	2	20
Cadmium	<0.00022		0.500	0.504		mg/L		101	75 - 125	1	20
Calcium	7.6		25.0	34.7		mg/L		109	75 - 125	3	20
Chromium	0.0024		0.500	0.500		mg/L		100	75 - 125	1	20
Cobalt	0.00044	J	0.500	0.501		mg/L		100	75 - 125	1	20
Lead	0.00026	J	0.500	0.501		mg/L		100	75 - 125	1	20
Lithium	0.0044	J	0.500	0.495		mg/L		98	75 - 125	2	20

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QC Sample Results

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

Job ID: 180-126277-1

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

Lab Sample ID: 180-126364-8 MSD
Matrix: Water
Analysis Batch: 370294

Client Sample ID: WGWC-10
Prep Type: Total Recoverable
Prep Batch: 369963

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	<0.00061		0.500	0.519		mg/L		104	75 - 125	0	20
Selenium	<0.0015		1.00	0.990		mg/L		99	75 - 125	2	20
Thallium	<0.00015		1.00	1.02		mg/L		102	75 - 125	1	20

Lab Sample ID: MB 180-369967/1-A
Matrix: Water
Analysis Batch: 370294

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		09/01/21 17:34	09/03/21 14:45	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		09/01/21 17:34	09/03/21 14:45	1
Barium	<0.0016		0.010	0.0016	mg/L		09/01/21 17:34	09/03/21 14:45	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/01/21 17:34	09/03/21 14:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		09/01/21 17:34	09/03/21 14:45	1
Calcium	<0.13		0.50	0.13	mg/L		09/01/21 17:34	09/03/21 14:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/01/21 17:34	09/03/21 14:45	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		09/01/21 17:34	09/03/21 14:45	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/01/21 17:34	09/03/21 14:45	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/01/21 17:34	09/03/21 14:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/01/21 17:34	09/03/21 14:45	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/01/21 17:34	09/03/21 14:45	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/01/21 17:34	09/03/21 14:45	1

Lab Sample ID: MB 180-369967/1-A
Matrix: Water
Analysis Batch: 370307

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.039		0.080	0.039	mg/L		09/01/21 17:34	09/04/21 10:33	1

Lab Sample ID: LCS 180-369967/2-A
Matrix: Water
Analysis Batch: 370294

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.235		mg/L		94	80 - 120
Arsenic	1.00	0.981		mg/L		98	80 - 120
Barium	1.00	0.995		mg/L		99	80 - 120
Beryllium	0.500	0.498		mg/L		100	80 - 120
Cadmium	0.500	0.504		mg/L		101	80 - 120
Calcium	25.0	26.3		mg/L		105	80 - 120
Chromium	0.500	0.487		mg/L		97	80 - 120
Cobalt	0.500	0.484		mg/L		97	80 - 120
Lead	0.500	0.505		mg/L		101	80 - 120
Lithium	0.500	0.522		mg/L		104	80 - 120
Molybdenum	0.500	0.507		mg/L		101	80 - 120
Selenium	1.00	0.985		mg/L		99	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120

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QC Sample Results

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

Job ID: 180-126277-1

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

Lab Sample ID: LCS 180-369967/2-A
Matrix: Water
Analysis Batch: 370307

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369967
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.25	1.22		mg/L		98	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-370941/1-A
Matrix: Water
Analysis Batch: 371007

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 370941

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/10/21 09:50	09/10/21 16:48	1

Lab Sample ID: LCS 180-370941/2-A
Matrix: Water
Analysis Batch: 371007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 370941
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00261		mg/L		104	80 - 120

Lab Sample ID: MB 180-372692/1-A
Matrix: Water
Analysis Batch: 372848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		09/24/21 06:57	09/24/21 16:16	1

Lab Sample ID: LCS 180-372692/2-A
Matrix: Water
Analysis Batch: 372848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372692
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00248		mg/L		99	80 - 120

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

Lab Sample ID: MB 180-369661/2
Matrix: Water
Analysis Batch: 369661

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			08/30/21 15:16	1

Lab Sample ID: LCS 180-369661/1
Matrix: Water
Analysis Batch: 369661

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	685	692		mg/L		101	80 - 120

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QC Sample Results

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

Job ID: 180-126277-1

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

Lab Sample ID: MB 180-369673/2
Matrix: Water
Analysis Batch: 369673

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			08/30/21 17:35	1

Lab Sample ID: LCS 180-369673/1
Matrix: Water
Analysis Batch: 369673

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	685	694		mg/L		101	80 - 120

Lab Sample ID: 180-126278-1 DU
Matrix: Water
Analysis Batch: 369673

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	110		107		mg/L		2	10

Lab Sample ID: MB 180-369797/2
Matrix: Water
Analysis Batch: 369797

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			08/31/21 13:45	1

Lab Sample ID: LCS 180-369797/1
Matrix: Water
Analysis Batch: 369797

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	685	672		mg/L		98	80 - 120

Lab Sample ID: MB 180-369958/2
Matrix: Water
Analysis Batch: 369958

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			09/01/21 16:13	1

Lab Sample ID: LCS 180-369958/1
Matrix: Water
Analysis Batch: 369958

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	685	728		mg/L		106	80 - 120

Lab Sample ID: MB 180-369959/2
Matrix: Water
Analysis Batch: 369959

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			09/01/21 16:21	1

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QC Sample Results

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

Job ID: 180-126277-1

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

Lab Sample ID: LCS 180-369959/1
Matrix: Water
Analysis Batch: 369959

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	685	676		mg/L		99	80 - 120

Lab Sample ID: 180-126367-5 DU
Matrix: Water
Analysis Batch: 369959

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	220		228		mg/L		4	10

Lab Sample ID: MB 180-370094/2
Matrix: Water
Analysis Batch: 370094

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			09/02/21 11:51	1

Lab Sample ID: LCS 180-370094/1
Matrix: Water
Analysis Batch: 370094

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	685	698		mg/L		102	80 - 120

Lab Sample ID: 180-126364-6 DU
Matrix: Water
Analysis Batch: 370094

Client Sample ID: WGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	94		102		mg/L		8	10

QC Association Summary

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

Job ID: 180-126277-1

HPLC/IC

Analysis Batch: 370384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126278-1	WGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-126278-2	EB-1	Total/NA	Water	EPA 300.0 R2.1	
180-126278-3	WGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-126278-4	WGWA-4	Total/NA	Water	EPA 300.0 R2.1	
MB 180-370384/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-370384/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-126278-1 MS	WGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-126278-1 MSD	WGWA-2	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 370761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126277-1	WGWA-5	Total/NA	Water	EPA 300.0 R2.1	
180-126277-2	FB-1	Total/NA	Water	EPA 300.0 R2.1	
180-126277-3	WGWA-6	Total/NA	Water	EPA 300.0 R2.1	
180-126277-4	WGWA-7	Total/NA	Water	EPA 300.0 R2.1	
MB 180-370761/88	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-370761/87	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-126277-1 MS	WGWA-5	Total/NA	Water	EPA 300.0 R2.1	
180-126277-1 MSD	WGWA-5	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 370919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126364-1	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	
180-126364-2	WGWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-126364-3	WGWC-14A	Total/NA	Water	EPA 300.0 R2.1	
180-126364-4	EB-2	Total/NA	Water	EPA 300.0 R2.1	
180-126364-5	WGWC-17	Total/NA	Water	EPA 300.0 R2.1	
180-126364-6	WGWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-126364-7	Dup-2	Total/NA	Water	EPA 300.0 R2.1	
180-126364-8	WGWC-10	Total/NA	Water	EPA 300.0 R2.1	
180-126364-9	WGWC-24	Total/NA	Water	EPA 300.0 R2.1	
180-126364-10	Dup-3	Total/NA	Water	EPA 300.0 R2.1	
180-126364-11	WGWC-25	Total/NA	Water	EPA 300.0 R2.1	
180-126364-12	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-126364-12	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-126364-13	WGWC-15	Total/NA	Water	EPA 300.0 R2.1	
180-126364-14	WGWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-126364-14	WGWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-126364-15	WGWC-23	Total/NA	Water	EPA 300.0 R2.1	
180-126364-16	FB-3	Total/NA	Water	EPA 300.0 R2.1	
MB 180-370919/63	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-370919/62	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-126364-1 MS	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	
180-126364-1 MSD	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	
180-126364-11 MS	WGWC-25	Total/NA	Water	EPA 300.0 R2.1	
180-126364-11 MSD	WGWC-25	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 370999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126367-1	WGWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-126367-2	WGWC-11	Total/NA	Water	EPA 300.0 R2.1	

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QC Association Summary

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

Job ID: 180-126277-1

HPLC/IC (Continued)

Analysis Batch: 370999 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126367-3	WGWC-12	Total/NA	Water	EPA 300.0 R2.1	
180-126367-4	FB-2	Total/NA	Water	EPA 300.0 R2.1	
180-126367-5	WGWC-16	Total/NA	Water	EPA 300.0 R2.1	
180-126367-6	EB-3	Total/NA	Water	EPA 300.0 R2.1	
180-126367-7	WGWC-21	Total/NA	Water	EPA 300.0 R2.1	
180-126367-7	WGWC-21	Total/NA	Water	EPA 300.0 R2.1	
180-126367-8	WGWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-126367-9	WGWC-22	Total/NA	Water	EPA 300.0 R2.1	
MB 180-370999/41	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-370999/40	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-126367-8 MS	WGWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-126367-8 MSD	WGWC-9	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 371083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126278-1	WGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-126278-2	EB-1	Total/NA	Water	EPA 300.0 R2.1	
180-126278-3	WGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-126278-4	WGWA-4	Total/NA	Water	EPA 300.0 R2.1	
MB 180-371083/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-371083/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-126278-1 MS	WGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-126278-1 MSD	WGWA-2	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 371996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126277-5	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
MB 180-371996/90	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-371996/89	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 369722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126277-1	WGWA-5	Total Recoverable	Water	3005A	
180-126277-2	FB-1	Total Recoverable	Water	3005A	
180-126277-3	WGWA-6	Total Recoverable	Water	3005A	
180-126277-4	WGWA-7	Total Recoverable	Water	3005A	
180-126277-5	Dup-1	Total Recoverable	Water	3005A	
180-126278-1	WGWA-2	Total Recoverable	Water	3005A	
180-126278-2	EB-1	Total Recoverable	Water	3005A	
180-126278-3	WGWA-1	Total Recoverable	Water	3005A	
180-126278-4	WGWA-4	Total Recoverable	Water	3005A	
MB 180-369722/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-369722/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 369936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126277-1	WGWA-5	Total Recoverable	Water	EPA 6020B	369722
180-126277-2	FB-1	Total Recoverable	Water	EPA 6020B	369722
180-126277-3	WGWA-6	Total Recoverable	Water	EPA 6020B	369722

Eurofins TestAmerica, Pittsburgh

QC Association Summary

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

Job ID: 180-126277-1

Metals (Continued)

Analysis Batch: 369936 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126277-4	WGWA-7	Total Recoverable	Water	EPA 6020B	369722
180-126277-5	Dup-1	Total Recoverable	Water	EPA 6020B	369722
180-126278-1	WGWA-2	Total Recoverable	Water	EPA 6020B	369722
180-126278-2	EB-1	Total Recoverable	Water	EPA 6020B	369722
180-126278-3	WGWA-1	Total Recoverable	Water	EPA 6020B	369722
180-126278-4	WGWA-4	Total Recoverable	Water	EPA 6020B	369722
MB 180-369722/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	369722
LCS 180-369722/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	369722

Prep Batch: 369957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126364-1	WGWA-18	Total Recoverable	Water	3005A	
180-126364-2	WGWC-13	Total Recoverable	Water	3005A	
180-126364-3	WGWC-14A	Total Recoverable	Water	3005A	
180-126364-4	EB-2	Total Recoverable	Water	3005A	
180-126364-5	WGWC-17	Total Recoverable	Water	3005A	
180-126364-6	WGWC-19	Total Recoverable	Water	3005A	
180-126364-7	Dup-2	Total Recoverable	Water	3005A	
MB 180-369957/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-369957/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 369963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126364-8	WGWC-10	Total Recoverable	Water	3005A	
180-126367-1	WGWA-3	Total Recoverable	Water	3005A	
180-126367-2	WGWC-11	Total Recoverable	Water	3005A	
180-126367-3	WGWC-12	Total Recoverable	Water	3005A	
180-126367-4	FB-2	Total Recoverable	Water	3005A	
180-126367-5	WGWC-16	Total Recoverable	Water	3005A	
180-126367-6	EB-3	Total Recoverable	Water	3005A	
180-126367-7	WGWC-21	Total Recoverable	Water	3005A	
180-126367-8	WGWC-9	Total Recoverable	Water	3005A	
180-126367-9	WGWC-22	Total Recoverable	Water	3005A	
MB 180-369963/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-369963/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-126364-8 MS	WGWC-10	Total Recoverable	Water	3005A	
180-126364-8 MSD	WGWC-10	Total Recoverable	Water	3005A	

Prep Batch: 369967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126364-9	WGWC-24	Total Recoverable	Water	3005A	
180-126364-10	Dup-3	Total Recoverable	Water	3005A	
180-126364-11	WGWC-25	Total Recoverable	Water	3005A	
180-126364-12	WGWC-8	Total Recoverable	Water	3005A	
180-126364-13	WGWC-15	Total Recoverable	Water	3005A	
180-126364-14	WGWC-20	Total Recoverable	Water	3005A	
180-126364-15	WGWC-23	Total Recoverable	Water	3005A	
180-126364-16	FB-3	Total Recoverable	Water	3005A	
MB 180-369967/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-369967/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

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

Job ID: 180-126277-1

Metals

Analysis Batch: 370289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126364-1	WGWA-18	Total Recoverable	Water	EPA 6020B	369957
180-126364-2	WGWC-13	Total Recoverable	Water	EPA 6020B	369957
180-126364-3	WGWC-14A	Total Recoverable	Water	EPA 6020B	369957
180-126364-4	EB-2	Total Recoverable	Water	EPA 6020B	369957
180-126364-5	WGWC-17	Total Recoverable	Water	EPA 6020B	369957
180-126364-6	WGWC-19	Total Recoverable	Water	EPA 6020B	369957
180-126364-7	Dup-2	Total Recoverable	Water	EPA 6020B	369957
MB 180-369957/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	369957
LCS 180-369957/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	369957

Analysis Batch: 370294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126364-8	WGWC-10	Total Recoverable	Water	EPA 6020B	369963
180-126364-9	WGWC-24	Total Recoverable	Water	EPA 6020B	369967
180-126364-10	Dup-3	Total Recoverable	Water	EPA 6020B	369967
180-126364-11	WGWC-25	Total Recoverable	Water	EPA 6020B	369967
180-126364-12	WGWC-8	Total Recoverable	Water	EPA 6020B	369967
180-126364-13	WGWC-15	Total Recoverable	Water	EPA 6020B	369967
180-126364-14	WGWC-20	Total Recoverable	Water	EPA 6020B	369967
180-126364-15	WGWC-23	Total Recoverable	Water	EPA 6020B	369967
180-126364-16	FB-3	Total Recoverable	Water	EPA 6020B	369967
180-126367-1	WGWA-3	Total Recoverable	Water	EPA 6020B	369963
180-126367-2	WGWC-11	Total Recoverable	Water	EPA 6020B	369963
180-126367-3	WGWC-12	Total Recoverable	Water	EPA 6020B	369963
180-126367-4	FB-2	Total Recoverable	Water	EPA 6020B	369963
180-126367-5	WGWC-16	Total Recoverable	Water	EPA 6020B	369963
180-126367-6	EB-3	Total Recoverable	Water	EPA 6020B	369963
180-126367-7	WGWC-21	Total Recoverable	Water	EPA 6020B	369963
180-126367-8	WGWC-9	Total Recoverable	Water	EPA 6020B	369963
180-126367-9	WGWC-22	Total Recoverable	Water	EPA 6020B	369963
MB 180-369963/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	369963
MB 180-369967/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	369967
LCS 180-369963/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	369963
LCS 180-369967/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	369967
180-126364-8 MS	WGWC-10	Total Recoverable	Water	EPA 6020B	369963
180-126364-8 MSD	WGWC-10	Total Recoverable	Water	EPA 6020B	369963

Analysis Batch: 370307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126364-9	WGWC-24	Total Recoverable	Water	EPA 6020B	369967
180-126364-10	Dup-3	Total Recoverable	Water	EPA 6020B	369967
180-126364-11	WGWC-25	Total Recoverable	Water	EPA 6020B	369967
180-126364-12	WGWC-8	Total Recoverable	Water	EPA 6020B	369967
180-126364-13	WGWC-15	Total Recoverable	Water	EPA 6020B	369967
180-126364-14	WGWC-20	Total Recoverable	Water	EPA 6020B	369967
180-126364-15	WGWC-23	Total Recoverable	Water	EPA 6020B	369967
180-126364-16	FB-3	Total Recoverable	Water	EPA 6020B	369967
MB 180-369967/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	369967
LCS 180-369967/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	369967

Eurofins TestAmerica, Pittsburgh

QC Association Summary

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

Job ID: 180-126277-1

Metals

Prep Batch: 370941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126364-9	WGWC-24	Total/NA	Water	7470A	
180-126364-10	Dup-3	Total/NA	Water	7470A	
180-126364-11	WGWC-25	Total/NA	Water	7470A	
180-126364-14	WGWC-20	Total/NA	Water	7470A	
180-126364-15	WGWC-23	Total/NA	Water	7470A	
180-126364-16	FB-3	Total/NA	Water	7470A	
180-126367-6	EB-3	Total/NA	Water	7470A	
180-126367-7	WGWC-21	Total/NA	Water	7470A	
180-126367-9	WGWC-22	Total/NA	Water	7470A	
MB 180-370941/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-370941/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 371007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126364-9	WGWC-24	Total/NA	Water	EPA 7470A	370941
180-126364-10	Dup-3	Total/NA	Water	EPA 7470A	370941
180-126364-11	WGWC-25	Total/NA	Water	EPA 7470A	370941
180-126364-14	WGWC-20	Total/NA	Water	EPA 7470A	370941
180-126364-15	WGWC-23	Total/NA	Water	EPA 7470A	370941
180-126364-16	FB-3	Total/NA	Water	EPA 7470A	370941
180-126367-6	EB-3	Total/NA	Water	EPA 7470A	370941
180-126367-7	WGWC-21	Total/NA	Water	EPA 7470A	370941
180-126367-9	WGWC-22	Total/NA	Water	EPA 7470A	370941
MB 180-370941/1-A	Method Blank	Total/NA	Water	EPA 7470A	370941
LCS 180-370941/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	370941

Prep Batch: 372692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126367-6	EB-3	Total/NA	Water	7470A	
MB 180-372692/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-372692/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 372848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126367-6	EB-3	Total/NA	Water	EPA 7470A	372692
MB 180-372692/1-A	Method Blank	Total/NA	Water	EPA 7470A	372692
LCS 180-372692/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	372692

General Chemistry

Analysis Batch: 369661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126277-1	WGWA-5	Total/NA	Water	SM 2540C	
180-126277-2	FB-1	Total/NA	Water	SM 2540C	
180-126277-3	WGWA-6	Total/NA	Water	SM 2540C	
180-126277-4	WGWA-7	Total/NA	Water	SM 2540C	
180-126278-2	EB-1	Total/NA	Water	SM 2540C	
180-126278-3	WGWA-1	Total/NA	Water	SM 2540C	
MB 180-369661/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-369661/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

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

Job ID: 180-126277-1

General Chemistry

Analysis Batch: 369673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126278-1	WGWA-2	Total/NA	Water	SM 2540C	
MB 180-369673/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-369673/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-126278-1 DU	WGWA-2	Total/NA	Water	SM 2540C	

Analysis Batch: 369797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126277-5	Dup-1	Total/NA	Water	SM 2540C	
180-126278-4	WGWA-4	Total/NA	Water	SM 2540C	
MB 180-369797/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-369797/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 369958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126364-1	WGWA-18	Total/NA	Water	SM 2540C	
180-126364-2	WGWC-13	Total/NA	Water	SM 2540C	
180-126364-3	WGWC-14A	Total/NA	Water	SM 2540C	
180-126364-4	EB-2	Total/NA	Water	SM 2540C	
180-126364-5	WGWC-17	Total/NA	Water	SM 2540C	
180-126367-1	WGWA-3	Total/NA	Water	SM 2540C	
180-126367-2	WGWC-11	Total/NA	Water	SM 2540C	
180-126367-3	WGWC-12	Total/NA	Water	SM 2540C	
180-126367-4	FB-2	Total/NA	Water	SM 2540C	
MB 180-369958/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-369958/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 369959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126367-5	WGWC-16	Total/NA	Water	SM 2540C	
MB 180-369959/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-369959/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-126367-5 DU	WGWC-16	Total/NA	Water	SM 2540C	

Analysis Batch: 370094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126364-6	WGWC-19	Total/NA	Water	SM 2540C	
180-126364-7	Dup-2	Total/NA	Water	SM 2540C	
180-126364-8	WGWC-10	Total/NA	Water	SM 2540C	
180-126364-9	WGWC-24	Total/NA	Water	SM 2540C	
180-126364-10	Dup-3	Total/NA	Water	SM 2540C	
180-126364-11	WGWC-25	Total/NA	Water	SM 2540C	
180-126364-12	WGWC-8	Total/NA	Water	SM 2540C	
180-126364-13	WGWC-15	Total/NA	Water	SM 2540C	
180-126364-14	WGWC-20	Total/NA	Water	SM 2540C	
180-126364-15	WGWC-23	Total/NA	Water	SM 2540C	
180-126364-16	FB-3	Total/NA	Water	SM 2540C	
180-126367-6	EB-3	Total/NA	Water	SM 2540C	
180-126367-7	WGWC-21	Total/NA	Water	SM 2540C	
180-126367-8	WGWC-9	Total/NA	Water	SM 2540C	
180-126367-9	WGWC-22	Total/NA	Water	SM 2540C	
MB 180-370094/2	Method Blank	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

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

Job ID: 180-126277-1

General Chemistry (Continued)

Analysis Batch: 370094 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-370094/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-126364-6 DU	WGWC-19	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 369662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126277-1	WGWA-5	Total/NA	Water	Field Sampling	
180-126277-3	WGWA-6	Total/NA	Water	Field Sampling	
180-126277-4	WGWA-7	Total/NA	Water	Field Sampling	
180-126278-1	WGWA-2	Total/NA	Water	Field Sampling	
180-126278-3	WGWA-1	Total/NA	Water	Field Sampling	
180-126278-4	WGWA-4	Total/NA	Water	Field Sampling	
180-126364-1	WGWA-18	Total/NA	Water	Field Sampling	
180-126364-2	WGWC-13	Total/NA	Water	Field Sampling	
180-126364-3	WGWC-14A	Total/NA	Water	Field Sampling	
180-126364-5	WGWC-17	Total/NA	Water	Field Sampling	
180-126364-6	WGWC-19	Total/NA	Water	Field Sampling	
180-126364-8	WGWC-10	Total/NA	Water	Field Sampling	
180-126364-9	WGWC-24	Total/NA	Water	Field Sampling	
180-126364-11	WGWC-25	Total/NA	Water	Field Sampling	
180-126364-12	WGWC-8	Total/NA	Water	Field Sampling	
180-126364-13	WGWC-15	Total/NA	Water	Field Sampling	
180-126364-14	WGWC-20	Total/NA	Water	Field Sampling	
180-126364-15	WGWC-23	Total/NA	Water	Field Sampling	

Analysis Batch: 370651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126367-1	WGWA-3	Total/NA	Water	Field Sampling	
180-126367-2	WGWC-11	Total/NA	Water	Field Sampling	
180-126367-3	WGWC-12	Total/NA	Water	Field Sampling	
180-126367-5	WGWC-16	Total/NA	Water	Field Sampling	
180-126367-7	WGWC-21	Total/NA	Water	Field Sampling	
180-126367-8	WGWC-9	Total/NA	Water	Field Sampling	
180-126367-9	WGWC-22	Total/NA	Water	Field Sampling	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Client Information		Sampler: <u>LS Add</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:												
Client Contact: SCS Contacts		Phone: <u>770-5945948</u>		E-Mail: <u>shali.brown@eurofinset.com</u>				Page:												
Company: GA Power								Job #:												
Address: 241 Ralph McGill Blvd SE		Due Date Requested:						Preservation Codes:												
City: Atlanta		TAT Requested (days):						A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S 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)												
State, Zip: GA, 30308		PO #:						Other:												
Phone: 404-506-7116(Tel)		WO #:																		
Email: SCS Contacts		Project #: 18019922																		
Project Name: CCR - Plant Wansley Ash Pond		SSOW#:																		
Site:																				
Sample Identification	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)	Analysis Requested										Total Number of containers	Special Instructions/Note:		
							App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2540C)	Detected App IV Metals (EPA 6020/7470): Sb,As,Ba,Be,Cr,Co,Pb,LI,Mo,Se,TI	Radium 226 & 228 (SW-946 9315/9320)	App IV Metals (EPA 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,LI,Hg,Mo,Se,TI	Radium 226 & 228 (SW-946 9315/9320)								
Preservation Code:																				
WGWA-5	8-24-21	1218	G	Water	N	N	✓	✓	✓											pH= 6.80
FB-1	8-24-21	1320	G	Water	N	N	✓	✓	✓											pH= NA
WGWA-6	8-24-21	1340	G	Water	N	N	✓	✓	✓											pH= 7.88
WGWA-7	8-24-21	1510	G	Water	N	N	✓	✓	✓											pH= 5.53
Dup-1	8-24-21	---	G	Water	N	N	✓	✓	✓											pH= NA
			G	Water																pH=
			G	Water																pH=
			G	Water																pH=
			G	Water																pH=
			G	Water																pH=
			G	Water																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				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			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 8/25/21 1145		Company:		Received by: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: 8/25/21 1145		Company:		Received by: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: 8/25/21 1145		Company:		Received by: <i>[Signature]</i>	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Chain of Custody Record

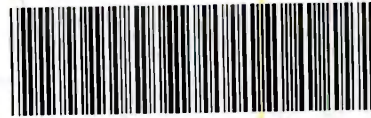
Client Information					Sampler: <i>J. Berwick</i>				Lab PM: Brown, Shali				Carrier Tracking No(s):				COC No:												
Client Contact:					Phone: <i>770-597-5948</i>				E-Mail: <i>shali.brown@eurofinset.com</i>				Page:				Job #:												
Company: GA Power					Address: 241 Ralph McGill Blvd SE					Due Date Requested:					Analysis Requested					Preservation Codes:									
City: Atlanta					TAT Requested (days):					Field Filtered Sample (Yes or No)					Total: Number of containers					A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S 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:									
State, Zip: GA, 30308					PO #:					App III Metals: B, Ca					Cl, F, SO & TDS (EPA 300 & SM 2640C)														
Phone: 404-506-7116(Tel)					WO #:					Detected App IV Metals (EPA 60207/470): Sb, As, Ba, Be, Cr, Co, Pb, Li, Mo, Se, Ti					Radium 226 & 228 (SW-546 9315/9320)														
Email: SCS Contacts					Project #: 18019922					App IV Metals (EPA 60207/470): Sb, As, Ba, Be, Cr, Co, Pb, Li, Hg, Mo, Se, Ti					Radium 226 & 228 (SW-546 9315/9320)														
Project Name: CCR - Plant Wansley Ash Pond					SSOW#:					Matrix (W=water, S=solid, C=water, A=air)					Special Instructions/Note:														
Sample Identification					Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix		Field Filtered Sample (Yes or No)				Total: Number of containers	Special Instructions/Note:														
					Preservation Code:																								
<i>W6WA-2</i>					<i>8-23-21</i>	<i>1535</i>	<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>1</i>	<i>pH= 6.18</i>													
<i>EB-1</i>					<i>8-24-21</i>	<i>1100</i>	<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>		<i>pH=</i>													
<i>W6WA-1</i>					<i>8-24-21</i>	<i>1145</i>	<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>		<i>pH= 5.21</i>													
<i>W6WA-4</i>					<i>8-24-21</i>	<i>1410</i>	<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>		<i>pH= 7.22</i>													
								<i>Water</i>								<i>pH=</i>													
								<i>Water</i>								<i>pH=</i>													
								<i>Water</i>								<i>pH=</i>													
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								<i>Water</i>								<i>pH=</i>													
								<i>Water</i>								<i>pH=</i>													
								<i>Water</i>								<i>pH=</i>													
								<i>Water</i>								<i>pH=</i>													
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 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:					Time:					Method of Shipment:														
Relinquished by: <i>[Signature]</i>					Date/Time: <i>8/25/21 1145</i>					Company: _____					Received by: <i>[Signature]</i>					Date/Time: <i>8/25/21 1145</i>					Company: _____				
Relinquished by: <i>[Signature]</i>					Date/Time: <i>8/25/21 1145</i>					Company: _____					Received by: <i>[Signature]</i>					Date/Time: <i>8-26-21</i>					Company: <i>ETA</i>				
Relinquished by: _____					Date/Time: _____					Company: _____					Received by: _____					Date/Time: <i>1000</i>					Company: _____				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No.:					Cooler Temperature(s) °C and Other Remarks:																			



Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



ofins Environment Testing America

Client Information		Sampler: <i>Hunter Auld</i>		Lab PM: Brown, Shali		
Client Contact: SCS Contacts		Phone: <i>770-594-5998</i>		E-Mail: <i>shali.brown@eurofinset.co</i>		
Company: GA Power		Analysis Requested				Job #:
Address: 241 Ralph McGill Blvd SE		Due Date Requested:				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S 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)
City: Atlanta		TAT Requested (days):				
State, Zip: GA, 30308		PO #:				
Phone: 404-506-7116(Tel)		WO #:				
Email: SCS Contacts		Project #: 18019922				
Project Name: CCR - Plant Wansley Ash Pond		SSOW#:				
Site:		Field Filtered Sample (Yes or No)				Total Number of containers
		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)				
		App III Metals: B, Ca				
		Cl, F, SO & TDS (EPA 300 & SM 2640C)				
		Detected App IV Metals (EPA 60207/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti				
		Radium 226 & 228 (SW-846 9316/9320)				
		App IV Metals (EPA 60207/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti				
		Radium 226 & 228 (SW-846 9316/9320)				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix	Special Instructions/Note:
		Preservation Code:				
<i>WGWA-18</i>		<i>8-25-21</i>	<i>1125</i>	<i>G</i>	<i>Water</i>	<i>4 pH= 6.74</i>
<i>WGWC-13</i>		<i>8-25-21</i>	<i>1245</i>	<i>G</i>	<i>Water</i>	<i>4 pH= 6.27</i>
<i>WGWC-14A</i>		<i>8-25-21</i>	<i>1330</i>	<i>G</i>	<i>Water</i>	<i>4 pH= 5.39</i>
<i>EB-2</i>		<i>8-25-21</i>	<i>1505</i>	<i>G</i>	<i>Water</i>	<i>4 pH=</i>
<i>WGWC-17</i>		<i>8-25-21</i>	<i>1455</i>	<i>G</i>	<i>Water</i>	<i>4 pH= 6.09</i>
<i>WGWC-19</i>		<i>8-26-21</i>	<i>1105</i>	<i>G</i>	<i>Water</i>	<i>4 pH= 6.66</i>
<i>Dup-2</i>		<i>8-26-21</i>	<i>—</i>	<i>G</i>	<i>Water</i>	<i>4 pH=</i>
<i>WGWC-10</i>		<i>8-26-21</i>	<i>1235</i>	<i>G</i>	<i>Water</i>	<i>4 pH= 6.31</i>
<i>WGWC-24</i>		<i>8-26-21</i>	<i>1355</i>	<i>G</i>	<i>Water</i>	<i>4 pH= 4.33</i>
<i>Dup-3</i>		<i>8-26-21</i>	<i>—</i>	<i>G</i>	<i>Water</i>	<i>4 pH=</i>
<i>WGWC-25</i>		<i>8-26-21</i>	<i>1552</i>	<i>G</i>	<i>Water</i>	<i>4 pH= 5.30</i>
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 checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<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:	Time:	Method of Shipment:		
Relinquished by: <i>Hunter Auld</i>		Date/Time: <i>8-27-21 / 1140</i>	Company: <i>ACC</i>	Received by: <i>Michael Meled</i>		Date/Time: <i>8-27-21 11:42</i>
Relinquished by: <i>Michael Meled</i>		Date/Time: <i>8-27-21 11:42</i>	Company:	Received by: <i>DW Citrus</i>		Date/Time: <i>8-28-21</i>
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time: <i>9/5</i>
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

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Chain of Custody Record



Client Information		Sampler: <i>Toby Johnson/H. Auld</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:									
Client Contact: SCS Contacts		Phone: <i>770-594-5978</i>		E-Mail: <i>shali.brown@eurofinset.com</i>				Page:									
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:		Due Date Requested:		TAT Requested (days):									
PO #:		WO #:		Project #: 18019922		SSOW#:		Analysis Requested									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Preserved (Yes or No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2640C)	Detected App IV Metals (EPA 60207470): Sb, As, Ba, Be, Cr, Co, Pb, Li, Mo, Se, Ti	Radium 226 & 228 (SW-846 9316/9320)	App IV Metals (EPA 60207470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti	Radium 226 & 228 (SW-846 9316/9320)	Total Number of containers	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S 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:	Special Instructions/Note:
Preservation Code:																	
<i>WGWC-8</i>		<i>8-26-21</i>	<i>1241</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>			<i>4</i>	<i>pH= 5.36</i>		
<i>WGWC-15</i>		<i>8-26-21</i>	<i>1614</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>			<i>6</i>	<i>pH= 7.58</i>	<i>Extra Rad</i>	
<i>WGWC-20</i>		<i>8-26-21</i>	<i>1132</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>✓</i>	<i>✓</i>			<i>✓</i>	<i>✓</i>	<i>4</i>	<i>pH= 5.37</i>		
<i>WGWC-23</i>		<i>8-26-21</i>	<i>1455</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>✓</i>	<i>✓</i>			<i>✓</i>	<i>✓</i>	<i>4</i>	<i>pH= 5.80</i>		
<i>FB-3</i>		<i>8-26-21</i>	<i>1453</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>W</i>	<i>✓</i>	<i>✓</i>			<i>✓</i>	<i>✓</i>	<i>4</i>	<i>pH=</i>		
				<i>G</i>	<i>Water</i>										<i>pH=</i>		
				<i>G</i>	<i>Water</i>										<i>pH=</i>		
				<i>G</i>	<i>Water</i>										<i>pH=</i>		
				<i>G</i>	<i>Water</i>										<i>pH=</i>		
				<i>G</i>	<i>Water</i>										<i>pH=</i>		
				<i>G</i>	<i>Water</i>										<i>pH=</i>		
				<i>G</i>	<i>Water</i>										<i>pH=</i>		
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: _____ Date: _____ Time: _____ Method of Shipment: _____		Relinquished by: <i>A. A. J.</i> Date/Time: <i>8-27-21 / 11:40</i> Company: <i>ACC</i>		Received by: <i>Michael Mackel</i> Date/Time: <i>8-27-21 11:42</i> Company: _____	
		Relinquished by: <i>Michael Mackel</i> Date/Time: <i>8-27-21 11:42</i> Company: _____		Received by: <i>D. Watson</i> Date/Time: <i>8-20-21</i> Company: <i>ETARK</i>													
		Relinquished by: _____ Date/Time: _____ Company: _____		Received by: _____ Date/Time: <i>9:15</i> Company: _____													
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:													


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 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Environment Testing
 America

Client Information		Sampler: <u>J. Benford/H. Auld</u>		Lab PM: <u>Brown, Shali</u>		Carrier Tracking No(s):		COC No:									
Client Contact: SCS Contacts		Phone: <u>770-544-5998</u>		E-Mail: <u>shali.brown@eurofinset.com</u>		 180-126367 Chain of Custody											
Company: GA Power		Address: 241 Ralph McGill Blvd SE		Due Date Requested:						Analysis Request C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)							
City: Atlanta		TAT Requested (days):		PO #:		Total Number of containers Other:											
State, Zip: GA, 30308		WO #:		Project #: 18019922						Field Filtered Sample (Yes or No) Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) Preservation Code:							
Phone: 404-506-7116(Tel)		SSOW#:		Project #: 18019922		App III Metals: B, Ca Cl, F, SO & TDS (EPA 300 & SM 2540C) Detected App IV Metals (EPA 60207/470): Sb,As,Ba,Be,Cr,Cd,Cr,Pb,LI,Mo,Se,Tl Radium 226 & 228 (SW-546 9315/9320) App IV Metals (EPA 60207/470): Sb,As,Ba,Be,Cd,Cr,Cr,Pb,LI,Hg,Mo,Se,Tl Radium 226 & 228 (SW-546 9315/9320)											
Email: SCS Contacts		Site:		Project #: 18019922						Special Instructions/Note:							
Project Name: CCR - Plant Wansley Ash Pond		Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)						Matrix		Field Filtered Sample (Yes or No)	
Site:		Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix		Field Filtered Sample (Yes or No)		Matrix		Special Instructions/Note:	
		W GwA-3		8-25-21		1050		G		Water		N N		✓ ✓		4 pH= 5.52	
		W GwC-11		8-25-21		1200		G		Water		N N		✓ ✓		4 pH= 5.66	
		W GwC-17		8-25-21		1330		G		Water		N N		✓ ✓		6 pH= 6.69	
		FB-2		8-25-21		1435		G		Water		N N		✓ ✓		4 pH= NA	
		W GwC-16		8-25-21		1450		G		Water		N N		✓ ✓		4 pH= 5.25	
		EB-3		8-26-21		1010		G		Water		N N		✓ ✓		4 pH= NA	
		W GwC-21		8-26-21		1130		G		Water		N N		✓ ✓		4 pH= 6.88	
		W GwC-9		8-26-21		1300		G		Water		N N		✓ ✓		4 pH= 5.84	
		W GwC-22		8-26-21		1520		G		Water		N N		✓ ✓		4 pH= 5.40	
								G		Water						pH=	
								G		Water						pH=	
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 checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<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:		Time:		Method of Shipment:											
Relinquished by: <u>J. Auld</u>		Date/Time: <u>8-27-21 / 1140</u>		Company: <u>ACC</u>		Received by: <u>Michael Masked</u>		Date/Time: <u>8-27-21 11:42</u>		Company:							
Relinquished by: <u>Michael Masked</u>		Date/Time: <u>8-27-21 11:42</u>		Company:		Received by: <u>D. Water</u>		Date/Time: <u>8-27-21</u>		Company: <u>ETA</u>							
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time: <u>9:15</u>		Company:							
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:													

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Do Not Lift Using This Tag

10/4/2021 (Rev. 1)

Part # 159469-434 R172 EXP 06/22 •



Environment Testing
TestAmerica

ORIGIN ID:LYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
ACTUET: 45.40 LB
CND 8591162CAF3409
BILL THIRD PARTY

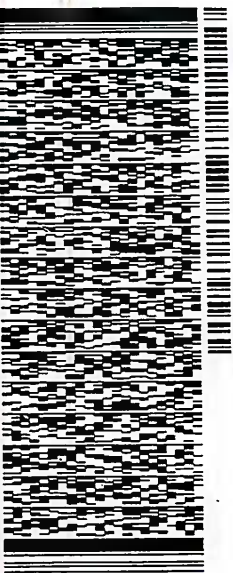
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 988-7068
REF1
DEPT1

Page 78 of 101



180-126277 Waybill



4 of 4
MPS# 1516 9332 3165
Matr# 1516 9332 3132
THU - 26 AUG 10:30
PRIORITY OVERNIGHT
15238
NA AGCA
PA-US PI

Uncorrected temp 31.1 °C
Thermometer ID 14111
CF G Initials 84
PT-Mt-SR-001 effective 11/8/18

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Do Not Lift
Using This Tag



Environment Testing
TestAmerica

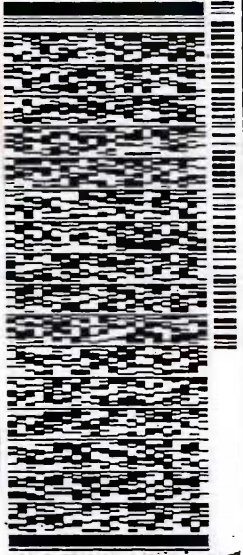
Part # 159469-434 RIT2 EXP 06/22

ORIGIN ID: ILYA (679) 966-9991
GEORGE WYLLOR
EUROFINS TESTING AMERICA ARL SC
8215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
ACTWT: 45.40 LB
CAD: 859116/CAP/E3409
BILL THIRD: PARTY

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

(412) 963-7058 REF: 0201
P.O. BOX 9211



MPS# 1516 9332 3143
0263
Mstr# 1516 9332 3132

THU - 26 AUG 10:30A
PRIORITY OVERNIGHT

NA AGCA
Uncorrected temp


15238
PIT



CF

Thermometer ID
Initials

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

 **eurofins**
Environment Testing
TestAmerica

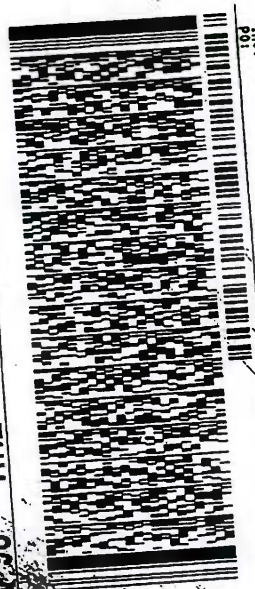
10/4/2021 (Rev. 1)

ORIGIN ID: ILYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
EUROFINS TESTING AMERICA
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
ACTWT: 45.40 LB
CMB: 859116/CNFE3409
BILL THIRD PARTY

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

REF: (412) 963-7068
DEPT: 1107
PO: 1107

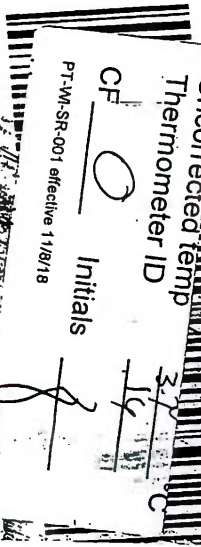


1 of 4
TRK# 1516 9332 3132
MASTER

NA AGCA

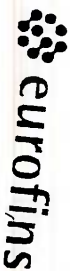
THU - 26 AUG
PRIORITY ONE

Uncorrected temp
Thermometer ID
CF O Initials Z
PT-M-SR-001 effective 1/18/18



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Do Not Lift Using This Tag



Environment Testing
TestAmerica

ORIGIN ID: LTYA (678) 966-9991
GEORGE AYLER
EUROFINS TESTING AMERICA
6215 REGENCY PARKWAY NW
SUITE 800
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
PCWTWT: 45.40 LB
CMB: 859116/CNFE3409

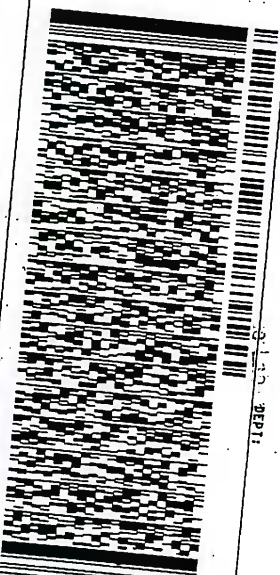
BILL THIRD PARTY

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

(412) 863-7058
P.O.

REF:

3133 SEPT:



J201120121801 04

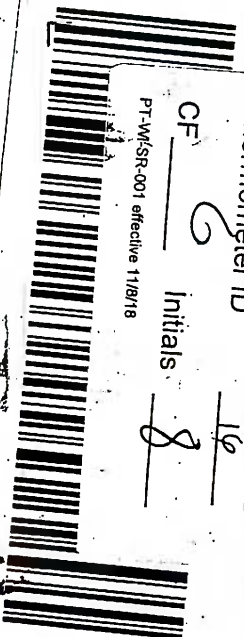
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0263 **1516 9332 3154**
Mstr# 1516 9332 3132
0201
THU - 26 AUG 10:30A
PRIORITY OVERNIGHT

NA AGCA

Uncorrected temp
Thermometer ID
48 C US
PIT 15238

CF Initials 8

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



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Do Not Lift Using This Tag

10/4/2021 (Rev. 1)

Part # 159469-434 RIT2 EXP 06/22 •



Environment Testing
TestAmerica

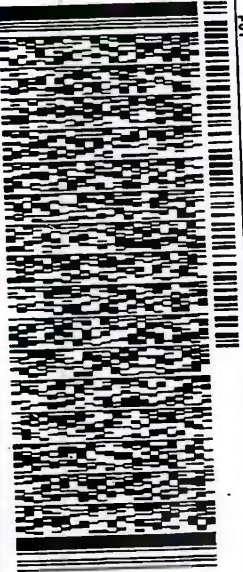
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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
ACTWG#: 45.40 LB
CNO: 959116/CPE3409
BILL THIRD PARTY

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

(412) 983-7066
PMT

REF1
DEPT1



Page 82 of 101



MPS# 1516 9332 3165
Met# 1516 9332 3132

NA AGCA

15238
PI

THU - 26 AUG 10:30
PRIORITY OVERNIGHT

4 of 4
Uncorrected temp 31 °C
Thermometer ID 14
CF G Initials 81
PT-WM-SR-001 effective 11/8/18

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Do Not Lift Using This Tag



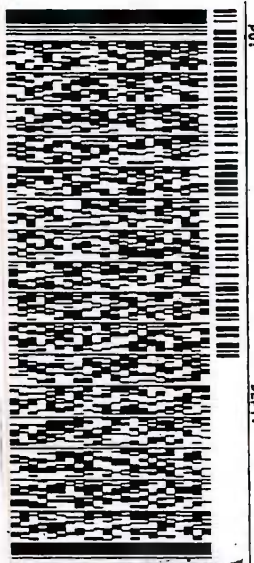
Environment Testing
TestAmerica

Part # 159469-434 R1T2 EXP 06/22 •

ORIGIN ID: IYA (678) 986-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
8215 REGENCY PARKWAY NW
SUITE 800
NORCROSS GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
ACTWGT: 45.40 LB
CAD: 859116/CAFE3409
BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDG PARK
PITTSBURGH PA 15238
REF: (412) 983-7058
DEPT: 001



MPS# 1516 9332 3143
Mstr# 1516 9332 3132

0201

THU - 26 AUG 10:30A
PRIORITY OVERNIGHT

NA AGCA

15238
PIT


Uncorrected temp
Thermometer ID

CF S Initials [Signature]



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

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 **eurofins**
Environment Testing
TestAmerica

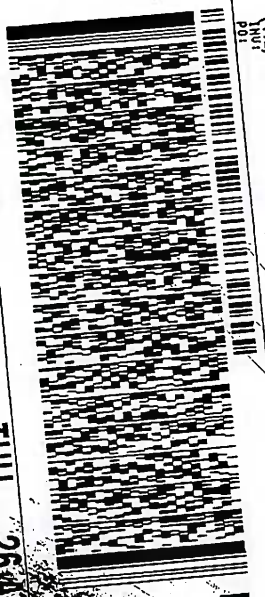
ORIGIN ID: IYA (578) 966-9991
GEORGE FAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENT WCY PARKWAY NW
SUITE 900 GR 30071
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
ACTWGT: 45.40 LB
CAD: 959115/CAFES409

BILL THIRD PARTY

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

(412) 983-7058
REF



1 of 4
TRK# 1516 9332 3132
0201
MASTER

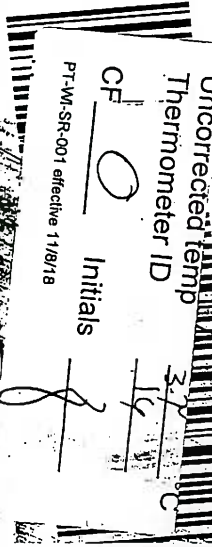
THU - 26 AUG
PRIORITY ONE

NA AGCA

Uncorrected temp
Thermometer ID

CF  Initials 

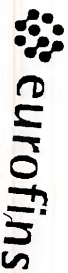
PT-WI-SR-001 effective 11/8/18



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Do Not Lift Using This Tag

10/4/2021 (Rev. 1)



Environment Testing
TestAmerica

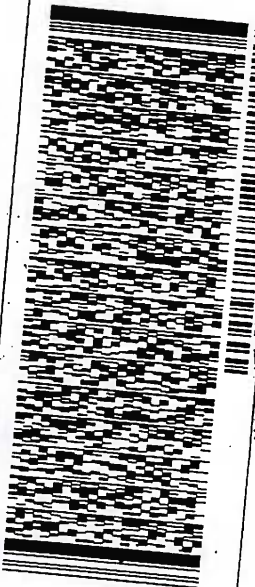
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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
SUITE AGENCY PARKWAY NW
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
ACTWGT: 45.40 LB
CRD: 859116/CNFE3409

BILL THIRD PARTY

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

(412) 983-7068
REF1
PRO1



MPS# 3 of 4
0263 1516 9332 3154
Mstr# 1516 9332 3132
0201
THU - 26 AUG 10:30A
PRIORITY OVERNIGHT

NA AGCA

Uncorrected temp 15238
Thermometer ID PIT

CF Initials 8



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

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Saturday/DELIVERY

 **eurofins**
Environment Testing
TestAmerica

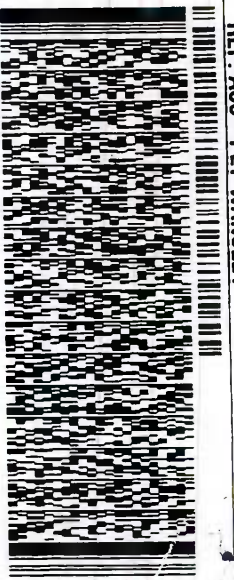
Part 150459 434 RIT2 EXP 06/22 10/4/2021 (Rev. 1)

ORIGIN ID: LIVA (678) 966-9934
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL, SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP TO
RT 639
BILL TO
TZ

1200

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15236
(412) 983-7068
REF: ACC - PLT WANSLEY



Page 3 of 1

1 of 7
TRK# 1516 9332 3886
0201
SATURDAY 12:00
PRIORITY OVERNIGHT

MASTER ##
XO AGCA
15236
PA-US PI



180-126364 Waybill

Uncorrected temp 3.8 °C
Thermometer ID 10
CF Q Initials Q
PT-VM-SR-001 effective 11/9/18



Do Not Lift Heavy This Tape



Environment Testing
TestAmerica

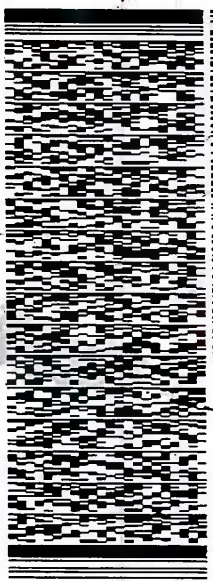
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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 27AUG21
ACTWT: 39.55 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 883-7058
REF: ACC - PLT WANSLEY



MPS# 1516 9332 3897

Mstr# 1516 9332 3886

2 of 7
SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 AGCA

15238
PA-US PIT

Uncorrected temp
Thermometer ID

2.3 °C



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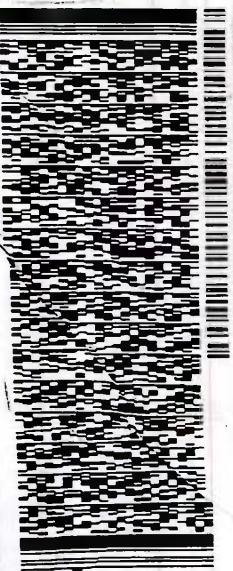
FedEx Saturday Delivery



ORIGIN ID:Liya (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 22AUG21
ACTWGT: 39.55 LB
CRD: 859116/CFE3409
BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 968-7068
REF: ACC - PLT WANSLEY



MPS# 1516 9332 3901

Mstr# 1516 9332 3886

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 AGCA

15238
PIT

Uncorrected temp 4.2 °C

Thermometer ID 16

CF G Initials S



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

FedEx Saturday Delivery



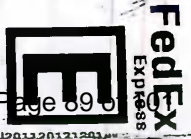
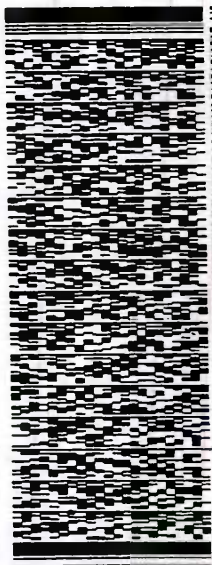
ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHL DATE: 27AUG21
ACT 151.39.55 LB
CHD: 859116/CNFE3409

BILL INCENT

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

(412) 983-7058
REF: ACC-PLT WANSLEY



MPS# 1516 9332 3923
0203
Mastr# 1516 9332 3886

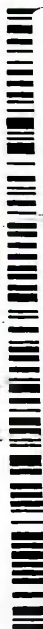
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X0 AGCA

15238
PA-US PIT

5 of 7
SATURDAY 12:00P
PRIORITY OVERNIGHT

Uncorrected temp 46 °C
Thermometer ID 10
CF D Initials S
PT-WI-SR-001 effective 11/8/18



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SDP
FedEx Saturday Delivery

Environment Testing
TestAmerica

15197 REV 10/06
Part # 159469-434 RIT2 EXP 06/22

10/4/2021 (Rev. 1)

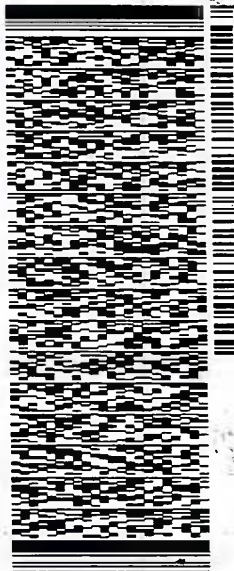
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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
SUTER REGENCY PARKWAY NW
SUITE 1000
NORCROSS GA 30071
UNITED STATES US

SHIP DATE: 27AUG21
ACTWT: 39.55 LB
CAD: 858116/CAFES3409

BILL RECIPIENT

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

(412) 983-7088
REF: ACC - PLT WANSLEY



MRS# 4 of 7
0263 1516 9332 3912

SATURDAY 12:00P
PRIORITY OVERNIGHT

Mstr# 1516 9332 3886

0201

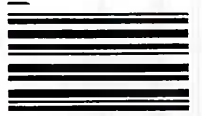
XO AGCA

15238
PA-US PIT

Uncorrected temp 2.8 °C
Thermometer ID 16

CF 0 Initials 8

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



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FedEx Saturday Delivery

151967 REV 1/20

SDR

FedEX
Express

 eurofins

Environment Testing
TestAmerica

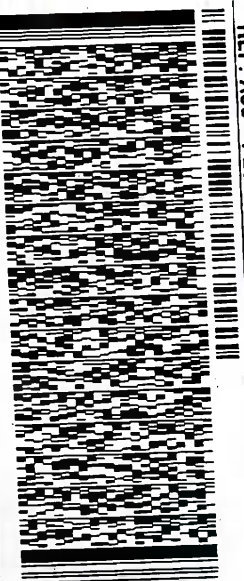
94 RIT2 EXP 06/22 •

ORIGIN ID:LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 RENSSELY PARKWAY NW
SUITE 900
NORCROSS GA 30071
UNITED STATES US

SHIP DATE: 27AUG21
ACTWT: 39.55 LB
CRD: 859116/CAFE3409
BILL RECIPIENT

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

(412) 963-7068
REF: AGC - PLI WANSLEY



FedEX
Express


70877

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#16

6 of 7
MPS# 1516 9332 3934
Mstr# 1516 9332 3886

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 AGCA

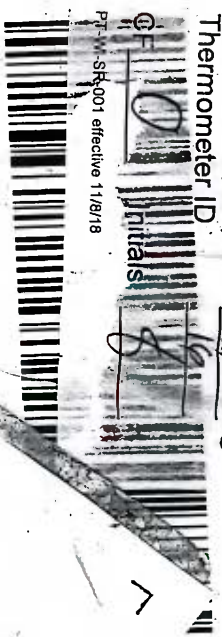
3.8 °C

Uncorrected temp

PA-US

PIT


15238



PT-M-SH001 effective 11/8/18

Thermometer ID

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 **eurofins**
Environment Testing
TestAmerica

Part # 159469-434 RIT2 EXP 06/22
10/4/2021 (Rev. 1)

ORIGIN ID: LIYA (678) 966-9961
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL GA
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP TO
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TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15236

(412) 963-7058
REF: ACC - PLT WANSLEY



SATURDAY 12:00
PRIORITY OVERNIGHT

1 of 7
TRK# 1516 9332 3886
MASTER ##
X0 AGCA
PA-US 15236 PI

Uncorrected temp
Thermometer ID

3.8 °C

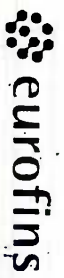
CF CF Initials CF

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



180-126367 Waybill

Do Not Lift Heavy This Tan



Environment Testing
TestAmerica

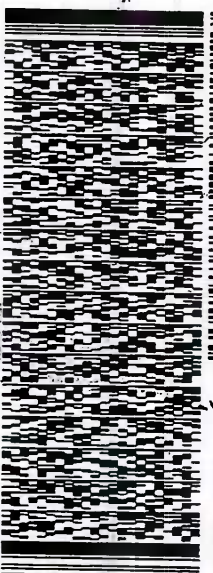
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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL, SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 27AUG21
ACTWT: 39.55 LB
CSD: 859167CAFEE3409

BILL RECIPIENT

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

(412) 868-7068
REF-ACC-PLT WANSLEY



2 of 7

MPS# 1516 9332 3897
Mstr# 1516 9332 3888

X0 AGGA

SATURDAY 12:00F
PRIORITY OVERNIGHT

15238
PA-US PIT

Uncorrected Temp
Thermometer



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FedEx Saturday Delivery

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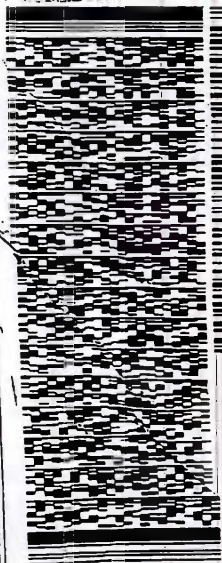
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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 27AUG21
ACTWT: 39.55 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 963-7058
REF: ACC - PLT WANSLEY



SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# 1516 9332 3901
02631
Mstr# 1516 9332 3886

0201

15238
PIT

XO AGCA

Uncorrected temp

Thermometer ID

CF

S

Initials

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FedEx Saturday Delivery

151967 02/5/21 (Rev 10/4/20)



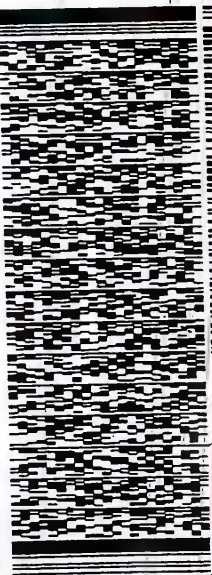
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GEORGE TAYLOR ING AMERICA ATL SC
EUROFINS TESTING AMERICA
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SH1 DATE: 27AUG21
ACT WT: 39.55 LB
CAD: 659116/CAT/E3409

BILL INCENT

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

(412) 883-7068
REF: ACC - PLT WANSLEY



5 of 7
MPS# 1516 9332 3923
02631

SATURDAY 12:00
PRIORITY OVERNIGHT

Mstr# 1516 9332 3886

0201

X0 AGCA

15238
PA-US PI

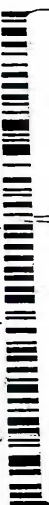
Uncorrected temp
Thermometer ID

4.6 °C

CF

Initials

PT-WA-SR-001 effective 1/9/18



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SDT
FedEx Saturday Delivery
Environment Testing
TestAmerica
15967 REV 06/22
Part # 159469-434-FIT2-EXP 06/22

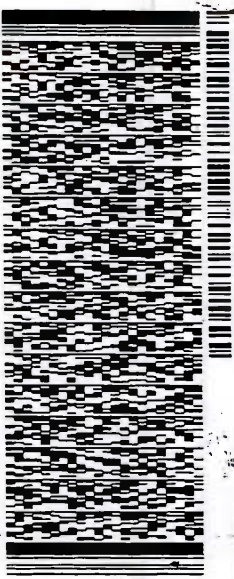
10/4/2021 (Rev. 1)

ORIGIN ID: IYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 27AUG21
ACTWT: 39.55 LB
CND: 859116/CAFE3409
BILL RECIPIENT

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

(412) 968-7068
REF: ACC - PLT WANSLEY



4 of 7 **SATURDAY 12:00P**

MPS# 1516 9332 3912 **PRIORITY OVERNIGHT**

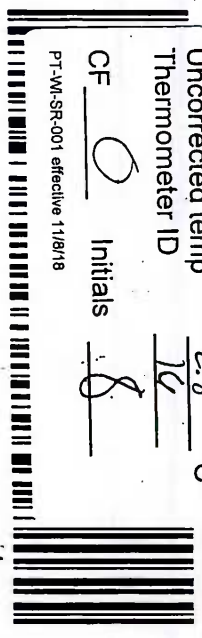
0263
Mstr# 1516 9332 3886

0201

X0 AGCA 15238
PA-US PIT

Uncorrected temp 2.8 °C
Thermometer ID 16

CF 0 Initials 8



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

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REF: 1919151

JDS



eurofins

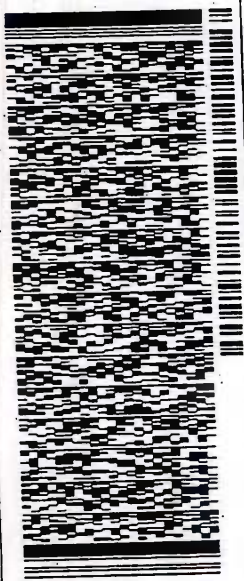
Environment Testing
TestAmerica

ORIGIN ID: LYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES- US

SHIP DATE: 27AUG21
ACTWGT: 39.55 LB
CNO: 859116/CAFE3409
BILL RECIPIENT

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

(412) 863-7088
REF: ACC - PLT WANSLEY



SATURDAY 12:00
PRIORITY OVERNIGHT

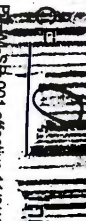
MPS# 1516 9332 3934
[0269]
Mstr# 1516 9332 3886

XO AGCA

Uncorrected temp

3 C °C

Thermometer ID



PLM-Str-001 effective 11/6/18



1523
PI

PA-US

3 C

6 of 7

3.8
C
#16

7087

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-126277-1

Login Number: 126277

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.	False	
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: 180-126277-1

Login Number: 126278

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.	False	
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: 180-126277-1

Login Number: 126364

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	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-126277-1

Login Number: 126367

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: 180-126277-2

Client Project/Site: Plant Wansley Ash Pond

For:

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

Attn: Kristen N Jurinko



Authorized for release by:
10/12/2021 7:47:37 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

LINKS

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results through
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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 Ash Pond

Job ID: 180-126277-2

Job ID: 180-126277-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-126277-2

Comments

No additional comments.

Receipt

The samples were received on 8/26/2021 10:00 AM and 8/28/2021 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 22 coolers at receipt time were 2.3° C, 2.3° C, 2.5° C, 2.5° C, 2.8° C, 2.8° C, 2.8° C, 3.1° C, 3.1° C, 3.6° C, 3.6° C, 3.7° C, 3.7° C, 3.8° C, 3.8° C, 3.8° C, 3.8° C, 4.2° C, 4.2° C, 4.6° C, 4.6° C, 4.8° C and 4.8° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): EB-1 (180-126278-2). The container labels list a sample id of EB-2, while the COC lists EB-1. The ID on the COC was used.

The containers received for the following samples did not match the information listed on the Chain-of-Custody (COC): WGWA-5 (180-126277-1), FB-1 (180-126277-2), WGWA-6 (180-126277-3), WGWA-7 (180-126277-4) and Dup-1 (180-126277-5). Two plastic nitric preserved containers were received for each of the following samples, while the COC does not list the RAD analysis. The RAD analysis was added .

RAD

Methods 903.0, 9315: radium-226 Batch 525966

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 (180-126278-3), WGWA-4 (180-126278-4), (LCS 160-525966/1-A), (LCSD 160-525966/2-A) and (MB 160-525966/23-A)

Methods 903.0, 9315: Radium-226 Batch 525800

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-5 (180-126277-1), FB-1 (180-126277-2), WGWA-6 (180-126277-3), WGWA-7 (180-126277-4), Dup-1 (180-126277-5), WGWA-2 (180-126278-1), EB-1 (180-126278-2), (LCS 160-525800/1-A) and (MB 160-525800/24-A)

Method 9315: Radium-226 prep batch 160-526227:

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-18 (180-126364-1), WGWC-13 (180-126364-2), WGWC-14A (180-126364-3), EB-2 (180-126364-4), WGWC-17 (180-126364-5), WGWC-19 (180-126364-6), Dup-2 (180-126364-7), WGWC-10 (180-126364-8), WGWC-24 (180-126364-9), Dup-3 (180-126364-10), WGWC-25 (180-126364-11), WGWC-8 (180-126364-12), WGWC-15 (180-126364-13), WGWC-20 (180-126364-14), WGWC-23 (180-126364-15), FB-3 (180-126364-16), WGWA-3 (180-126367-1), WGWC-11 (180-126367-2), WGWC-12 (180-126367-3), FB-2 (180-126367-4), (LCS 160-526227/2-A), (LCSD 160-526227/3-A) and (MB 160-526227/1-A)

Methods 904.0, 9320: Radium 228 prep batch 160-525827

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-5 (180-126277-1), FB-1 (180-126277-2), WGWA-6 (180-126277-3), WGWA-7 (180-126277-4), Dup-1 (180-126277-5), WGWA-2 (180-126278-1), EB-1 (180-126278-2), (LCS 160-525827/1-A) and (MB 160-525827/24-A)

Methods 904.0, 9320: Radium-228 prep batch 160-526057:

The radium-228 laboratory control sample (LCS) associated with the following samples recovered at 129%(LCS 160-526057/1-A). The limits in our LIMS system at (75-125%) reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of

Case Narrative

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

Job ID: 180-126277-2

Job ID: 180-126277-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

(61-138%) per method requirements. The LCS is within criteria and no further action is required.

Methods 904.0, 9320: Radium-228 prep batch 160-526057:

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 (180-126278-3), WGWA-4 (180-126278-4), (LCS 160-526057/1-A), (LCSD 160-526057/2-A) and (MB 160-526057/23-A)

Method 9320: Radium-228 prep batch 160-526246:

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-18 (180-126364-1), WGWC-13 (180-126364-2), WGWC-14A (180-126364-3), EB-2 (180-126364-4), WGWC-17 (180-126364-5), WGWC-19 (180-126364-6), Dup-2 (180-126364-7), WGWC-10 (180-126364-8), WGWC-24 (180-126364-9), Dup-3 (180-126364-10), WGWC-25 (180-126364-11), WGWC-8 (180-126364-12), WGWC-15 (180-126364-13), WGWC-20 (180-126364-14), WGWC-23 (180-126364-15), FB-3 (180-126364-16), WGWA-3 (180-126367-1), WGWC-11 (180-126367-2), WGWC-12 (180-126367-3), FB-2 (180-126367-4), (LCS 160-526246/2-A), (LCSD 160-526246/3-A) and (MB 160-526246/1-A)

Methods 904.0, 9320: Radium-228 prep batch 160-526247:

The method blank was counted on a detector that failed the daily background check high. The detector passed the background check the day prior to and after the sample count. The method blank activity is below the MDC and RL. The lab does not believe this excursion adversely affects the data. The data have been reported with this narrative. (MB 160-526247/1-A)

Methods 904.0, 9320: Radium-228 prep batch 160-526247:

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-16 (180-126367-5), EB-3 (180-126367-6), WGWC-21 (180-126367-7), WGWC-9 (180-126367-8), WGWC-22 (180-126367-9), (LCS 160-526247/2-A) and (MB 160-526247/1-A)

Method PrecSep_0: Ra-228 Batch 160-526057:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: WGWA-1 (180-126278-3) and WGWA-4 (180-126278-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Ra-228 Batch 160-526246:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: WGWA-18 (180-126364-1), WGWC-13 (180-126364-2), WGWC-14A (180-126364-3), EB-2 (180-126364-4), WGWC-17 (180-126364-5), WGWC-19 (180-126364-6), Dup-2 (180-126364-7), WGWC-10 (180-126364-8), WGWC-24 (180-126364-9), Dup-3 (180-126364-10), WGWC-25 (180-126364-11), WGWC-8 (180-126364-12), WGWC-15 (180-126364-13), WGWC-20 (180-126364-14), WGWC-23 (180-126364-15), FB-3 (180-126364-16), WGWA-3 (180-126367-1), WGWC-11 (180-126367-2), WGWC-12 (180-126367-3) and FB-2 (180-126367-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Ra-226 Batch 160-525966:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: WGWA-1 (180-126278-3) and WGWA-4 (180-126278-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Ra-226 Batch 160-526227:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: WGWA-18 (180-126364-1), WGWC-13 (180-126364-2), WGWC-14A (180-126364-3), EB-2 (180-126364-4), WGWC-17 (180-126364-5), WGWC-19 (180-126364-6), Dup-2 (180-126364-7), WGWC-10 (180-126364-8), WGWC-24 (180-126364-9), Dup-3 (180-126364-10), WGWC-25 (180-126364-11), WGWC-8 (180-126364-12), WGWC-15 (180-126364-13), WGWC-20 (180-126364-14), WGWC-23 (180-126364-15), FB-3 (180-126364-16), WGWA-3 (180-126367-1), WGWC-11 (180-126367-2), WGWC-12 (180-126367-3) and FB-2 (180-126367-4). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Definitions/Glossary

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

Job ID: 180-126277-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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 Ash Pond

Job ID: 180-126277-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	004553	11-30-21
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21
Kentucky (DW)	State	KY90125	01-01-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-21
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-21
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	03-01-22
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

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

Sample Summary

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

Job ID: 180-126277-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-126277-1	WGWA-5	Water	08/24/21 12:18	08/26/21 10:00
180-126277-2	FB-1	Water	08/24/21 13:20	08/26/21 10:00
180-126277-3	WGWA-6	Water	08/24/21 13:40	08/26/21 10:00
180-126277-4	WGWA-7	Water	08/24/21 15:10	08/26/21 10:00
180-126277-5	Dup-1	Water	08/24/21 00:00	08/26/21 10:00
180-126278-1	WGWA-2	Water	08/23/21 15:35	08/26/21 10:00
180-126278-2	EB-1	Water	08/24/21 11:00	08/26/21 10:00
180-126278-3	WGWA-1	Water	08/24/21 11:45	08/26/21 10:00
180-126278-4	WGWA-4	Water	08/24/21 14:10	08/26/21 10:00
180-126364-1	WGWA-18	Water	08/25/21 11:25	08/28/21 09:15
180-126364-2	WGWC-13	Water	08/25/21 12:45	08/28/21 09:15
180-126364-3	WGWC-14A	Water	08/25/21 13:30	08/28/21 09:15
180-126364-4	EB-2	Water	08/25/21 15:05	08/28/21 09:15
180-126364-5	WGWC-17	Water	08/25/21 14:55	08/28/21 09:15
180-126364-6	WGWC-19	Water	08/26/21 11:05	08/28/21 09:15
180-126364-7	Dup-2	Water	08/26/21 00:00	08/28/21 09:15
180-126364-8	WGWC-10	Water	08/26/21 12:35	08/28/21 09:15
180-126364-9	WGWC-24	Water	08/26/21 13:55	08/28/21 09:15
180-126364-10	Dup-3	Water	08/26/21 00:00	08/28/21 09:15
180-126364-11	WGWC-25	Water	08/26/21 15:52	08/28/21 09:15
180-126364-12	WGWC-8	Water	08/26/21 12:41	08/28/21 09:15
180-126364-13	WGWC-15	Water	08/26/21 16:14	08/28/21 09:15
180-126364-14	WGWC-20	Water	08/26/21 11:32	08/28/21 09:15
180-126364-15	WGWC-23	Water	08/26/21 14:55	08/28/21 09:15
180-126364-16	FB-3	Water	08/26/21 14:53	08/28/21 09:15
180-126367-1	WGWA-3	Water	08/25/21 10:50	08/28/21 09:15
180-126367-2	WGWC-11	Water	08/25/21 12:00	08/28/21 09:15
180-126367-3	WGWC-12	Water	08/25/21 13:30	08/28/21 09:15
180-126367-4	FB-2	Water	08/25/21 14:35	08/28/21 09:15
180-126367-5	WGWC-16	Water	08/25/21 14:50	08/28/21 09:15
180-126367-6	EB-3	Water	08/26/21 10:10	08/28/21 09:15
180-126367-7	WGWC-21	Water	08/26/21 11:30	08/28/21 09:15
180-126367-8	WGWC-9	Water	08/26/21 13:00	08/28/21 09:15
180-126367-9	WGWC-22	Water	08/26/21 15:20	08/28/21 09:15

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Method Summary

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

Job ID: 180-126277-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Lab Chronicle

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

Job ID: 180-126277-2

Client Sample ID: WGWA-5

Lab Sample ID: 180-126277-1

Date Collected: 08/24/21 12:18

Matrix: Water

Date Received: 08/26/21 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			1000.52 mL	1.0 g	525800	09/08/21 08:51	MAV	TAL SL
Total/NA	Analysis	9315		1			529910	10/04/21 19:57	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Prep	PrecSep_0			1000.52 mL	1.0 g	525827	09/08/21 10:16	MJ	TAL SL
Total/NA	Analysis	9320		1			529909	10/04/21 12:47	ANW	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			530585	10/08/21 15:38	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-1

Lab Sample ID: 180-126277-2

Date Collected: 08/24/21 13:20

Matrix: Water

Date Received: 08/26/21 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			1000.84 mL	1.0 g	525800	09/08/21 08:51	MAV	TAL SL
Total/NA	Analysis	9315		1			529910	10/04/21 19:57	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Prep	PrecSep_0			1000.84 mL	1.0 g	525827	09/08/21 10:16	MJ	TAL SL
Total/NA	Analysis	9320		1			529908	10/04/21 12:50	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			530585	10/08/21 15:38	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-6

Lab Sample ID: 180-126277-3

Date Collected: 08/24/21 13:40

Matrix: Water

Date Received: 08/26/21 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			1000.91 mL	1.0 g	525800	09/08/21 08:51	MAV	TAL SL
Total/NA	Analysis	9315		1			530098	10/05/21 07:00	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Prep	PrecSep_0			1000.91 mL	1.0 g	525827	09/08/21 10:16	MJ	TAL SL
Total/NA	Analysis	9320		1			529908	10/04/21 12:50	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			530585	10/08/21 15:38	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Lab Sample ID: 180-126277-4

Date Collected: 08/24/21 15:10

Matrix: Water

Date Received: 08/26/21 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			1000.50 mL	1.0 g	525800	09/08/21 08:51	MAV	TAL SL
Total/NA	Analysis	9315		1			530098	10/05/21 07:00	ANW	TAL SL
Instrument ID: GFPCORANGE										

Lab Chronicle

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

Job ID: 180-126277-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-126277-4

Date Collected: 08/24/21 15:10

Matrix: Water

Date Received: 08/26/21 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			1000.50 mL	1.0 g	525827	09/08/21 10:16	MJ	TAL SL
Total/NA	Analysis	9320		1			529908	10/04/21 12:51	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			530585	10/08/21 15:38	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: Dup-1

Lab Sample ID: 180-126277-5

Date Collected: 08/24/21 00:00

Matrix: Water

Date Received: 08/26/21 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			1000.44 mL	1.0 g	525800	09/08/21 08:51	MAV	TAL SL
Total/NA	Analysis	9315		1			530098	10/05/21 07:01	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Prep	PrecSep_0			1000.44 mL	1.0 g	525827	09/08/21 10:16	MJ	TAL SL
Total/NA	Analysis	9320		1			529908	10/04/21 12:51	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			530585	10/08/21 15:38	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-2

Lab Sample ID: 180-126278-1

Date Collected: 08/23/21 15:35

Matrix: Water

Date Received: 08/26/21 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			1000.11 mL	1.0 g	525800	09/08/21 08:51	MAV	TAL SL
Total/NA	Analysis	9315		1			530098	10/05/21 07:01	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Prep	PrecSep_0			1000.11 mL	1.0 g	525827	09/08/21 10:16	MJ	TAL SL
Total/NA	Analysis	9320		1			529908	10/04/21 12:51	ANW	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			530585	10/08/21 15:38	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1

Lab Sample ID: 180-126278-2

Date Collected: 08/24/21 11:00

Matrix: Water

Date Received: 08/26/21 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			1000.62 mL	1.0 g	525800	09/08/21 08:51	MAV	TAL SL
Total/NA	Analysis	9315		1	1.0 mL	1.0 mL	530098	10/05/21 07:01	ANW	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Prep	PrecSep_0			1000.62 mL	1.0 g	525827	09/08/21 10:16	MJ	TAL SL
Total/NA	Analysis	9320		1			529908	10/04/21 12:51	ANW	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-126277-2

Client Sample ID: EB-1

Lab Sample ID: 180-126278-2

Date Collected: 08/24/21 11:00

Matrix: Water

Date Received: 08/26/21 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	Ra226_Ra228		1			530585	10/08/21 15:38	EMH	TAL SL

Client Sample ID: WGWA-1

Lab Sample ID: 180-126278-3

Date Collected: 08/24/21 11:45

Matrix: Water

Date Received: 08/26/21 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			1000.4 mL	1.0 g	525966	09/08/21 15:41	MAV	TAL SL
Total/NA	Analysis	9315		1			529904	10/04/21 17:48	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.4 mL	1.0 g	526057	09/09/21 09:09	MJ	TAL SL
Total/NA	Analysis	9320		1			530078	10/04/21 12:30	ANW	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			530583	10/08/21 15:34	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-4

Lab Sample ID: 180-126278-4

Date Collected: 08/24/21 14:10

Matrix: Water

Date Received: 08/26/21 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			1000.0 mL	1.0 g	525966	09/08/21 15:41	MAV	TAL SL
Total/NA	Analysis	9315		1			529904	10/04/21 17:48	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.0 mL	1.0 g	526057	09/09/21 09:09	MJ	TAL SL
Total/NA	Analysis	9320		1			530078	10/04/21 12:30	ANW	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			530583	10/08/21 15:34	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-18

Lab Sample ID: 180-126364-1

Date Collected: 08/25/21 11:25

Matrix: Water

Date Received: 08/28/21 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			1000.15 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530401	10/06/21 16:43	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.15 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:46	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-126277-2

Client Sample ID: WGWC-13

Lab Sample ID: 180-126364-2

Date Collected: 08/25/21 12:45

Matrix: Water

Date Received: 08/28/21 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			1004.01 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530401	10/06/21 16:43	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1004.01 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:46	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-14A

Lab Sample ID: 180-126364-3

Date Collected: 08/25/21 13:30

Matrix: Water

Date Received: 08/28/21 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			1000.84 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530401	10/06/21 16:43	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.84 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:46	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-2

Lab Sample ID: 180-126364-4

Date Collected: 08/25/21 15:05

Matrix: Water

Date Received: 08/28/21 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			1001.46 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530401	10/06/21 16:44	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1001.46 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:46	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-17

Lab Sample ID: 180-126364-5

Date Collected: 08/25/21 14:55

Matrix: Water

Date Received: 08/28/21 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			1003.76 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530401	10/06/21 16:44	SCB	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

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

Job ID: 180-126277-2

Client Sample ID: WGWC-17

Lab Sample ID: 180-126364-5

Date Collected: 08/25/21 14:55

Matrix: Water

Date Received: 08/28/21 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			1003.76 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:47	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-19

Lab Sample ID: 180-126364-6

Date Collected: 08/26/21 11:05

Matrix: Water

Date Received: 08/28/21 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			1007.86 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530401	10/06/21 16:44	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1007.86 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:48	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: Dup-2

Lab Sample ID: 180-126364-7

Date Collected: 08/26/21 00:00

Matrix: Water

Date Received: 08/28/21 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			1003.63 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530401	10/06/21 16:45	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1003.63 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:48	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10

Lab Sample ID: 180-126364-8

Date Collected: 08/26/21 12:35

Matrix: Water

Date Received: 08/28/21 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			1005.04 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530401	10/06/21 16:45	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1005.04 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:48	SCB	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

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

Job ID: 180-126277-2

Client Sample ID: WGWC-10

Lab Sample ID: 180-126364-8

Date Collected: 08/26/21 12:35

Matrix: Water

Date Received: 08/28/21 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			531332	10/12/21 18:42	EMH	TAL SL

Client Sample ID: WGWC-24

Lab Sample ID: 180-126364-9

Date Collected: 08/26/21 13:55

Matrix: Water

Date Received: 08/28/21 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			1003.30 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530401	10/06/21 16:45	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1003.30 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:48	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: Dup-3

Lab Sample ID: 180-126364-10

Date Collected: 08/26/21 00:00

Matrix: Water

Date Received: 08/28/21 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			1003.40 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530401	10/06/21 16:45	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1003.40 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:48	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-25

Lab Sample ID: 180-126364-11

Date Collected: 08/26/21 15:52

Matrix: Water

Date Received: 08/28/21 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			1005.53 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530401	10/06/21 16:46	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1005.53 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:50	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-126277-2

Client Sample ID: WGWC-8

Lab Sample ID: 180-126364-12

Date Collected: 08/26/21 12:41

Matrix: Water

Date Received: 08/28/21 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			1005.26 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530401	10/06/21 16:46	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1005.26 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:51	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Lab Sample ID: 180-126364-13

Date Collected: 08/26/21 16:14

Matrix: Water

Date Received: 08/28/21 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			1003.79 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530401	10/06/21 16:46	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1003.79 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:51	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-20

Lab Sample ID: 180-126364-14

Date Collected: 08/26/21 11:32

Matrix: Water

Date Received: 08/28/21 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			1002.28 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530402	10/06/21 16:34	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1002.28 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:51	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-23

Lab Sample ID: 180-126364-15

Date Collected: 08/26/21 14:55

Matrix: Water

Date Received: 08/28/21 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			1001.45 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530402	10/06/21 16:35	SCB	TAL SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

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

Job ID: 180-126277-2

Client Sample ID: WGWC-23

Lab Sample ID: 180-126364-15

Date Collected: 08/26/21 14:55

Matrix: Water

Date Received: 08/28/21 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			1001.45 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:51	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-3

Lab Sample ID: 180-126364-16

Date Collected: 08/26/21 14:53

Matrix: Water

Date Received: 08/28/21 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			1006.40 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530402	10/06/21 16:35	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1006.40 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530403	10/06/21 12:51	SCB	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3

Lab Sample ID: 180-126367-1

Date Collected: 08/25/21 10:50

Matrix: Water

Date Received: 08/28/21 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			1001.41 mL	1.0 g	526227	09/09/21 17:26	RER	TAL SL
Total/NA	Analysis	9315		1			530402	10/06/21 16:36	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1001.41 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530401	10/06/21 12:43	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-11

Lab Sample ID: 180-126367-2

Date Collected: 08/25/21 12:00

Matrix: Water

Date Received: 08/28/21 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			1005.01 mL	1.0 g	526227	09/09/21 17:30	RER	TAL SL
Total/NA	Analysis	9315		1			530402	10/06/21 16:36	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1005.01 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530401	10/06/21 12:43	SCB	TAL SL
Instrument ID: GFPCBLUE										

Lab Chronicle

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

Job ID: 180-126277-2

Client Sample ID: WGWC-11

Lab Sample ID: 180-126367-2

Date Collected: 08/25/21 12:00

Matrix: Water

Date Received: 08/28/21 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			531332	10/12/21 18:42	EMH	TAL SL

Client Sample ID: WGWC-12

Lab Sample ID: 180-126367-3

Date Collected: 08/25/21 13:30

Matrix: Water

Date Received: 08/28/21 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			1005.82 mL	1.0 g	526227	09/09/21 17:30	RER	TAL SL
Total/NA	Analysis	9315		1			530402	10/06/21 16:37	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1005.82 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530401	10/06/21 12:44	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-2

Lab Sample ID: 180-126367-4

Date Collected: 08/25/21 14:35

Matrix: Water

Date Received: 08/28/21 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			1000.84 mL	1.0 g	526227	09/09/21 17:30	RER	TAL SL
Total/NA	Analysis	9315		1			530402	10/06/21 16:37	SCB	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.84 mL	1.0 g	526246	09/10/21 09:01	MJ	TAL SL
Total/NA	Analysis	9320		1			530401	10/06/21 12:44	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			531332	10/12/21 18:42	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-16

Lab Sample ID: 180-126367-5

Date Collected: 08/25/21 14:50

Matrix: Water

Date Received: 08/28/21 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			1001.00 mL	1.0 g	526228	09/09/21 17:37	MLK	TAL SL
Total/NA	Analysis	9315		1			530631	10/11/21 21:22	EMH	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1001.00 mL	1.0 g	526247	09/10/21 09:05	MJ	TAL SL
Total/NA	Analysis	9320		1	1.0 mL	1.0 mL	530525	10/07/21 12:29	SCB	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			531331	10/12/21 18:39	EMH	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-126277-2

Client Sample ID: EB-3

Lab Sample ID: 180-126367-6

Date Collected: 08/26/21 10:10

Matrix: Water

Date Received: 08/28/21 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			1000.12 mL	1.0 g	526228	09/09/21 17:37	MLK	TAL SL
Total/NA	Analysis	9315		1			530631	10/11/21 21:22	EMH	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.12 mL	1.0 g	526247	09/10/21 09:05	MJ	TAL SL
Total/NA	Analysis	9320		1			530479	10/07/21 12:42	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531331	10/12/21 18:39	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-21

Lab Sample ID: 180-126367-7

Date Collected: 08/26/21 11:30

Matrix: Water

Date Received: 08/28/21 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			1002.10 mL	1.0 g	526228	09/09/21 17:37	MLK	TAL SL
Total/NA	Analysis	9315		1			530631	10/11/21 21:22	EMH	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1002.10 mL	1.0 g	526247	09/10/21 09:05	MJ	TAL SL
Total/NA	Analysis	9320		1			530479	10/07/21 12:43	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531331	10/12/21 18:39	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-9

Lab Sample ID: 180-126367-8

Date Collected: 08/26/21 13:00

Matrix: Water

Date Received: 08/28/21 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			1000.21 mL	1.0 g	526228	09/09/21 17:37	MLK	TAL SL
Total/NA	Analysis	9315		1			530631	10/11/21 21:22	EMH	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.21 mL	1.0 g	526247	09/10/21 09:05	MJ	TAL SL
Total/NA	Analysis	9320		1			530479	10/07/21 12:43	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531331	10/12/21 18:39	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-22

Lab Sample ID: 180-126367-9

Date Collected: 08/26/21 15:20

Matrix: Water

Date Received: 08/28/21 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			1000.05 mL	1.0 g	526228	09/09/21 17:37	MLK	TAL SL
Total/NA	Analysis	9315		1	1.0 mL	1.0 mL	530631	10/11/21 21:25	EMH	TAL SL
Instrument ID: GFPCRED										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-126277-2

Client Sample ID: WGWC-22

Lab Sample ID: 180-126367-9

Date Collected: 08/26/21 15:20

Matrix: Water

Date Received: 08/28/21 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			1000.05 mL	1.0 g	526247	09/10/21 09:05	MJ	TAL SL
Total/NA	Analysis	9320		1			530479	10/07/21 12:43	ANW	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			531331	10/12/21 18:39	EMH	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

- MAV = Melesa Viehmann
- MJ = Mary Johns
- MLK = Micha Korrinhizer
- RER = Rhonda Ridenhower

Batch Type: Analysis

- ANW = Amber Woods
- EMH = Elizabeth Hoerchler
- FLC = Fernando Cruz
- SCB = Sarah Bernsen



Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWA-5

Lab Sample ID: 180-126277-1

Date Collected: 08/24/21 12:18

Matrix: Water

Date Received: 08/26/21 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	0.218	U	0.239	0.240	1.00	0.386	pCi/L	09/08/21 08:51	10/04/21 19:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		40 - 110					09/08/21 08:51	10/04/21 19:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00761	U	0.287	0.287	1.00	0.510	pCi/L	09/08/21 10:16	10/04/21 12:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		40 - 110					09/08/21 10:16	10/04/21 12:47	1
Y Carrier	81.1		40 - 110					09/08/21 10:16	10/04/21 12:47	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.226	U	0.373	0.374	2.00	0.510	pCi/L		10/08/21 15:38	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: FB-1

Lab Sample ID: 180-126277-2

Date Collected: 08/24/21 13:20

Matrix: Water

Date Received: 08/26/21 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	-0.0226	U	0.202	0.202	1.00	0.408	pCi/L	09/08/21 08:51	10/04/21 19:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					09/08/21 08:51	10/04/21 19:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.852		0.331	0.340	1.00	0.468	pCi/L	09/08/21 10:16	10/04/21 12:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					09/08/21 10:16	10/04/21 12:50	1
Y Carrier	88.2		40 - 110					09/08/21 10:16	10/04/21 12:50	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.829		0.388	0.395	2.00	0.468	pCi/L		10/08/21 15:38	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWA-6

Lab Sample ID: 180-126277-3

Date Collected: 08/24/21 13:40

Matrix: Water

Date Received: 08/26/21 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	3.52		0.546	0.631	1.00	0.347	pCi/L	09/08/21 08:51	10/05/21 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					09/08/21 08:51	10/05/21 07:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.26		0.611	0.840	1.00	0.442	pCi/L	09/08/21 10:16	10/04/21 12:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					09/08/21 10:16	10/04/21 12:50	1
Y Carrier	83.4		40 - 110					09/08/21 10:16	10/04/21 12:50	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	9.78		0.819	1.05	2.00	0.442	pCi/L		10/08/21 15:38	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-126277-4

Date Collected: 08/24/21 15:10

Matrix: Water

Date Received: 08/26/21 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	-0.0388	U	0.164	0.164	1.00	0.342	pCi/L	09/08/21 08:51	10/05/21 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					09/08/21 08:51	10/05/21 07:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.504	U	0.343	0.346	1.00	0.536	pCi/L	09/08/21 10:16	10/04/21 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					09/08/21 10:16	10/04/21 12:51	1
Y Carrier	82.2		40 - 110					09/08/21 10:16	10/04/21 12:51	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	0.465	U	0.380	0.383	2.00	0.536	pCi/L		10/08/21 15:38	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: Dup-1

Lab Sample ID: 180-126277-5

Date Collected: 08/24/21 00:00

Matrix: Water

Date Received: 08/26/21 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	0.213	U	0.203	0.204	1.00	0.317	pCi/L	09/08/21 08:51	10/05/21 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					09/08/21 08:51	10/05/21 07:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.534		0.313	0.316	1.00	0.475	pCi/L	09/08/21 10:16	10/04/21 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					09/08/21 10:16	10/04/21 12:51	1
Y Carrier	87.9		40 - 110					09/08/21 10:16	10/04/21 12:51	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	0.747		0.373	0.376	2.00	0.475	pCi/L		10/08/21 15:38	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-126278-1

Date Collected: 08/23/21 15:35

Matrix: Water

Date Received: 08/26/21 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	0.0226	U	0.195	0.195	1.00	0.379	pCi/L	09/08/21 08:51	10/05/21 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					09/08/21 08:51	10/05/21 07:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.609		0.289	0.295	1.00	0.417	pCi/L	09/08/21 10:16	10/04/21 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					09/08/21 10:16	10/04/21 12:51	1
Y Carrier	87.1		40 - 110					09/08/21 10:16	10/04/21 12:51	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	0.632		0.349	0.354	2.00	0.417	pCi/L		10/08/21 15:38	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: EB-1

Lab Sample ID: 180-126278-2

Date Collected: 08/24/21 11:00

Matrix: Water

Date Received: 08/26/21 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	0.00933	U	0.179	0.179	1.00	0.348	pCi/L	09/08/21 08:51	10/05/21 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					09/08/21 08:51	10/05/21 07:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.480		0.294	0.297	1.00	0.449	pCi/L	09/08/21 10:16	10/04/21 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					09/08/21 10:16	10/04/21 12:51	1
Y Carrier	86.4		40 - 110					09/08/21 10:16	10/04/21 12:51	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	0.489		0.344	0.347	2.00	0.449	pCi/L		10/08/21 15:38	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-126278-3

Date Collected: 08/24/21 11:45

Matrix: Water

Date Received: 08/26/21 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	0.378		0.237	0.240	1.00	0.318	pCi/L	09/08/21 15:41	10/04/21 17:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					09/08/21 15:41	10/04/21 17:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.220	U	0.284	0.285	1.00	0.472	pCi/L	09/09/21 09:09	10/04/21 12:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					09/09/21 09:09	10/04/21 12:30	1
Y Carrier	80.4		40 - 110					09/09/21 09:09	10/04/21 12:30	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	0.598		0.370	0.373	2.00	0.472	pCi/L		10/08/21 15:34	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWA-4

Lab Sample ID: 180-126278-4

Date Collected: 08/24/21 14:10

Matrix: Water

Date Received: 08/26/21 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	0.546		0.321	0.325	1.00	0.419	pCi/L	09/08/21 15:41	10/04/21 17:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.6		40 - 110					09/08/21 15:41	10/04/21 17:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.06		0.471	0.481	1.00	0.688	pCi/L	09/09/21 09:09	10/04/21 12:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.6		40 - 110					09/09/21 09:09	10/04/21 12:30	1
Y Carrier	78.9		40 - 110					09/09/21 09:09	10/04/21 12:30	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	1.61		0.570	0.581	2.00	0.688	pCi/L		10/08/21 15:34	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWA-18

Lab Sample ID: 180-126364-1

Date Collected: 08/25/21 11:25

Matrix: Water

Date Received: 08/28/21 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	0.0729	U	0.223	0.223	1.00	0.409	pCi/L	09/09/21 17:26	10/06/21 16:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					09/09/21 17:26	10/06/21 16:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.572		0.302	0.307	1.00	0.455	pCi/L	09/10/21 09:01	10/06/21 12:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					09/10/21 09:01	10/06/21 12:46	1
Y Carrier	84.9		40 - 110					09/10/21 09:01	10/06/21 12:46	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.645		0.375	0.379	2.00	0.455	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-13

Lab Sample ID: 180-126364-2

Date Collected: 08/25/21 12:45

Matrix: Water

Date Received: 08/28/21 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	0.172	U	0.253	0.253	1.00	0.430	pCi/L	09/09/21 17:26	10/06/21 16:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/09/21 17:26	10/06/21 16:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.741		0.315	0.323	1.00	0.452	pCi/L	09/10/21 09:01	10/06/21 12:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/10/21 09:01	10/06/21 12:46	1
Y Carrier	83.0		40 - 110					09/10/21 09:01	10/06/21 12:46	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.913		0.404	0.410	2.00	0.452	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-14A

Lab Sample ID: 180-126364-3

Date Collected: 08/25/21 13:30

Matrix: Water

Date Received: 08/28/21 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	0.310	U	0.278	0.279	1.00	0.432	pCi/L	09/09/21 17:26	10/06/21 16:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		40 - 110					09/09/21 17:26	10/06/21 16:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.395		0.256	0.259	1.00	0.392	pCi/L	09/10/21 09:01	10/06/21 12:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		40 - 110					09/10/21 09:01	10/06/21 12:46	1
Y Carrier	83.0		40 - 110					09/10/21 09:01	10/06/21 12:46	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.705		0.378	0.381	2.00	0.432	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: EB-2

Lab Sample ID: 180-126364-4

Date Collected: 08/25/21 15:05

Matrix: Water

Date Received: 08/28/21 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	0.118	U	0.268	0.268	1.00	0.475	pCi/L	09/09/21 17:26	10/06/21 16:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					09/09/21 17:26	10/06/21 16:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.207	U	0.241	0.242	1.00	0.397	pCi/L	09/10/21 09:01	10/06/21 12:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					09/10/21 09:01	10/06/21 12:46	1
Y Carrier	82.6		40 - 110					09/10/21 09:01	10/06/21 12:46	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.325	U	0.360	0.361	2.00	0.475	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-17

Lab Sample ID: 180-126364-5

Date Collected: 08/25/21 14:55

Matrix: Water

Date Received: 08/28/21 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	0.110	U	0.244	0.244	1.00	0.436	pCi/L	09/09/21 17:26	10/06/21 16:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					09/09/21 17:26	10/06/21 16:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.454	U	0.300	0.303	1.00	0.467	pCi/L	09/10/21 09:01	10/06/21 12:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					09/10/21 09:01	10/06/21 12:47	1
Y Carrier	86.0		40 - 110					09/10/21 09:01	10/06/21 12:47	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.565		0.387	0.389	2.00	0.467	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-19

Lab Sample ID: 180-126364-6

Date Collected: 08/26/21 11:05

Matrix: Water

Date Received: 08/28/21 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	0.196	U	0.235	0.235	1.00	0.386	pCi/L	09/09/21 17:26	10/06/21 16:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					09/09/21 17:26	10/06/21 16:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.600		0.285	0.291	1.00	0.416	pCi/L	09/10/21 09:01	10/06/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					09/10/21 09:01	10/06/21 12:48	1
Y Carrier	84.9		40 - 110					09/10/21 09:01	10/06/21 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	0.796		0.369	0.374	2.00	0.416	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: Dup-2
Date Collected: 08/26/21 00:00
Date Received: 08/28/21 09:15

Lab Sample ID: 180-126364-7
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0717	U	0.212	0.212	1.00	0.389	pCi/L	09/09/21 17:26	10/06/21 16:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		40 - 110					09/09/21 17:26	10/06/21 16:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.641		0.311	0.317	1.00	0.462	pCi/L	09/10/21 09:01	10/06/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		40 - 110					09/10/21 09:01	10/06/21 12:48	1
Y Carrier	84.9		40 - 110					09/10/21 09:01	10/06/21 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	0.712		0.376	0.381	2.00	0.462	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-10

Lab Sample ID: 180-126364-8

Date Collected: 08/26/21 12:35

Matrix: Water

Date Received: 08/28/21 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	0.186	U	0.264	0.265	1.00	0.447	pCi/L	09/09/21 17:26	10/06/21 16:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/09/21 17:26	10/06/21 16:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.135	U	0.235	0.236	1.00	0.400	pCi/L	09/10/21 09:01	10/06/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/10/21 09:01	10/06/21 12:48	1
Y Carrier	83.7		40 - 110					09/10/21 09:01	10/06/21 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	0.321	U	0.353	0.355	2.00	0.447	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-24

Lab Sample ID: 180-126364-9

Date Collected: 08/26/21 13:55

Matrix: Water

Date Received: 08/28/21 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	0.560		0.284	0.289	1.00	0.349	pCi/L	09/09/21 17:26	10/06/21 16:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					09/09/21 17:26	10/06/21 16:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.07		0.332	0.346	1.00	0.436	pCi/L	09/10/21 09:01	10/06/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					09/10/21 09:01	10/06/21 12:48	1
Y Carrier	83.7		40 - 110					09/10/21 09:01	10/06/21 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	1.63		0.437	0.451	2.00	0.436	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: Dup-3
 Date Collected: 08/26/21 00:00
 Date Received: 08/28/21 09:15

Lab Sample ID: 180-126364-10
 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	0.461		0.294	0.297	1.00	0.416	pCi/L	09/09/21 17:26	10/06/21 16:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					09/09/21 17:26	10/06/21 16:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.834		0.301	0.310	1.00	0.411	pCi/L	09/10/21 09:01	10/06/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					09/10/21 09:01	10/06/21 12:48	1
Y Carrier	86.0		40 - 110					09/10/21 09:01	10/06/21 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	1.30		0.421	0.429	2.00	0.416	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-25

Lab Sample ID: 180-126364-11

Date Collected: 08/26/21 15:52

Matrix: Water

Date Received: 08/28/21 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	0.444	U	0.315	0.318	1.00	0.464	pCi/L	09/09/21 17:26	10/06/21 16:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		40 - 110					09/09/21 17:26	10/06/21 16:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.678		0.271	0.278	1.00	0.374	pCi/L	09/10/21 09:01	10/06/21 12:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		40 - 110					09/10/21 09:01	10/06/21 12:50	1
Y Carrier	83.4		40 - 110					09/10/21 09:01	10/06/21 12:50	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.12		0.416	0.422	2.00	0.464	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-8

Lab Sample ID: 180-126364-12

Date Collected: 08/26/21 12:41

Matrix: Water

Date Received: 08/28/21 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	0.669		0.354	0.359	1.00	0.477	pCi/L	09/09/21 17:26	10/06/21 16:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					09/09/21 17:26	10/06/21 16:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.20		0.370	0.421	1.00	0.345	pCi/L	09/10/21 09:01	10/06/21 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.8		40 - 110					09/10/21 09:01	10/06/21 12:51	1
Y Carrier	86.4		40 - 110					09/10/21 09:01	10/06/21 12:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.87		0.512	0.553	2.00	0.477	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-15

Lab Sample ID: 180-126364-13

Date Collected: 08/26/21 16:14

Matrix: Water

Date Received: 08/28/21 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	0.361	U	0.334	0.336	1.00	0.527	pCi/L	09/09/21 17:26	10/06/21 16:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					09/09/21 17:26	10/06/21 16:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.318	U	0.280	0.282	1.00	0.450	pCi/L	09/10/21 09:01	10/06/21 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					09/10/21 09:01	10/06/21 12:51	1
Y Carrier	84.9		40 - 110					09/10/21 09:01	10/06/21 12:51	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	0.678		0.436	0.439	2.00	0.527	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-20

Lab Sample ID: 180-126364-14

Date Collected: 08/26/21 11:32

Matrix: Water

Date Received: 08/28/21 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	0.485		0.292	0.295	1.00	0.407	pCi/L	09/09/21 17:26	10/06/21 16:34	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	90.8		40 - 110					09/09/21 17:26	10/06/21 16:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.12		0.312	0.329	1.00	0.385	pCi/L	09/10/21 09:01	10/06/21 12:51	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	90.8		40 - 110					09/10/21 09:01	10/06/21 12:51	1
<i>Y Carrier</i>	85.2		40 - 110					09/10/21 09:01	10/06/21 12:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.60		0.427	0.442	2.00	0.407	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-23

Lab Sample ID: 180-126364-15

Date Collected: 08/26/21 14:55

Matrix: Water

Date Received: 08/28/21 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	0.336	U	0.280	0.282	1.00	0.430	pCi/L	09/09/21 17:26	10/06/21 16:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		40 - 110					09/09/21 17:26	10/06/21 16:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.368	U	0.245	0.248	1.00	0.377	pCi/L	09/10/21 09:01	10/06/21 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		40 - 110					09/10/21 09:01	10/06/21 12:51	1
Y Carrier	84.9		40 - 110					09/10/21 09:01	10/06/21 12:51	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	0.703		0.372	0.376	2.00	0.430	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: FB-3

Lab Sample ID: 180-126364-16

Date Collected: 08/26/21 14:53

Matrix: Water

Date Received: 08/28/21 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	0.335	U	0.298	0.299	1.00	0.464	pCi/L	09/09/21 17:26	10/06/21 16:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					09/09/21 17:26	10/06/21 16:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.344	U	0.277	0.279	1.00	0.439	pCi/L	09/10/21 09:01	10/06/21 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					09/10/21 09:01	10/06/21 12:51	1
Y Carrier	85.2		40 - 110					09/10/21 09:01	10/06/21 12:51	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	0.679		0.407	0.409	2.00	0.464	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWA-3

Lab Sample ID: 180-126367-1

Date Collected: 08/25/21 10:50

Matrix: Water

Date Received: 08/28/21 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	0.0179	U	0.199	0.199	1.00	0.387	pCi/L	09/09/21 17:26	10/06/21 16:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/09/21 17:26	10/06/21 16:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.139	U	0.240	0.240	1.00	0.450	pCi/L	09/10/21 09:01	10/06/21 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/10/21 09:01	10/06/21 12:43	1
Y Carrier	84.9		40 - 110					09/10/21 09:01	10/06/21 12:43	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	-0.121	U	0.312	0.312	2.00	0.450	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-11

Lab Sample ID: 180-126367-2

Date Collected: 08/25/21 12:00

Matrix: Water

Date Received: 08/28/21 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	-0.00827	U	0.199	0.199	1.00	0.392	pCi/L	09/09/21 17:30	10/06/21 16:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/09/21 17:30	10/06/21 16:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.409		0.259	0.262	1.00	0.398	pCi/L	09/10/21 09:01	10/06/21 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/10/21 09:01	10/06/21 12:43	1
Y Carrier	85.2		40 - 110					09/10/21 09:01	10/06/21 12:43	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	0.401		0.327	0.329	2.00	0.398	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-12

Lab Sample ID: 180-126367-3

Date Collected: 08/25/21 13:30

Matrix: Water

Date Received: 08/28/21 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	0.260	U	0.269	0.270	1.00	0.430	pCi/L	09/09/21 17:30	10/06/21 16:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		40 - 110					09/09/21 17:30	10/06/21 16:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.183	U	0.273	0.273	1.00	0.457	pCi/L	09/10/21 09:01	10/06/21 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		40 - 110					09/10/21 09:01	10/06/21 12:44	1
Y Carrier	86.0		40 - 110					09/10/21 09:01	10/06/21 12:44	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	0.443	U	0.383	0.384	2.00	0.457	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: FB-2

Lab Sample ID: 180-126367-4

Date Collected: 08/25/21 14:35

Matrix: Water

Date Received: 08/28/21 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	0.0625	U	0.215	0.216	1.00	0.398	pCi/L	09/09/21 17:30	10/06/21 16:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.7		40 - 110					09/09/21 17:30	10/06/21 16:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.626		0.290	0.295	1.00	0.429	pCi/L	09/10/21 09:01	10/06/21 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.7		40 - 110					09/10/21 09:01	10/06/21 12:44	1
Y Carrier	90.5		40 - 110					09/10/21 09:01	10/06/21 12:44	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	0.688		0.361	0.366	2.00	0.429	pCi/L		10/12/21 18:42	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-16

Lab Sample ID: 180-126367-5

Date Collected: 08/25/21 14:50

Matrix: Water

Date Received: 08/28/21 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	0.0690	U	0.0916	0.0918	1.00	0.153	pCi/L	09/09/21 17:37	10/11/21 21:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					09/09/21 17:37	10/11/21 21:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.449		0.267	0.270	1.00	0.405	pCi/L	09/10/21 09:05	10/07/21 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					09/10/21 09:05	10/07/21 12:29	1
Y Carrier	82.2		40 - 110					09/10/21 09:05	10/07/21 12:29	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	0.518		0.282	0.285	2.00	0.405	pCi/L		10/12/21 18:39	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: EB-3

Lab Sample ID: 180-126367-6

Date Collected: 08/26/21 10:10

Matrix: Water

Date Received: 08/28/21 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	0.0672	U	0.0892	0.0894	1.00	0.149	pCi/L	09/09/21 17:37	10/11/21 21:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					09/09/21 17:37	10/11/21 21:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.168	U	0.244	0.244	1.00	0.409	pCi/L	09/10/21 09:05	10/07/21 12:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					09/10/21 09:05	10/07/21 12:42	1
Y Carrier	82.6		40 - 110					09/10/21 09:05	10/07/21 12:42	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.235	U	0.260	0.260	2.00	0.409	pCi/L		10/12/21 18:39	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-21

Lab Sample ID: 180-126367-7

Date Collected: 08/26/21 11:30

Matrix: Water

Date Received: 08/28/21 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		0.125	0.128	1.00	0.139	pCi/L	09/09/21 17:37	10/11/21 21:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					09/09/21 17:37	10/11/21 21:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.880		0.310	0.320	1.00	0.423	pCi/L	09/10/21 09:05	10/07/21 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					09/10/21 09:05	10/07/21 12:43	1
Y Carrier	80.7		40 - 110					09/10/21 09:05	10/07/21 12:43	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	1.17		0.334	0.345	2.00	0.423	pCi/L		10/12/21 18:39	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-9

Lab Sample ID: 180-126367-8

Date Collected: 08/26/21 13:00

Matrix: Water

Date Received: 08/28/21 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	0.0757	U	0.0807	0.0810	1.00	0.127	pCi/L	09/09/21 17:37	10/11/21 21:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					09/09/21 17:37	10/11/21 21:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.606		0.275	0.281	1.00	0.394	pCi/L	09/10/21 09:05	10/07/21 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					09/10/21 09:05	10/07/21 12:43	1
Y Carrier	84.1		40 - 110					09/10/21 09:05	10/07/21 12:43	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	0.681		0.287	0.292	2.00	0.394	pCi/L		10/12/21 18:39	1

Client Sample Results

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

Job ID: 180-126277-2

Client Sample ID: WGWC-22

Lab Sample ID: 180-126367-9

Date Collected: 08/26/21 15:20

Matrix: Water

Date Received: 08/28/21 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	0.108	U	0.0931	0.0936	1.00	0.139	pCi/L	09/09/21 17:37	10/11/21 21:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/09/21 17:37	10/11/21 21:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.44		0.445	0.546	1.00	0.373	pCi/L	09/10/21 09:05	10/07/21 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/10/21 09:05	10/07/21 12:43	1
Y Carrier	83.7		40 - 110					09/10/21 09:05	10/07/21 12:43	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	3.54		0.455	0.554	2.00	0.373	pCi/L		10/12/21 18:39	1

QC Sample Results

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

Job ID: 180-126277-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-525800/24-A
Matrix: Water
Analysis Batch: 530098

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525800

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.2302	U	0.203	0.204	1.00	0.311	pCi/L	09/08/21 08:51	10/05/21 07:01	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					09/08/21 08:51	10/05/21 07:01	1
	94.6									

Lab Sample ID: LCS 160-525800/1-A
Matrix: Water
Analysis Batch: 529904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525800

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-226	11.3	10.51		1.33	1.00	0.331	pCi/L	93	75 - 125
Carrier	LCS		Limits						
Ba Carrier	%Yield	LCS Qualifier	40 - 110						
	93.4								

Lab Sample ID: MB 160-525966/23-A
Matrix: Water
Analysis Batch: 529910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525966

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.2989	U	0.268	0.269	1.00	0.415	pCi/L	09/08/21 15:41	10/04/21 17:56	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					09/08/21 15:41	10/04/21 17:56	1
	92.8									

Lab Sample ID: LCS 160-525966/1-A
Matrix: Water
Analysis Batch: 529904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525966

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-226	11.3	10.41		1.40	1.00	0.411	pCi/L	92	75 - 125
Carrier	LCS		Limits						
Ba Carrier	%Yield	LCS Qualifier	40 - 110						
	75.2								

Lab Sample ID: LCSD 160-525966/2-A
Matrix: Water
Analysis Batch: 529904

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 525966

Analyte	Spike Added	LCSD	LCSD	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER
		Result	Qual	Uncert. (2σ+/-)							Limit
Radium-226	11.3	11.00		1.42	1.00	0.342	pCi/L	97	75 - 125	0.21	1

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QC Sample Results

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

Job ID: 180-126277-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCSD 160-525966/2-A
Matrix: Water
Analysis Batch: 529904

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 525966

	<i>LCS</i>	<i>D</i>	
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>
Ba Carrier	87.5		40 - 110

Lab Sample ID: MB 160-526227/1-A
Matrix: Water
Analysis Batch: 530401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526227

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03627	U	0.208	0.208	1.00	0.401	pCi/L	09/09/21 17:26	10/06/21 16:41	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	85.2		40 - 110					09/09/21 17:26	10/06/21 16:41	1

Lab Sample ID: LCS 160-526227/2-A
Matrix: Water
Analysis Batch: 530401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526227

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.67		1.42	1.00	0.452	pCi/L	94	75 - 125
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>						
Ba Carrier	85.4		40 - 110						

Lab Sample ID: LCSD 160-526227/3-A
Matrix: Water
Analysis Batch: 530401

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 526227

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	10.48		1.37	1.00	0.384	pCi/L	92	75 - 125	0.07	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>								
Ba Carrier	94.9		40 - 110								

Lab Sample ID: MB 160-526228/1-A
Matrix: Water
Analysis Batch: 530631

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526228

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.09496	U	0.121	0.121	1.00	0.200	pCi/L	09/09/21 17:37	10/11/21 21:21	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	68.3		40 - 110					09/09/21 17:37	10/11/21 21:21	1

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QC Sample Results

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

Job ID: 180-126277-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-526228/2-A
Matrix: Water
Analysis Batch: 530631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526228

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-226	11.3	10.94		1.22	1.00	0.224	pCi/L	96	75 - 125	
Carrier	%Yield	LCS Qualifier	Limits							
Ba Carrier	72.9		40 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-525827/24-A
Matrix: Water
Analysis Batch: 529908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525827

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Carrier	%Yield	MB Qualifier	Limits							
Ba Carrier	94.6		40 - 110							
Y Carrier	87.9		40 - 110							
								Prepared	Analyzed	Dil Fac
								09/08/21 10:16	10/04/21 12:51	1
								09/08/21 10:16	10/04/21 12:51	1

Lab Sample ID: LCS 160-525827/1-A
Matrix: Water
Analysis Batch: 529904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525827

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	9.27	10.22		1.19	1.00	0.366	pCi/L	110	75 - 125	
Carrier	%Yield	LCS Qualifier	Limits							
Ba Carrier	93.4		40 - 110							
Y Carrier	81.5		40 - 110							

Lab Sample ID: MB 160-526057/23-A
Matrix: Water
Analysis Batch: 529904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526057

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Carrier	%Yield	MB Qualifier	Limits							
Ba Carrier	92.8		40 - 110							
Y Carrier	73.6		40 - 110							
								Prepared	Analyzed	Dil Fac
								09/09/21 09:09	10/04/21 12:36	1
								09/09/21 09:09	10/04/21 12:36	1

QC Sample Results

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

Job ID: 180-126277-2

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

Lab Sample ID: LCS 160-526057/1-A
Matrix: Water
Analysis Batch: 530078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526057

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	9.27	11.97		1.43	1.00	0.564	pCi/L	129	75 - 125	
Carrier										
	%Yield	Qualifier	Limits							
Ba Carrier	75.2		40 - 110							
Y Carrier	80.0		40 - 110							

Lab Sample ID: LCSD 160-526057/2-A
Matrix: Water
Analysis Batch: 530078

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 526057

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	Limit
									75	125	0.92	1
Radium-228	9.27	9.586		1.16	1.00	0.447	pCi/L	103	75 - 125	0.92	1	
Carrier												
	%Yield	Qualifier	Limits									
Ba Carrier	87.5		40 - 110									
Y Carrier	79.6		40 - 110									

Lab Sample ID: MB 160-526246/1-A
Matrix: Water
Analysis Batch: 530403

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526246

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								09/10/21 09:01	10/06/21 12:46	10/06/21 12:46	1	
Radium-228	0.5801		0.308	0.313	1.00	0.459	pCi/L	09/10/21 09:01	10/06/21 12:46	10/06/21 12:46	1	
Carrier												
	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac		
Ba Carrier	85.2		40 - 110					09/10/21 09:01	10/06/21 12:46	1		
Y Carrier	83.0		40 - 110					09/10/21 09:01	10/06/21 12:46	1		

Lab Sample ID: LCS 160-526246/2-A
Matrix: Water
Analysis Batch: 530403

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526246

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	9.27	10.00		1.19	1.00	0.471	pCi/L	108	75 - 125	
Carrier										
	%Yield	Qualifier	Limits							
Ba Carrier	85.4		40 - 110							
Y Carrier	83.0		40 - 110							

QC Sample Results

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

Job ID: 180-126277-2

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

Lab Sample ID: LCSD 160-526246/3-A
Matrix: Water
Analysis Batch: 530403

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 526246

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	RER Limit
									75 - 125	0.04	1	
Radium-228	9.27	9.911		1.15	1.00	0.378	pCi/L	107	75 - 125	0.04		1
Carrier	%Yield	LCSD Qualifier	LCSD Limits									
Ba Carrier	94.9		40 - 110									
Y Carrier	85.6		40 - 110									

Lab Sample ID: MB 160-526247/1-A
Matrix: Water
Analysis Batch: 530525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 526247

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								09/10/21 09:05	10/07/21 12:29	10/07/21 12:29	1	
Radium-228	0.05123	U	0.328	0.328	1.00	0.576	pCi/L	09/10/21 09:05	10/07/21 12:29	10/07/21 12:29		1
Carrier	%Yield	MB Qualifier	MB Limits									
Ba Carrier	68.3		40 - 110									
Y Carrier	83.0		40 - 110									
				Prepared		Analyzed		Dil Fac				
				09/10/21 09:05		10/07/21 12:29		1				
				09/10/21 09:05		10/07/21 12:29		1				

Lab Sample ID: LCS 160-526247/2-A
Matrix: Water
Analysis Batch: 530525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 526247

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits			
									75 - 125			
Radium-228	9.26	10.88		1.30	1.00	0.480	pCi/L	117	75 - 125			
Carrier	%Yield	LCS Qualifier	LCS Limits									
Ba Carrier	72.9		40 - 110									
Y Carrier	82.2		40 - 110									

QC Association Summary

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

Job ID: 180-126277-2

Rad

Prep Batch: 525800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126277-1	WGWA-5	Total/NA	Water	PrecSep-21	
180-126277-2	FB-1	Total/NA	Water	PrecSep-21	
180-126277-3	WGWA-6	Total/NA	Water	PrecSep-21	
180-126277-4	WGWA-7	Total/NA	Water	PrecSep-21	
180-126277-5	Dup-1	Total/NA	Water	PrecSep-21	
180-126278-1	WGWA-2	Total/NA	Water	PrecSep-21	
180-126278-2	EB-1	Total/NA	Water	PrecSep-21	
MB 160-525800/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-525800/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 525827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126277-1	WGWA-5	Total/NA	Water	PrecSep_0	
180-126277-2	FB-1	Total/NA	Water	PrecSep_0	
180-126277-3	WGWA-6	Total/NA	Water	PrecSep_0	
180-126277-4	WGWA-7	Total/NA	Water	PrecSep_0	
180-126277-5	Dup-1	Total/NA	Water	PrecSep_0	
180-126278-1	WGWA-2	Total/NA	Water	PrecSep_0	
180-126278-2	EB-1	Total/NA	Water	PrecSep_0	
MB 160-525827/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-525827/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 525966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126278-3	WGWA-1	Total/NA	Water	PrecSep-21	
180-126278-4	WGWA-4	Total/NA	Water	PrecSep-21	
MB 160-525966/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-525966/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-525966/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 526057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126278-3	WGWA-1	Total/NA	Water	PrecSep_0	
180-126278-4	WGWA-4	Total/NA	Water	PrecSep_0	
MB 160-526057/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-526057/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-526057/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 526227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126364-1	WGWA-18	Total/NA	Water	PrecSep-21	
180-126364-2	WGWC-13	Total/NA	Water	PrecSep-21	
180-126364-3	WGWC-14A	Total/NA	Water	PrecSep-21	
180-126364-4	EB-2	Total/NA	Water	PrecSep-21	
180-126364-5	WGWC-17	Total/NA	Water	PrecSep-21	
180-126364-6	WGWC-19	Total/NA	Water	PrecSep-21	
180-126364-7	Dup-2	Total/NA	Water	PrecSep-21	
180-126364-8	WGWC-10	Total/NA	Water	PrecSep-21	
180-126364-9	WGWC-24	Total/NA	Water	PrecSep-21	
180-126364-10	Dup-3	Total/NA	Water	PrecSep-21	
180-126364-11	WGWC-25	Total/NA	Water	PrecSep-21	

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QC Association Summary

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

Job ID: 180-126277-2

Rad (Continued)

Prep Batch: 526227 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126364-12	WGWC-8	Total/NA	Water	PrecSep-21	
180-126364-13	WGWC-15	Total/NA	Water	PrecSep-21	
180-126364-14	WGWC-20	Total/NA	Water	PrecSep-21	
180-126364-15	WGWC-23	Total/NA	Water	PrecSep-21	
180-126364-16	FB-3	Total/NA	Water	PrecSep-21	
180-126367-1	WGWA-3	Total/NA	Water	PrecSep-21	
180-126367-2	WGWC-11	Total/NA	Water	PrecSep-21	
180-126367-3	WGWC-12	Total/NA	Water	PrecSep-21	
180-126367-4	FB-2	Total/NA	Water	PrecSep-21	
MB 160-526227/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-526227/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-526227/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 526228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126367-5	WGWC-16	Total/NA	Water	PrecSep-21	
180-126367-6	EB-3	Total/NA	Water	PrecSep-21	
180-126367-7	WGWC-21	Total/NA	Water	PrecSep-21	
180-126367-8	WGWC-9	Total/NA	Water	PrecSep-21	
180-126367-9	WGWC-22	Total/NA	Water	PrecSep-21	
MB 160-526228/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-526228/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 526246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126364-1	WGWA-18	Total/NA	Water	PrecSep_0	
180-126364-2	WGWC-13	Total/NA	Water	PrecSep_0	
180-126364-3	WGWC-14A	Total/NA	Water	PrecSep_0	
180-126364-4	EB-2	Total/NA	Water	PrecSep_0	
180-126364-5	WGWC-17	Total/NA	Water	PrecSep_0	
180-126364-6	WGWC-19	Total/NA	Water	PrecSep_0	
180-126364-7	Dup-2	Total/NA	Water	PrecSep_0	
180-126364-8	WGWC-10	Total/NA	Water	PrecSep_0	
180-126364-9	WGWC-24	Total/NA	Water	PrecSep_0	
180-126364-10	Dup-3	Total/NA	Water	PrecSep_0	
180-126364-11	WGWC-25	Total/NA	Water	PrecSep_0	
180-126364-12	WGWC-8	Total/NA	Water	PrecSep_0	
180-126364-13	WGWC-15	Total/NA	Water	PrecSep_0	
180-126364-14	WGWC-20	Total/NA	Water	PrecSep_0	
180-126364-15	WGWC-23	Total/NA	Water	PrecSep_0	
180-126364-16	FB-3	Total/NA	Water	PrecSep_0	
180-126367-1	WGWA-3	Total/NA	Water	PrecSep_0	
180-126367-2	WGWC-11	Total/NA	Water	PrecSep_0	
180-126367-3	WGWC-12	Total/NA	Water	PrecSep_0	
180-126367-4	FB-2	Total/NA	Water	PrecSep_0	
MB 160-526246/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-526246/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-526246/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Association Summary

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

Job ID: 180-126277-2

Rad

Prep Batch: 526247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-126367-5	WGWC-16	Total/NA	Water	PrecSep_0	
180-126367-6	EB-3	Total/NA	Water	PrecSep_0	
180-126367-7	WGWC-21	Total/NA	Water	PrecSep_0	
180-126367-8	WGWC-9	Total/NA	Water	PrecSep_0	
180-126367-9	WGWC-22	Total/NA	Water	PrecSep_0	
MB 160-526247/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-526247/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	



Chain of Custody Record

Client Information				Sampler: <u>LS ADD</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:			
Client Contact: SCS Contacts				Phone: <u>770-5945948</u>		E-Mail: <u>shali.brown@eurofinset.com</u>				Page:			
Company: GA Power				Analysis Requested								Job #:	
Address: 241 Ralph McGill Blvd SE												Due Date Requested:	
City: Atlanta										Project #: 18019922			
State, Zip: GA, 30308										SSOW#:			
Phone: 404-506-7116(Tel)													
Email: SCS Contacts													
Project Name: CCR - Plant Wansley Ash Pond													
Site:													
Sample Identification				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)			
										Performs MS/MSD (Yes or No)			
										App III Metals: B, Ca			
										Cl, F, SO & TDS (EPA 300 & SM 2540C)			
										Detected App IV Metals (EPA 6020/7470): Sb,As,Ba,Be,Cr,Co,Pb,Li,Mo,Se,Ti			
										Radium 226 & 228 (SW-946 9315/9320)			
										App IV Metals (EPA 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Ti			
										Radium 226 & 228 (SW-946 9315/9320)			
										Total Number of containers			
										Other:			
										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)			
										Special Instructions/Note:			
										pH= <u>6.80</u>			
										pH= <u>NA</u>			
										pH= <u>7.88</u>			
										pH= <u>5.53</u>			
										pH= <u>NA</u>			
										pH=			
										pH=			
										pH=			
										pH=			
										pH=			
										pH=			
										pH=			



Possible Hazard Identification

Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown
 Radiological

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

Return To Client
 Disposal By Lab
 Archive For ___ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: _____	Date/Time: <u>8/25/21 1145</u>	Company: _____	Received by: _____	Date/Time: <u>8/25/21 1145</u>	Company: _____
Relinquished by: _____	Date/Time: <u>8/25/21 1145</u>	Company: _____	Received by: _____	Date/Time: <u>8-26-21</u>	Company: _____
Relinquished by: _____	Date/Time: _____	Company: _____	Received by: _____	Date/Time: <u>1000</u>	Company: _____

Custody Seals Intact: Yes No


Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record

Client Information		Sampler: <u>S. Berick</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:							
Client Contact:		Phone: <u>770-597-5948</u>		E-Mail: <u>shali.brown@eurofinset.com</u>				Page:							
Company: GA Power		Analysis Requested						Job #:							
Address: 241 Ralph McGill Blvd SE										Due Date Requested:		Preservation Codes:			
City: Atlanta										TAT Requested (days):		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)	
State, Zip: GA, 30308										PO #:		Other:			
Phone: 404-506-7116(Tel)		WO #:		Project #: 18019922		SSOW#:		Project Name: CCR - Plant Wansley Ash Pond							
Email: SCS Contacts		Project #:		SSOW#:				Site:							
Project Name: CCR - Plant Wansley Ash Pond		SSOW#:						Site:							
Site:															

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=soil, C=wastewater, BT=tissue, A=air)	Analysis Requested										Total Number of containers	Special Instructions/Note:	
					Field Filtered Sample (Yes or No)	Pb, Cd, Mn, Ni, Hg, Se, Ti	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2640C)	Detected App IV Metals (EPA 60207/470): Sb, As, Ba, Be, Cr, Co, Pb, Li, Mo, Se, Ti	Radium 226 & 228 (SW-546 9315/9320)	App IV Metals (EPA 60207/470): Sb, As, Ba, Be, Cr, Co, Pb, Li, Hg, Mo, Se, Ti	Radium 226 & 228 (SW-546 9315/9320)					
Preservation Code:																	
WGWA-2	8-23-21	1535	G	Water	✓	✓	✓	✓	✓							1	pH= 6.18
EB-1	8-24-21	1100	G	Water	✓	✓	✓	✓	✓								pH=
WGWA-1	8-24-21	1145	G	Water	✓	✓	✓	✓	✓								pH= 5.21
WGWA-4	8-24-21	1410	G	Water	✓	✓	✓	✓	✓								pH= 7.22
			G	Water													pH=
			G	Water													pH=
			G	Water													pH=
			G	Water													pH=
			G	Water													pH=
			G	Water													pH=
			G	Water													pH=



180-126278 Chain of Custody

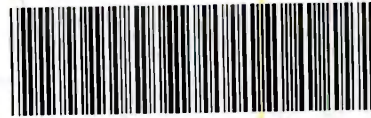
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input 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:		Time:		Method of Shipment:				
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8/25/21 1145</u>		Company:		Received by: <u>[Signature]</u>		Date/Time: <u>8/25/21 1145</u>		Company:
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8/25/21 1145</u>		Company:		Received by: <u>DN Watson</u>		Date/Time: <u>8-26-21</u>		Company:
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8/25/21 1145</u>		Company:		Received by: <u>[Signature]</u>		Date/Time: <u>1000</u>		Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
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Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



ofins Environment Testing America

Client Information	Sampler: <i>Hunter Auld</i>	Lab PM: Brown, Shali
Client Contact: SCS Contacts	Phone: <i>770-594-5998</i>	E-Mail: shali.brown@eurofinset.co

180-126364 Chain of Custody

Company: GA Power	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:	Field Filtered Sample (Yes or No) Parameter: <i>As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti</i> App III Metals: B, Ca Cl, F, SO & TDS (EPA 300 & SM 2640C) Detected App IV Metals (EPA 60207/470): Radium 226 & 228 (SW-846 9316/9320) App IV Metals (EPA 60207/470): Radium 226 & 228 (SW-846 9316/9320)	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S 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)
City: Atlanta	TAT Requested (days):		
State, Zip: GA, 30308	PO #:		
Phone: 404-506-7116(Tel)	WO #:		
Email: SCS Contacts	Project #: 18019922		
Project Name: CCR - Plant Wansley Ash Pond	SSOW#:	Other:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Parameter (Y or No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2640C)	Detected App IV Metals (EPA 60207/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti	Radium 226 & 228 (SW-846 9316/9320)	App IV Metals (EPA 60207/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti	Radium 226 & 228 (SW-846 9316/9320)	Total Number of containers	Special Instructions/Note:
<i>WGWA-18</i>	<i>8-25-21</i>	<i>1125</i>	<i>G</i>	<i>Water</i>	<i>NN</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>				<i>4</i>	<i>pH= 6.74</i>
<i>WGWC-13</i>	<i>8-25-21</i>	<i>1245</i>	<i>G</i>	<i>Water</i>	<i>NN</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>				<i>4</i>	<i>pH= 6.27</i>
<i>WGWC-14A</i>	<i>8-25-21</i>	<i>1330</i>	<i>G</i>	<i>Water</i>	<i>NN</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>				<i>4</i>	<i>pH= 5.39</i>
<i>EB-2</i>	<i>8-25-21</i>	<i>1505</i>	<i>G</i>	<i>Water</i>	<i>NN</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>				<i>4</i>	<i>pH=</i>
<i>WGWC-17</i>	<i>8-25-21</i>	<i>1455</i>	<i>G</i>	<i>Water</i>	<i>NN</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>				<i>4</i>	<i>pH= 6.09</i>
<i>WGWC-19</i>	<i>8-26-21</i>	<i>1105</i>	<i>G</i>	<i>Water</i>	<i>NN</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>				<i>4</i>	<i>pH= 6.66</i>
<i>Dup-2</i>	<i>8-26-21</i>	<i>—</i>	<i>G</i>	<i>Water</i>	<i>NN</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>				<i>4</i>	<i>pH=</i>
<i>WGWC-10</i>	<i>8-26-21</i>	<i>1235</i>	<i>G</i>	<i>Water</i>	<i>NN</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>				<i>4</i>	<i>pH= 6.31</i>
<i>WGWC-24</i>	<i>8-26-21</i>	<i>1355</i>	<i>G</i>	<i>Water</i>	<i>NN</i>	<i>✓</i>	<i>✓</i>			<i>✓</i>	<i>✓</i>		<i>4</i>	<i>pH= 4.33</i>
<i>Dup-3</i>	<i>8-26-21</i>	<i>—</i>	<i>G</i>	<i>Water</i>	<i>NN</i>	<i>✓</i>	<i>✓</i>			<i>✓</i>	<i>✓</i>		<i>4</i>	<i>pH=</i>
<i>WGWC-25</i>	<i>8-26-21</i>	<i>1552</i>	<i>G</i>	<i>Water</i>	<i>NN</i>	<i>✓</i>	<i>✓</i>			<i>✓</i>	<i>✓</i>		<i>4</i>	<i>pH= 5.30</i>

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
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Deliverable Requested: I, II, III, IV, Other (specify) _____ Special Instructions/QC Requirements: _____

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>Hunter Auld</i>	Date/Time: <i>8-27-21 / 1140</i>	Company: <i>ACC</i>	Received by: <i>Michael Meled</i>
Relinquished by: <i>Michael Meled</i>	Date/Time: <i>8-27-21 11:42</i>	Company:	Received by: <i>DW Citrus</i>
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
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Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record




Client Information		Sampler: <i>Toby Johnson/H. Auld</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:									
Client Contact: SCS Contacts		Phone: <i>770-594-5978</i>		E-Mail: <i>shali.brown@eurofinset.com</i>				Page:									
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:		Due Date Requested:		TAT Requested (days):									
PO #:		WO #:		Project #: 18019922		SSOW#:		Analysis Requested									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Preserved (Yes or No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2640C)	Detected App IV Metals (EPA 60207470): Sb, As, Ba, Be, Cr, Co, Pb, Li, Mo, Se, Ti	Radium 226 & 228 (SW-846 9316/9320)	App IV Metals (EPA 60207470): Sb, As, Ba, Be, Cr, Co, Pb, Li, Hg, Mo, Se, Ti	Radium 226 & 228 (SW-846 9316/9320)	Total Number of containers	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S 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:	Special Instructions/Note:
Preservation Code:																	
<i>WGWC-8</i>		<i>8-26-21</i>	<i>1241</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>			<i>4</i>	<i>pH= 5.36</i>		
<i>WGWC-15</i>		<i>8-26-21</i>	<i>1614</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>			<i>6</i>	<i>pH= 7.58</i>	<i>Extra Rad</i>	
<i>WGWC-20</i>		<i>8-26-21</i>	<i>1132</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>✓</i>	<i>✓</i>			<i>✓</i>	<i>✓</i>	<i>4</i>	<i>pH= 5.37</i>		
<i>WGWC-23</i>		<i>8-26-21</i>	<i>1455</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>✓</i>	<i>✓</i>			<i>✓</i>	<i>✓</i>	<i>4</i>	<i>pH= 5.80</i>		
<i>FB-3</i>		<i>8-26-21</i>	<i>1453</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>W</i>	<i>✓</i>	<i>✓</i>			<i>✓</i>	<i>✓</i>	<i>4</i>	<i>pH=</i>		
				<i>G</i>	<i>Water</i>										<i>pH=</i>		
				<i>G</i>	<i>Water</i>										<i>pH=</i>		
				<i>G</i>	<i>Water</i>										<i>pH=</i>		
				<i>G</i>	<i>Water</i>										<i>pH=</i>		
				<i>G</i>	<i>Water</i>										<i>pH=</i>		
				<i>G</i>	<i>Water</i>										<i>pH=</i>		
				<i>G</i>	<i>Water</i>										<i>pH=</i>		
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 checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<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:		Time:		Method of Shipment:											
Relinquished by: <i>A. A. A.</i>		Date/Time: <i>8-27-21 / 11:40</i>		Company: <i>ACC</i>		Received by: <i>Michael Mackel</i>		Date/Time: <i>8-27-21 11:42</i>		Company:							
Relinquished by: <i>Michael Mackel</i>		Date/Time: <i>8-27-21 11:42</i>		Company:		Received by: <i>D. Watson</i>		Date/Time: <i>8-20-21</i>		Company: <i>ETARK</i>							
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:															

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Client Information				Sampler: <i>J. Benford/H. Auld</i>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:					
Client Contact: SCS Contacts				Phone: <i>770-544-5998</i>		E-Mail: <i>shali.brown@eurofinset.com</i>		 180-126367 Chain of Custody							
Company: GA Power															
Address: 241 Ralph McGill Blvd SE				Due Date Requested:				Analysis Request C - Zn Acetate ✓ D - Nitric Acid P - Na2O4S 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)							
City: Atlanta				TAT Requested (days):											
State, Zip: GA, 30308								Total Number of containers Other:							
Phone: 404-506-7116(Tel)				PO #:											
Email: SCS Contacts				WO #:				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							
Project Name: CCR - Plant Wansley Ash Pond				Project #: 18019922											
Site:				SSOW#:				Special Instructions/Note:							
Sample Identification		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)	MS/MS (Yes or No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2540C)	Detected App IV Metals (EPA 60207/470): Sb,As,Ba,Be,Cr,Cd,Co,Pb,LI,Mo,Se,Tl	Radium 226 & 228 (SW-946 9315/9320)	App IV Metals (EPA 60207/470): Sb,As,Ba,Be,Cd,Co,Pb,LI,Hg,Mo,Se,Tl	Radium 226 & 228 (SW-946 9315/9320)	Total Number of containers	Special Instructions/Note:
				Preservation Code:											
W GWA-3		8-25-21	1050	G	Water	N	N	✓	✓	✓	✓			4	pH= 5.52
W GWC-11		8-25-21	1200	G	Water	N	N	✓	✓	✓	✓			4	pH= 5.66
W GWC-12		8-25-21	1330	G	Water	N	N	✓	✓	✓	✓			6	pH= 6.69
FB-2		8-25-21	1435	G	Water	N	N	✓	✓	✓	✓			4	pH= NA
W GWC-16		8-25-21	1450	G	Water	N	N	✓	✓	✓	✓			4	pH= 5.25
EB-3		8-26-21	1010	G	Water	N	N	✓	✓			✓	✓	4	pH= NA
W GWC-21		8-26-21	1130	G	Water	N	N	✓	✓			✓	✓	4	pH= 6.88
W GWC-9		8-26-21	1300	G	Water	N	N	✓	✓	✓	✓			4	pH= 5.84
W GWC-22		8-26-21	1520	G	Water	N	N	✓	✓			✓	✓	4	pH= 5.40
				G	Water										pH=
				G	Water										pH=
Possible Hazard Identification						Sample Disposal									
<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						<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:		Time:		Method of Shipment:									
Relinquished by: <i>J. Auld</i>		Date/Time: <i>8-27-21 / 1140</i>		Company: <i>ACC</i>		Received by: <i>Michael Masked</i>		Date/Time: <i>8-27-21 11:42</i>		Company:					
Relinquished by: <i>Michael Masked</i>		Date/Time: <i>8-27-21 11:42</i>		Company:		Received by: <i>D. Water</i>		Date/Time: <i>8-27-21</i>		Company: <i>ETA</i>					
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time: <i>9:15</i>		Company:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:									

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10
11
12
13

10/12/2021

Do Not Lift Using This Tag

Part # 159469-434 R172 EXP 06/22 •



Environment Testing
TestAmerica

ORIGIN ID: LTYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
ACTWT: 45.40 LB
CND 8591162CAF3409
BILL THIRD PARTY

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

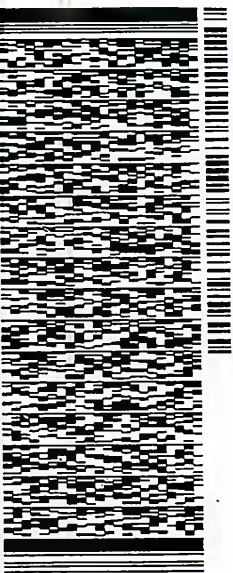
(412) 988-7058
NJ
PO1

REF1

DEPT1

Page 67 of 99

180-126277 Waybill



MPS# 1516 9332 3165
Matr# 1516 9332 3132

0201

NA AGCA

15238
PA-US PI

THU - 26 AUG 10:30
PRIORITY OVERNIGHT

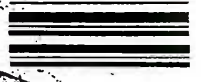
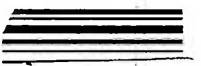
4 of 4

Uncorrected temp
Thermometer ID

CF G Initials

31.1 °C
14.1

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



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Do Not Remove Using This Tag



Environment Testing
TestAmerica

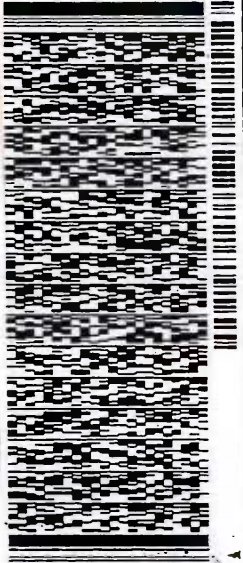
Part # 159469-434 RIT2 EXP 06/22

ORIGIN ID: ILYA (679) 966-9991
GEORGE WYLLOR
EUROFINS TESTING AMERICA ARL SC
8215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
ACTWT: 45.40 LB
CAD: 859116/CARFE3409
BILL THIRD PARTY

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

(412) 963-7058 REF: 0201
PTI 0201



MPS# 1516 9332 3143
0263
Mstr# 1516 9332 3132

THU - 26 AUG 10:30A
PRIORITY OVERNIGHT

NA AGCA


15238
PIT

Uncorrected temp
Thermometer ID
CF Initials

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



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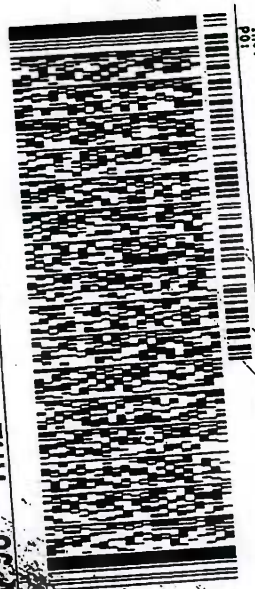
 **eurofins**
Environment Testing
TestAmerica

ORIGIN ID: ILYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
EUROFINS TESTING AMERICA
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
ACTWT: 45.40 LB
CMB: 859116/CNFE3409
BILL THIRD PARTY

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

REF: (412) 963-7068
DEPT: 1107
PO: 501



1 of 4
TRK# 1516 9332 3132
0201
MASTER

THU - 26 AUG
PRIORITY ONE

NA AGCA

Uncorrected temp
Thermometer ID
CF 0
Initials [Signature]
PT-M-SR-001 effective 1/18/18

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Do Not Lift Using This Tag

10/12/2021



Environment Testing
TestAmerica

ORIGIN ID: LTYA (678) 966-9991
GEORGE AYLER
EUROFINS TESTING AMERICA
6215 REGENCY PARKWAY NW
SUITE 800
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
PC WT: 45.40 LB
CMB: 8591167CME3409

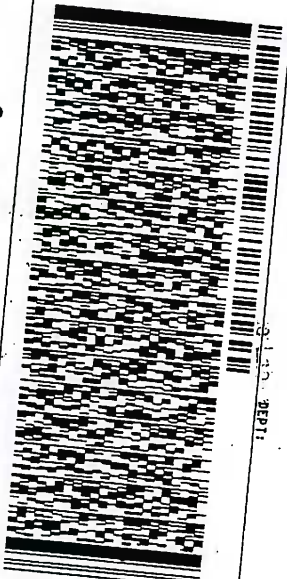
BILL THIRD PARTY

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

(412) 863-7058
PO:

REF:

SEPT:



Page 70 of 99

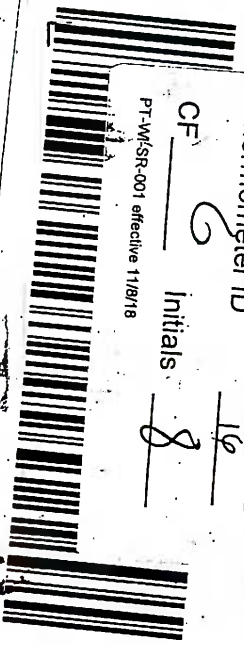
MPS# 3 of 4
0263 **1516 9332 3154**
Mstr# 1516 9332 3132
THU - 26 AUG 10:30A
PRIORITY OVERNIGHT

NA AGCA

Uncorrected temp
Thermometer ID
15238
PIT

CF
Initials 8

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



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10/12/2021

Do Not Lift Using This Tag

Part # 159469-434 RIT2 EXP 06/22 •



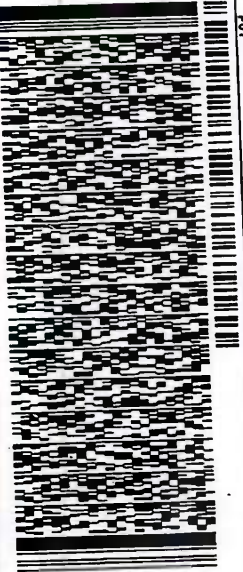
Environment Testing
TestAmerica

ORIGIN ID: L1YA (678) 966-9991
 GEORGE TAYLOR
 EUROFINS TESTING AMERICA ATL SC
 6215 REGENCY PARKWAY NM
 SUITE 900
 NORCROSS, GA 30071
 UNITED STATES US

SHIP DATE: 25AUG21
 ACTWGT: 45.40 LB
 CRD: 859116/CPE3409
 BILL THIRD PARTY

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

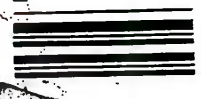
(412) 983-7066 DEPT1
 P01



4 of 4
 MPS# 1516 9332 3165
 Metr# 1516 9332 3132

THU - 26 AUG 10:30
 PRIORITY OVERNIGHT
 15238
 PA US PI

Uncorrected temp 31 °C
 Thermometer ID 14
 CF G Initials 81
 PT-WM-SR-001 effective 11/8/18



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Do Not Lift Using This Tag



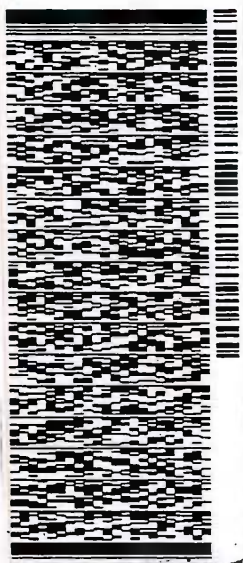
Environment Testing
TestAmerica

Part # 159469-434 R1T2 EXP 06/22

ORIGIN ID: IYA (678) 986-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
8215 REGENCY PARKWAY NW
SUITE 800
NORCROSS GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
ACTWGT: 45.40 LB
CAD: 859116/CAFE3409
BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDG PARK
PITTSBURGH PA 15238
REF: (412) 983-7058
DEPT: 1001



MPS# 1516 9332 3143
Mstr# 1516 9332 3132

2 of 4
THU - 26 AUG 10:30A
PRIORITY OVERNIGHT

NA AGCA


15238
PIT

Uncorrected temp
Thermometer ID

CF Initials



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

 **eurofins**
Environment Testing
TestAmerica

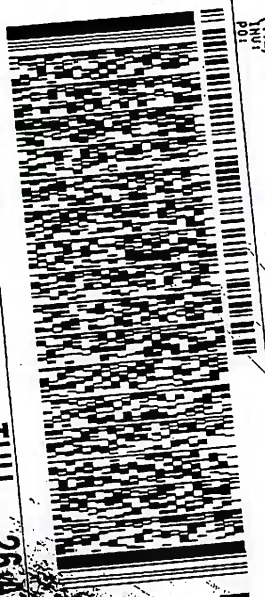
ORIGIN ID: IYA (578) 966-9991
GEORGE FAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENT WCY PARKWAY NM
SUITE 900 GR 30071
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
ACTWGT: 45.40 LB
CAD: 959115/CAFES409

BILL THIRD PARTY

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

(412) 983-7058
REF



1 of 4
TRK# 1516 9332 3132
0201
MASTER

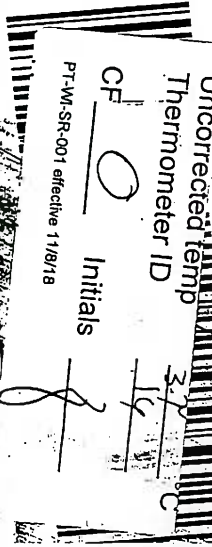
THU - 26 AUG
PRIORITY ONE

NA AGCA

Uncorrected temp
Thermometer ID

CF  Initials 

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



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Do Not Lift Using This Tag

10/12/2021



Environment Testing
TestAmerica

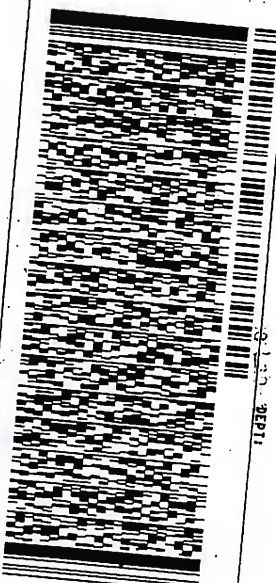
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GEORGE TAYLOR
6215 AHS TESTING AMERICA ATL SC
SUITE AGENCY PARKWAY NW
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 25AUG21
ACTWGT: 45.40 LB
CRD: 859116/CNFE3409

BILL THIRD PARTY

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

(412) 983-7068
REF1
PRO1



MPS# 3 of 4
0263 1516 9332 3154
Mstr# 1516 9332 3132
0201
THU - 26 AUG 10:30A
PRIORITY OVERNIGHT

NA AGCA

Uncorrected temp 15238
Thermometer ID PIT
US

CF Initials 8



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

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Saturday/DELIVERY

 **eurofins**
Environment Testing
TestAmerica

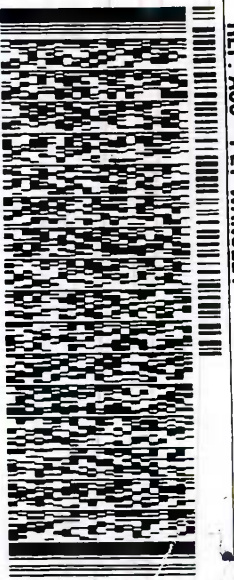
10/12/2021
Part # 159469-434 RIT2 EXP 06/22

ORIGIN ID: LIVA (678) 966-9934
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL, SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

RT 639
BILL TO: TAZ

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15236

(412) 983-7068
REF: ACC - PLT WANSLEY



Page 5 of 6

1 of 7
TRK# 1516 9332 3886
0201
MASTER #
SATURDAY 12:00
PRIORITY OVERNIGHT

XO AGCA
15236
PA-US PI



180-126364 Waybill

Uncorrected temp 3.8 °C
Thermometer ID 10
CF Q Initials Q
PT-VM-SR-001 effective 11/9/18

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10/12/2021

Do Not Lift Heavy This Tape



Environment Testing
TestAmerica

Part # 159469-434 PIT2 EXP 06/22

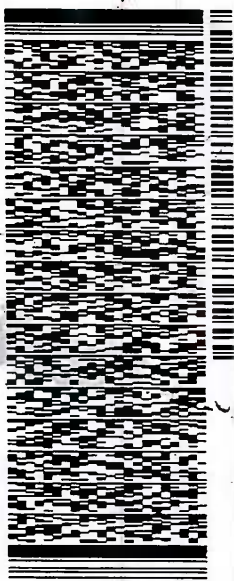
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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 27AUG21
ACTWT: 39.55 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 883-7058
REF: ACC - PLT WANSLEY



MPS# 1516 9332 3897

Mstr# 1516 9332 3886

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 AGCA

15238
PA-US PIT

Uncorrected temp
Thermometer ID

2.3 °C



2 of 7

0263

0201

69

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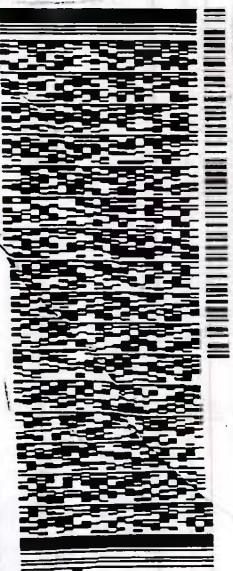
FedEx Saturday Delivery



ORIGIN ID:Liya (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 22AUG21
ACTWGT: 39.55 LB
CRD: 859116/CFEE3409
BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 968-7068
REF: ACC - PLT WANSLEY



MPS# 1516 9332 3901

Mstr# 1516 9332 3886

X0 AGCA

15238
PIT

SATURDAY 12:00P
PRIORITY OVERNIGHT



Uncorrected temp
Thermometer ID

CF Initials

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

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FedEx Saturday Delivery

10/12/2021
151967 REV 1



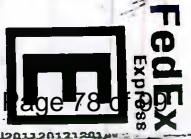
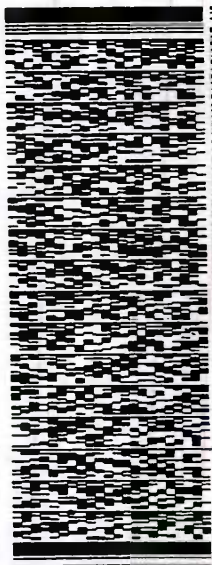
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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SH1 DATE: 27AUG21
ACT 151.39.55 LB
CHD 859116/CNFE3409

BILL INCENT

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

(412) 983-7058
REF: ACC-PLT WANSLEY



Page 78 of 80

MPS# 1516 9332 3923
0203
Mastr# 1516 9332 3886

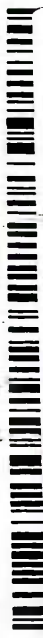
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SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 AGCA

15238
PA-US PIT

Uncorrected temp 46 °C
Thermometer ID 10
CF Initials S
PT-WI-SR-001 effective 11/8/18



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SDP
FedEx Saturday Delivery

Environment Testing
TestAmerica

15197 REV 0

10/2/2021

Part # 159469-434 RIT2 EXP 06/22 •

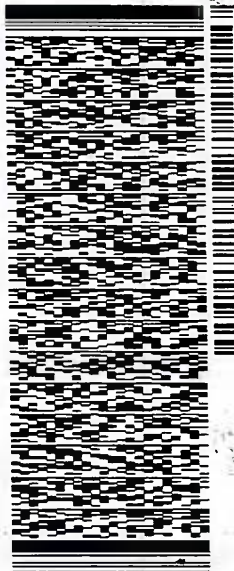
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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
SUTER REGENCY PARKWAY NW
SUITE 900
NORCROSS GA 30071
UNITED STATES US

SHIP DATE: 27AUG21
ACTWT: 39.55 LB
CAD: 858116/CAFES3409

BILL RECIPIENT

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

(412) 983-7088
REF: ACC - PLT WANSLEY



MRS# 4 of 7
0263] 1516 9332 3912

SATURDAY 12:00P
PRIORITY OVERNIGHT

Mstr# 1516 9332 3886

0201

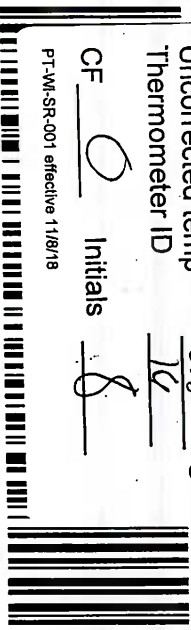
XO AGCA

PA-US 15238
PIT

Uncorrected temp 2.8 °C
Thermometer ID 14

CF 0 Initials S

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



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FedEX®

FedEx Saturday Delivery

151967 REV 1/20

10/12/2021

SDR

FedEX
Express

 eurofins

Environment Testing
TestAmerica

94 RIT2 EXP 06/22 •

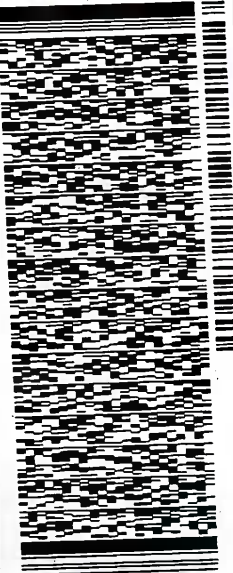
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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6219 RENSSELY PARKWAY NW
SUITE 900
NORCROSS GA 30071
UNITED STATES US

SHIP DATE: 27AUG21
ACTWT: 39.55 LB
CRD: 8591167/CAFE3409
BILL RECIPIENT

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

(412) 963-7068
REF: AGC - PLT WANSLEY

Page 80 of 99



SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# 1516 9332 3934
Mstr# 1516 9332 3886

0201

X0 AGCA

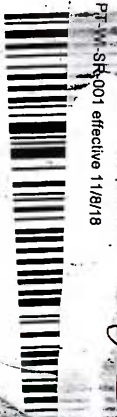
15238
PA-US PIT

Uncorrected temp

3.4 °C

Thermometer ID


PT-MS-SH001 effective 11/8/18



7887
3.8
#16

Balance Due

Part # 159469-434 RIT2 EXP 06/22
10/12/2021

 **eurofins**
Environment Testing
TestAmerica

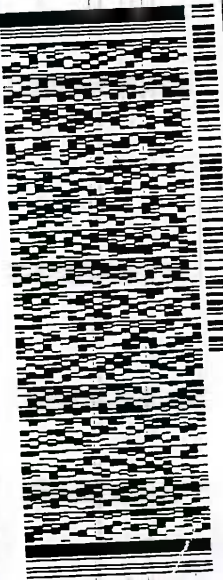
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1200

ORIGIN ID: LIYA (678) 966-9961
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL GA
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP TO
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BILL TO

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

(412) 963-7058
REF: ACC - PLT WANSLEY



SATURDAY 12:00
PRIORITY OVERNIGHT

1 of 7
TRK# 1516 9332 3886
MASTER ##
X0 AGCA
PA-US 1523 PI

Uncorrected temp 3.8 °C
Thermometer ID 16
CF CF Initials [Signature]
PT-M-SR-001 effective 11/8/18



180-126367 Maybill

10/12/2021

Do Not Lift Heavy This Tan



Environment Testing
TestAmerica

Part # 159469-434 R172 EXP 06/22

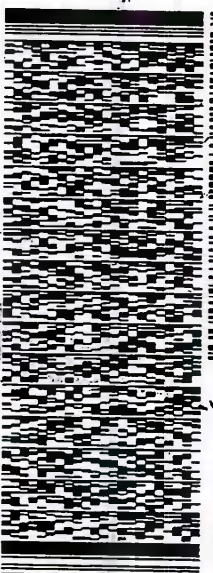
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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL, SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 27AUG21
ACTWT: 39.55 LB
CSD: 859167CAFEE3409

BILL RECIPIENT

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

(412) 868-7068
REF-ACC - P/LT WANSLEY



2 of 7

MPS# 1516 9332 3897
Mstr# 1516 9332 3888

SATURDAY 12:00F
PRIORITY OVERNIGHT

X0 AGGA

15238
PA-US PIT

Uncorrected Temp
Thermometer



66 of

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FedEx Saturday Delivery

eurofins



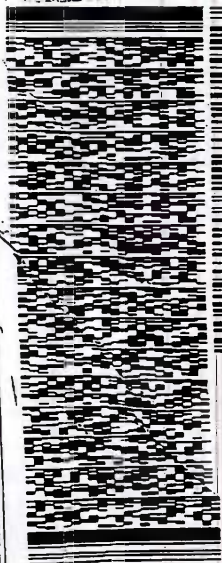
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EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 27AUG21
ACTWT: 39.55 LB
CAD: 859116/CAFE3409

BILL RECIPIENT

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

(412) 963-7058
REF: AGC - PLT WANSLEY



MPS# 1516 9332 3901

Mstr# 1516 9332 3886

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PIT

Uncorrected temp

Thermometer ID

CF

Initials

8



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

FedEx Saturday Delivery

151967 REV 5/21

10/12/2021



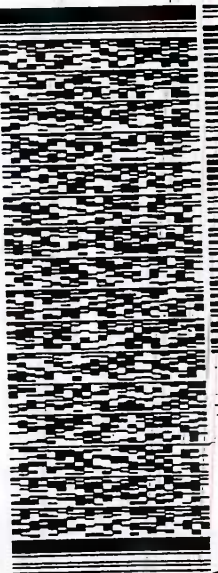
ORIGIN ID: LIVA (678) 966-9991
GEORGE TAYLOR ING AMERICA ATL SC
EUROFINS TESTING AMERICA
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SH1 DATE: 27AUG21
ACT WT: 39.55 LB
CAD: 659116/CAT/E3409

BILL INCENT

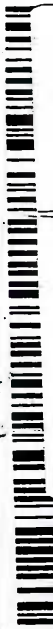
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 883-7068
REF: ACC - PLT WANSLEY



5 of 7
MPS# 1516 9332 3923 SATURDAY 12:00
02663 PRIORITY OVERNIGHT
Mstr# 1516 9332 3886 0201
X0 AGCA 15238
PA-US PI

Uncorrected temp 4.6 °C
Thermometer ID 14
CF Initials S
PT-WA-SR-001 effective 1/9/18



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SDT
FedEx Saturday Delivery

Environment Testing
TestAmerica

15967 REV 10/12/2021

Part # 159469-434-RTT2-EXP 06/22

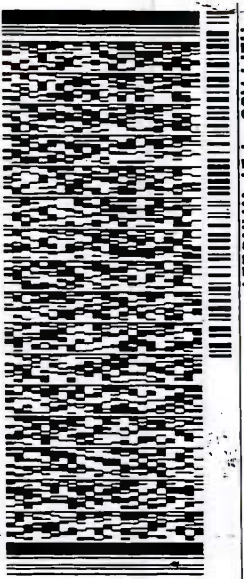
ORIGIN ID: IYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 27AUG21
ACTWT: 39.55 LB
CND: 859116/CAFE3409

BILL RECIPIENT

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

(412) 968-7068
REF: ACC - PLT WANSLEY



4 of 7

MPS# 1516 9332 3912
0263

Mstr# 1516 9332 3886

0201

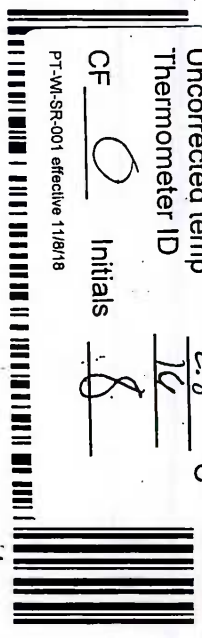
SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 AGCA

15238
PA-US PIT

Uncorrected temp 2.8 °C
Thermometer ID 16

CF 0 Initials 8



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

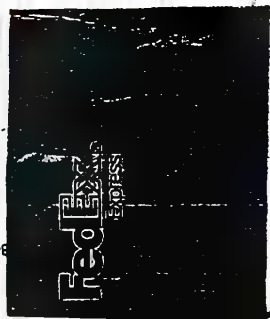
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FedEX®

FedEx Saturday Delivery

12/2021

JDS



eurofins

Environment Testing
TestAmerica

REF: 1919151

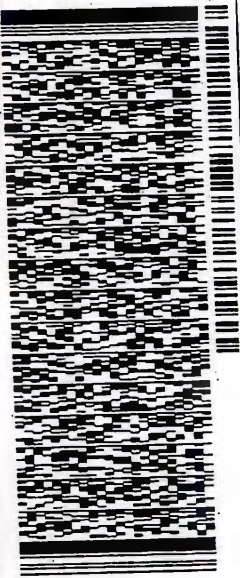
ORIGIN ID: IYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES- US

SHIP DATE: 27AUG21
ACTWGT: 39.55 LB
CNO: 859116/CAFE3409

BILL RECIPIENT

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

(412) 863-7088
REF: ACC - PLT WANSLEY



7087

3.8
C
#16

6 of 7
SATURDAY 12:00
PRIORITY OVERNIGHT

MPS# 1516 9332 3934
Mstr# 1516 9332 3886

XO AGCA

1523
PA-US
PI

Uncorrected temp

3 C °C

Thermometer ID



PLM-Str-001 effective 11/6/18



94 RIT2 EXP 06/22

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler		Lab PM: Brown, Shali		Carrier Tracking No(s)		COC No: 180-442825-1				
Client Contact: Shipping/Receiving		Phone:		E-Mail: Shali.Brown@Eurofinset.com		State of Origin: Georgia		Page 1 of 1				
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note)						Job #: 180-126277-2				
Address: 13715 Rider Trail North,		Due Date Requested: 9/29/2021						Preservation Codes:				
City: Earth City		TAT Requested (days):						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:				
State Zip: MO, 63045		PO #:		WO #:				M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Project #:		SSOW#:								
Email:		Plant Wansley Ash Pond		Site: Wansley CCR								
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Oil, Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	915_Ra226/PreSep_21 Radium 226	920_Ra228/PreSep_0 Radium 228	Ra226Ra228 GFC/ Combined Radium-226 and Radium-228	Total Number of Containers	Special Instructions/Note:
WGWA-5 (180-126277-1)		8/24/21	12:18 Eastern	Water	Water	X	X	X	X	X	2	
FB-1 (180-126277-2)		8/24/21	13:20 Eastern	Water	Water	X	X	X	X	X	2	
WGWA-6 (180-126277-3)		8/24/21	13:40 Eastern	Water	Water	X	X	X	X	X	2	
WGWA-7 (180-126277-4)		8/24/21	15:10 Eastern	Water	Water	X	X	X	X	X	2	
Dup-1 (180-126277-5)		8/24/21	Eastern	Water	Water	X	X	X	X	X	2	
<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 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												
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 type="checkbox"/> Archive For <input type="checkbox"/> Months												
Special Instructions/QC Requirements:												
Empty Kit Relinquished by: _____ Date: _____												
Relinquished by: <i>MO</i> Date: <i>9/20/21</i> Time: <i>1200</i> Company: <i>FED EX</i>												
Relinquished by: _____ Date: _____ Time: _____ Company: _____												
Relinquished by: _____ Date: _____ Time: _____ Company: _____												
Custody Seals Intact: _____ Custody Seal No.: _____												
Cooler Temperature(s) °C and Other Remarks:												



Ver: 06/08/2021

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM Brown, Shali	Carrier Tracking No(s)	COC No 180-442825-1
Shipping/Receiving		E-Mail Shali.Brown@Eurofinset.com	State of Origin Georgia	Page Page 1 of 1
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note) 180-126278-2		
Address 13715 Rider Trail North,		Job # 180-126278-2		
City Earth City	Due Date Requested: 9/29/2021	Preservation Codes: A - HCL B - NaOH 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)		
State, Zip MO, 63045	TAT Requested (days):	Other: _____		
Phone 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name Plant Wansley Ash Pond	Project # 18019922			
Site Wansley CCR	SSOW#:			
Analysis Requested				
Sample Identification - Client ID (Lab ID)		Field Filled Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers
WGWA-2 (180-126278-1)	8/23/21	X	X	2
EB-1 (180-126278-2)	8/24/21	X	X	2
WGWA-1 (180-126278-3)	8/24/21	X	X	2
WGWA-4 (180-126278-4)	8/24/21	X	X	2
Special Instructions/Note:				
<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 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</p>				
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify) _____				
Empty Kit Relinquished by: _____				
Date: _____ Time: _____				
Primary Deliverable Rank: 2				
Special Instructions/QC Requirements: _____				
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				
Relinquished by: <i>MB</i>		Date: 8/30/21 1700		
Relinquished by: FED EX		Company: <i>ETA JLC</i>		
Relinquished by:		Date/Time: 8/31/21 1005		
Custody Seals Intact:		Date/Time:		
<input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:		

Chain of Custody Record

Client Information (Sub Contract Lab)
 Shipping/Receiving
 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: Plant Wansley Ash Pond
 Site: Wansley CCR

Sampler
 Lab Pk: Brown, Shali
 E-Mail: Shali.Brown@Eurofinset.com
 Phone:
 State of Origin: Georgia

Carrier Tracking No(s): 180-442825-1
Page: Page 1 of 2
Job #: 180-126364-2

Accreditations Required (See note)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, A=air)	Analysis Requested			Special Instructions/Note:
					Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	
WGWA-18 (180-126364-1)	8/25/21	11:25 Eastern	Water	Water	X	X	2	
WGWC-13 (180-126364-2)	8/25/21	12:45 Eastern	Water	Water	X	X	2	
WGWC-14A (180-126364-3)	8/25/21	13:30 Eastern	Water	Water	X	X	2	
EB-2 (180-126364-4)	8/25/21	15:05 Eastern	Water	Water	X	X	2	
WGWC-17 (180-126364-5)	8/25/21	14:55 Eastern	Water	Water	X	X	2	
WGWC-19 (180-126364-6)	8/26/21	11:05 Eastern	Water	Water	X	X	2	
Dup-2 (180-126364-7)	8/26/21	Eastern	Water	Water	X	X	2	
WGWC-10 (180-126364-8)	8/26/21	12:35 Eastern	Water	Water	X	X	2	
WGWC-24 (180-126364-9)	8/26/21	13:55 Eastern	Water	Water	X	X	2	

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) _____
 Empty Kit Relinquished by: _____
 Date: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab _____ Archive For _____ Months

Relinquished by	Date/Time	Method of Shipment	Received by	Date/Time	Company
MO	8/30/21 1700	FED EX	Shali Brown	8/31/21	EPA SWL

Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM Brown, Shali		Carrier Tracking No(s)		COC No. 180-4428252	
Shipping/Receiving		E-Mail Shali.Brown@Eurofinset.com		State of Origin Georgia		Page Page 2 of 2	
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note)		Job # 180-126364-2		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Arsenic 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:	
Address 13715 Rider Trail North, City Earth City State, Zip MO, 63045 Phone 314-298-8566(Tel) 314-298-8757(Fax) Email		Due Date Requested: 10/3/2021 TAT Requested (days):		Analysis Requested		Total Number of Containers	
PO #		Field Filtered Sample (Yes or No)		9320_Ra228/PreSep_0 Radium 228		9315_Ra226/PreSep_21 Radium 226	
WO #		Perform MS/MSD (Yes or No)		Ra226Ra228 GFC/ Combined Radium-226 and		Radium-228	
Project # 18019922		Sample Time		Sample Date		Matrix (W=water, S=solid, O=wast/water, BT=tissue, A=air)	
Site Wansley CCR		Sample Type (C=Comp, G=grab)		Preservation Code:		Special Instructions/Note:	
Dup-3 (180-126364-10)		Eastern		8/26/21		Water	
WGWC-25 (180-126364-11)		Eastern		8/26/21		Water	
WGWC-8 (180-126364-12)		Eastern		8/26/21		Water	
WGWC-15 (180-126364-13)		Eastern		8/26/21		Water	
WGWC-20 (180-126364-14)		Eastern		8/26/21		Water	
WGWC-23 (180-126364-15)		Eastern		8/26/21		Water	
FB-3 (180-126364-16)		Eastern		8/26/21		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/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

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:	Time:	Method of Shipment:
Relinquished by	8/30/21	1200	FED EX
Relinquished by			
Relinquished by			
Custody Seals Intact Δ Yes Δ No	Custody Seal No.:		

Received by: *[Signature]* Company: *[Signature]*
 Received by: *[Signature]* Company: *[Signature]*
 Received by: *[Signature]* Company: *[Signature]*

Company: *ETA 57c*

Cooler Temperature(s) °C and Other Remarks:



Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



eurofins

Environment Testing
America

Client Information (Sub Contract Lab)		Sampler: Lab PM: Brown, Shali		Carrier Tracking No(s): COC No: 180-442825-1							
Client Contact: Shipping/Receiving		Phone: E-Mail: Shali.Brown@Eurofinset.com		State of Origin: Georgia							
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note)		Job #: 180-126367-2							
Address: 13715 Rider Trail North,		Due Date Requested: 10/3/2021		Analysis Requested:							
City: Earth City		TAT Requested (days):		A - HCL B - NaOH 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)							
State, Zip: MO, 63045		PO #:		Preservation Codes:							
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		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:							
Email:		Project #: 18019922									
Plant Name: Wansley Ash Pond		SSOW#:									
Site: Wansley CCR											
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Organic, Oil, BT-Tissue, A-Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	920_Ra228/Precep_0 Radium 228	9315_Ra226/Precep_21 Radium 226	Ra226Ra228 GPF/ Combined Radium-226 and Radium-228	Total Number of Containers	Special Instructions/Note:
WGWA-3 (180-126367-1)	8/25/21	10:50 Eastern	Water	Water	X	X	X	X	X	2	
WGWG-11 (180-126367-2)	8/25/21	12:00 Eastern	Water	Water	X	X	X	X	X	2	
WGWG-12 (180-126367-3)	8/25/21	13:30 Eastern	Water	Water	X	X	X	X	X	4	
FB-2 (180-126367-4)	8/25/21	14:35 Eastern	Water	Water	X	X	X	X	X	2	
WGWG-16 (180-126367-5)	8/25/21	14:50 Eastern	Water	Water	X	X	X	X	X	2	
EB-3 (180-126367-6)	8/26/21	10:10 Eastern	Water	Water	X	X	X	X	X	2	
WGWG-21 (180-126367-7)	8/26/21	11:30 Eastern	Water	Water	X	X	X	X	X	2	
WGWG-9 (180-126367-8)	8/26/21	13:00 Eastern	Water	Water	X	X	X	X	X	2	
WGWG-22 (180-126367-9)	8/26/21	15:20 Eastern	Water	Water	X	X	X	X	X	2	
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontractor 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.</p>											
Possible Hazard Identification											
Unconfirmed											
Deliverable Requested: I, II, III, IV, Other (specify)											
Primary Deliverable Rank: 2											
Empty Kit Relinquished by:											
Date: 8/20/21											
Relinquished by: <i>[Signature]</i>											
Date: 8/20/21 1700											
Relinquished by: FED EX											
Date: 8/20/21											
Relinquished by: <i>[Signature]</i>											
Date: 8/20/21 1005											
Relinquished by: EPA STL											
Date: 8/20/21											
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
Custody Seal No.:											
Cooler Temperature(s) °C and Other Remarks:											

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-126277-2

Login Number: 126277

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.	False	
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: 180-126277-2

Login Number: 126277

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/31/21 02:23 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	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-126277-2

Login Number: 126278

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.	False	
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: 180-126277-2

Login Number: 126278

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/31/21 02:27 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	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-126277-2

Login Number: 126364

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: 180-126277-2

Login Number: 126364

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/31/21 02:43 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: 180-126277-2

Login Number: 126367

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: 180-126277-2

Login Number: 126367

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/31/21 01:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C1: Data Validation Reports

Memorandum

Date: March 29, 2021
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
TestAmerica Laboratory Job IDs 180-116807-1 and 180-116807-2**

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 2-4 February 2021, 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
- Fluoride by USEPA Method 300.0

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
180-116807-1	Dup-1
180-116807-2	EB-1
180-116807-3	WGWA-1
180-116807-4	WGWA-2
180-116807-5	WGWA-18
180-116807-6	WGWA-3
180-116807-7	WGWA-4
180-116807-8	WGWA-7
180-116916-1	Dup-2
180-116916-2	FB-2
180-116916-3	WGWA-6
180-116916-4	WGWA-5
180-116916-5	WGWC-19

Laboratory ID	Client ID
180-116916-6	WGWC-11
180-116916-7	WGWC-12
180-116916-8	WGWC-8
180-116916-9	WGWC-15
180-116916-10	WGWC-16
180-116916-11	WGWC-17
180-116916-12	FB-1
180-116916-13	EB-2
180-116916-14	WGWC-9
180-116916-15	WGWC-10
180-116916-16	WGWC-13
180-116916-17	WGWC-14A

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.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The container labels for the two plastic liters for sample WGWC-12 did not match the collection date listed on the COC. The label listed a sample collection date of 2/2/21, while the COC lists 2/3/21. The container label for one out of two of the plastic liters for sample WGWC-17 did not match the collection date listed on the COC. The label listed a sample collection date of 3/2/21, while the COC lists 2/4/21. The samples were logged in per the COC.

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. (Mercury was evaluated separately in Section 2.0, below).

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 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%.

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). Two method blanks were reported (batches 346412 and 346791). Metals were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported using samples WGWA-1 and WGWA-6. 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). Two 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 and EB-2. Metals were not detected in the equipment blanks above the MDLs.

1.7 Field Blank

Two field blanks were collected with the sample set, FB-1 and FB-2. Metals were not detected in the field blanks above the MDLs.

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 < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, WGWA-3 and WGWC-15, respectively.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated nondetect results were 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). Three method blanks were reported (batches 345897, 346076 and 346077). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported using sample Dup-1. The recovery and RPD results were within the laboratory specified acceptance criteria.

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). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1 and EB-2. 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 and FB-2. 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-15, 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 FLUORIDE

The samples were analyzed for fluoride by USEPA method 300.0.

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
- ✓ Equipment Blank
- ⊗ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The fluoride 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 fluoride analysis of a water sample is 28 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 (batches 345752, 346231 and 346367). Fluoride was not detected in the method blanks above the MDL.

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). Three sample set specific MS/MSD pairs were reported using samples WGWA-7, WGWC-14A 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. The recovery results were within the laboratory specified acceptance criteria.

3.6 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1 and EB-2. Fluoride was not detected in the equipment blanks above the MDL.

3.7 Field Blank

Two field blanks were collected with the sample set, FB-1 and FB-2. Fluoride was not detected in FB-2.

Fluoride was detected in FB-1 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated fluoride 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	Fluoride	0.035	J	0.20	U	3
WGWA-1	Fluoride	0.028	J	0.20	U	3
WGWA-2	Fluoride	0.065	J	0.20	U	3
WGWA-18	Fluoride	0.071	J	0.20	U	3
WGWA-3	Fluoride	0.035	J	0.20	U	3
WGWA-4	Fluoride	0.15	J	0.20	U	3
WGWC-16	Fluoride	0.052	J	0.20	U	3
WGWC-17	Fluoride	0.064	J	0.20	U	3
WGWC-10	Fluoride	0.12	J	0.20	U	3
WGWC-13	Fluoride	0.16	J	0.20	U	3
WGWC-14A	Fluoride	0.033	J	0.20	U	3
WGWA-6	Fluoride	0.088	J	0.20	U	3
WGWC-11	Fluoride	0.027	J	0.20	U	3
WGWC-12	Fluoride	0.082	J	0.20	U	3
WGWC-8	Fluoride	0.15	J	0.20	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

3.8 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-15, respectively.

3.9 Sensitivity

The samples were reported to the MDL. No elevated nondetect results were reported.

3.10 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.

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

4.1.1 Completeness

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%.

4.1.2 Analysis Anomaly

The laboratory noted that during the in the growth process for the radium-226 and radium-228 analyses samples WGWA-5, WGWC-11, WGWC-15, WGWC-16, WGWC-10 and WGWC-13 were filtered. No qualifications were applied to the data, based on professional and technical judgment,

The radium-228 result for sample WGWA-5 was more negative than the total propagated uncertainty (TPU) (2σ). Therefore, the radium-228 and combined radium 226 + 228 results for sample WGWA-5 were UJ qualified as estimated less than the minimum detectable concentrations (MDCs).

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
WGWA-5	Radium-228	-0.358	U	-0.358	UJ	13
WGWA-5	Combined Radium 226 + 228	-0.314	U	-0.314	UJ	13

pCi/L-picocuries per liter

U-not detected at or above the MDC

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). Two method blanks were reported for the radium-226 data (batches 498078 and 498288). Three method blanks were reported for the radium-228 data (batches 498080, 498366 and 499478). Radium-226 and radium-228 were not detected in the method blanks above the MDCs.

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). One LCS and one LCS/LCS duplicate (LCSD) pair were reported for radium-226. One LCS and two 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 exceptions.

The laboratory noted the LCS recoveries were assessed to regulatory specified acceptance criteria of 75-125% instead of the laboratory statistical limits of 61-138%. Since the samples were not governed by the regulatory limits and based on professional and technical judgment, the sample validation was based on the laboratory statistical limits.

The recovery of radium-228 in the LCS in batch 498080 was high and outside of the laboratory specified acceptance criteria. The LCS recovery and RER of radium-228 in the LCS/LCSD pair in batch 498366 were high and outside of the laboratory specified acceptance criteria. Therefore, the radium concentrations in the associated samples greater than the MDCs were J+ qualified as estimated with high biases, in addition, the combined radium 226 + 228 concentrations in the associated samples greater than the MDCs were J+ qualified as estimated with high biases.

The recovery of radium-228 in the LCS in batch 499478 was high and outside of the regulatory specified acceptance criteria. Since the recovery of radium-228 in the LCS in batch 499478 was within the laboratory specified acceptance criteria, no qualifications were applied to the data.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
WGWA-4	Combined Radium 226 + 228	1.05	NA	1.05	J+	5
Dup-2	Radium-228	0.771	*	0.771	J+	5
Dup-2	Combined Radium 226 + 228	0.852	NA	0.852	J+	5
WGWC-19	Radium-228	0.639	*	0.639	J+	5
WGWC-19	Combined Radium 226 + 228	0.684	NA	0.684	J+	5
WGWC-11	Radium-228	0.620	*	0.620	J+	5
WGWC-11	Combined Radium 226 + 228	0.718	NA	0.718	J+	5
WGWC-14A	Combined Radium 226 + 228	0.564	NA	0.564	J+	5

pCi/L-picocuries per liter

NA-not applicable

*-laboratory flag indicating LCS and/or LCSD was outside of the acceptance limits

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. 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 and EB-2. Radium-226 and Radium-228 were not detected in the equipment blanks above the MDCs.

4.9 Field Blank

Two field blanks were collected with the sample set, FB-1 and FB-2. 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-15, respectively.

4.11 Sensitivity

The samples were reported to the MDCs. Samples WGWA-1, WGWA-3, WGWA-4, WGWA-7, WGWA-5, WGWC-17, FB-2, WGWA-6, WGWA-5, WGWC-8, WGWC-15 and WGWC-16 were analyzed at reduced sample volume for the radium-228 analyses. Samples WGWA-1, WGWA-3, WGWA-4, WGWA-7, WGWA-5 and WGWC-17 were analyzed at reduced sample volume for the radium-226 analyses. Therefore, elevated nondetect results were reported for these samples.

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.

* * * * *

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 of limits
5	LCS or RPD recovery outside of limits (LCS/LCSD)
6	Surrogate recovery outside of 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

Memorandum

Date: May 26, 2021
To: Adria Reimer
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
TestAmerica Laboratory Job ID 180-118172-1 Revision 2**

SITE: Plant Wansley Ash Pond PZ

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five aqueous samples, one field duplicate, one equipment blank and one field blank, collected 8-9 March 2021, as part of the Plant Wansley Ash Pond 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
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0 R2.1
- Acid Soluble and Insoluble Sulfide by US EPA Methods 9030B/9034
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Alkalinity by SM 2320 B

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 supporting 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) and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory report:

Laboratory ID	Client ID
180-118172-1	PZ-22
180-118172-2	PZ-23S
180-118172-3	PZ-24
180-118172-4	PZ-27S

Laboratory ID	Client ID
180-118172-5	PZ-27D
180-118172-6	FB-1
180-118172-7	Dup-1
180-118172-8	EB-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

A collection time was not documented on the chain of custody (COC) for field duplicate. The field duplicate was logged by the laboratory with the collection time of 00:00.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The laboratory report was revised twice. The first revision was provided on 19 March 2021 to change the reporting units of metals from µg/L to mg/L. The second revision was provided on 4 May 2021 to report lithium data for samples PZ-22, PZ-23S, PZ-24 and PZ-27S per the client's request. The revised report was identified as 180-118172-1 Revision 2.

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 supporting 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). One method blank was reported (batch 349140). Metals were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported using sample PZ-22. 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). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank, EB-1, was collected with the sample set. Metals were not detected in the equipment blank above the MDLs, with the following exception.

Boron was detected in EB-1 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since the boron concentration in EB-1 was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

1.7 Field Blank

One field blank, FB-1, was collected with the sample set. Metals were not detected in the field blank above the MDLs, with the following exception.

Boron was detected in FB-1 at an estimated concentration (0.075 mg/L) greater than the MDL and less than the RL. Therefore, the estimated boron concentration in EB-1 was U qualified as not detected at the RL, and the boron concentrations in the associated samples were J+ qualified as estimated with high biases, based on professional and technical judgment.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
EB-1	Boron	0.043	J	0.080	U	3
PZ-23S	Boron	0.19	NA	0.19	J+	3
PZ-24	Boron	0.33	NA	0.33	J+	3
PZ-27S	Boron	0.48	NA	0.48	J+	3
PZ-27D	Boron	0.23	NA	0.23	J+	3
Dup-1	Boron	0.49	NA	0.49	J+	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

NA-not applicable

* 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

1.8 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-1. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, PZ-27S, with the following exception.

The RPD for iron was greater than 20% in the field duplicate pair. Therefore, the iron concentrations in DUP-1 and PZ-27S were J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
PZ-27S	Iron	0.35	NA	33	0.35	J	7
Dup-1	Iron	0.25	NA		0.25	J	7

mg/L-milligrams per liter

NA-not applicable

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect 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 WET CHEMISTRY

The samples were analyzed for anions by USEPA method 300.0, sulfide by US EPA methods 9030B/9034, TDS by SM 2540C and total alkalinity by SM 2320 B. Total alkalinity results were reported as total alkalinity as CaCO₃ to pH 4.5 and bicarbonate alkalinity as CaCO₃.

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

2.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting 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%.

2.2 Holding Times

The holding times for a water sample are listed below. The holding times were met for the sample analyses.

Analysis	Holding Time
Anions	28 days from collection to analysis
Sulfide	7 days from collection to analysis
TDS	7 days from collection to analysis
Total Alkalinity	14 days from collection to analysis

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). One method blank was reported for the anions (batch 349204). Three method blanks were reported for TDS (batches 349481, 349487 and 349489). One method blank was reported for total alkalinity (batch 349535). One method blank was reported for sulfide (batch 349117). The wet chemistry parameters were not detected in the method blanks above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported for the anions using sample PZ-24. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of fluoride and sulfate in the MSD using sample PZ-24 were low and outside of the laboratory specified acceptance criteria. Therefore, the fluoride and sulfate concentrations in sample PZ-24 were J- qualified as estimated with low biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
PZ-24	Fluoride	1.1	NA	1.1	J-	4
PZ-24	Sulfate	80	NA	80	J-	4

mg/L-milligrams per liter

NA-not applicable

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). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS using sample PZ-23S. The RPD result was within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for total alkalinity using sample PZ-23S. The RPD result was within the laboratory specified acceptance criteria

2.7 Equipment Blank

One equipment blank, EB-1, was collected with the sample set. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

2.8 Field Blank

One field blank, FB-1, was collected with the sample set. The wet chemistry parameters were not detected in the field blank above the MDLs.

2.9 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-1. Acceptable precision (RPD $\leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicate and the original sample, PZ-27S, with the following exception.

Fluoride was detected at an estimated concentration greater than the MDL and less than the RL in the field duplicate sample DUP-1 and not detected in the parent sample PZ-27S, resulting in a noncalculable RPD result. Since the difference between the results were less than the RL, no qualifications were applied to the data.

2.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

2.11 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.

* * * * *

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

Memorandum

Date: May 26, 2021
To: Adria Reimer
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
TestAmerica Laboratory Job ID 180-118348-1 Revision 1**

SITE: Plant Wansley Ash Pond PZ

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 10-12 March 2021, as part of the Plant Wansley Ash Pond 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
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0 R2.1
- Acid Soluble and Insoluble Sulfide by US EPA Methods 9030B/9034
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Alkalinity by SM 2320 B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives, with the following exceptions.

The non-detect total alkalinity results in EB-1, EB-2, FB-1 and FB-2 were R qualified as rejected due to holding time exceedances.

The qualified data that were not rejected should be used within the limitations of the qualifications.

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) and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory report:

Laboratory ID	Client ID
180-118348-1	WGWA-1
180-118348-2	WGWA-2
180-118348-3	WGWA-3
180-118348-4	WGWA-4
180-118348-5	WGWA-5
180-118348-6	WGWA-6
180-118348-7	WGWA-7
180-118348-8	WGWA-18
180-118348-9	WGWC-8
180-118348-10	Dup-1
180-118348-11	WGWC-16
180-118348-12	WGWC-17
180-118348-13	EB-1

Laboratory ID	Client ID
180-118348-14	EB-2
180-118348-15	FB-1
180-118398-1	WGWC-15
180-118398-2	WGWC-10
180-118398-3	WGWC-11
180-118398-4	WGWC-13
180-118398-5	WGWC-14A
180-118398-6	WGWC-9
180-118398-7	WGWC-19
180-118398-8	Dup-2
180-118398-9	FB-2
180-118398-10	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 the field duplicates. The field duplicates were logged by the laboratory with the collection time of 00:00.

The laboratory report was revised on 21 April 2021 to correctly report the thallium result from the reanalysis of WGWC-10. The revised report was identified as 180-118348-1 Revision 1.

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

1.1.1 Completeness

The metals data reported in this data package are considered usable for supporting 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%.

1.1.2 Analysis Anomaly

The narrative indicated the recovery for selenium in the continuing calibration verification (CCV) in batch 350467 was outside the method specified acceptance criteria with a high bias. Since selenium was not detected in the associated samples, no qualifications were applied to the data.

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 350102, 350579 and 352257). 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 WGWA-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). Two LCSs and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1 and EB-2. Metals were not detected in the equipment blanks above the MDLs.

1.7 Field Blank

Two field blanks were collected with the sample set, FB-1 and FB-2. Metals were not detected in the field blanks above the MDLs.

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-2 and WGWC-19, respectively, with the following exceptions.

The RPD result for iron was greater than 20% in field duplicate pair DUP-2/WGWC-19. Therefore, the iron concentrations in DUP-2 and WGWC-19 were J qualified as estimated.

The RPD results for barium, calcium, magnesium, potassium and sodium were greater than 20% in field duplicate pair DUP-1/WGWA-2. Therefore, the barium, calcium, magnesium, potassium and sodium concentrations in DUP-1 and WGWA-2 were J qualified as estimated.

Arsenic, beryllium, boron, cobalt, lead and thallium were detected at concentrations greater than the RLs in parent sample WGWA-2 and not detected in field duplicate DUP-1, resulting in noncalculable RPDs between the results. Since the differences between the results were less than the RLs, no qualifications were applied to the data.

Lithium was detected at a concentration greater than the RL in parent sample WGWA-2 and was detected in field duplicate DUP-1. Therefore, the lithium concentration in WGWA-2 was J qualified and the non-detect result in DUP-1 was UJ qualified as estimated less than the MDL.

Manganese was detected at a concentration greater than the RL in parent sample WGWA-2 and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate DUP-1 and the difference between the concentrations was greater than the RL. Therefore, the manganese concentrations in WGWA-2 and DUP-1 were J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
Dup-1	Barium	0.013	NA	59	0.013	J	7
WGWA-2	Barium	0.024	NA		0.024	J	7
Dup-1	Calcium	1.8	NA	144	1.8	J	7
WGWA-2	Calcium	11	NA		11	J	7
Dup-1	Lithium	0.0050	U	NC	0.0050	UJ	7
WGWA-2	Lithium	0.0075	NA		0.0075	J	7
Dup-1	Magnesium	1.1	NA	117	1.1	J	7
WGWA-2	Magnesium	4.2	NA		4.2	J	7
Dup-1	Manganese	0.0012	J	NC	0.0012	J	7
WGWA-2	Manganese	0.032	NA		0.032	J	7
Dup-1	Potassium	1.2	NA	63	1.2	J	7
WGWA-2	Potassium	2.3	NA		2.3	J	7
Dup-1	Sodium	2.7	NA	109	2.7	J	7
WGWA-2	Sodium	9.2	NA		9.2	J	7
Dup-2	Iron	0.053	NA	60	0.053	J	7
WGWC-19	Iron	0.098	NA		0.098	J	7

mg/L-milligrams per liter

NA-not applicable

NC-not calculable

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

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect 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 WET CHEMISTRY

The samples were analyzed for anions by USEPA method 300.0, sulfide by US EPA methods 9030B/9034, TDS by SM 2540C and total alkalinity by SM 2320 B. Total alkalinity results were reported as total alkalinity as CaCO₃ to pH 4.5 and bicarbonate alkalinity as CaCO₃.

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

2.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting project objectives, with the following exceptions. The non-detect total alkalinity results in EB-1, EB-2, FB-1 and FB-2 were R qualified as rejected due to holding time exceedances. 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 95.4%.

2.2 Holding Times

The holding times for a water sample are listed below. The holding times were met for the sample analyses, with the following exceptions.

Analysis	Holding Time
Anions	28 days from collection to analysis
Sulfide	7 days from collection to analysis
TDS	7 days from collection to analysis
Total Alkalinity	14 days from collection to analysis

Samples Dup-1 and WGWA-18 were analyzed outside of the holding time requirement for TDS. Therefore, the TDS concentrations in Dup-1 and WGWA-18 were J qualified as estimated.

Samples WGWA-1, Dup-1, WGWA-2, WGWC-16, WGWC-17, WGWA-3, EB-1, WGWA-4, WGWA-5, EB-2, WGWA-6, WGWA-7, FB-1, WGWA-18, WGWC-8, WGWC-15, WGWC-12, WGWC-10, WGWC-11, WGWC-13, WGWC-14A, WGWC-9, WGWC-19, Dup-2 and FB-2 were analyzed outside of the holding time requirement for total alkalinity. Therefore, the total alkalinity as CaCO₃ to pH 4.5 and bicarbonate alkalinity as CaCO₃ concentrations in the samples were J qualified as estimated, and the non-detect total alkalinity as CaCO₃ to pH 4.5 and bicarbonate alkalinity as CaCO₃ results in the samples were R qualified as rejected.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
Dup-1	Alkalinity Total as CaCO ₃	11	H	11	J	2
Dup-1	Dissolved Solids	29	H	29	J	2
Dup-1	Bicarbonate Alkalinity as CaCO ₃	11	H	11	J	2
Dup-2	Alkalinity Total as CaCO ₃	90	H	90	J	2
Dup-2	Bicarbonate Alkalinity as CaCO ₃	90	H	90	J	2
EB-1	Alkalinity Total as CaCO ₃	5.0	U, H	5.0	R	2
EB-1	Bicarbonate Alkalinity as CaCO ₃	5.0	U, H	5.0	R	2
EB-2	Alkalinity Total as CaCO ₃	5.0	U, H	5.0	R	2
EB-2	Bicarbonate Alkalinity as CaCO ₃	5.0	U, H	5.0	R	2
FB-1	Alkalinity Total as CaCO ₃	5.0	U, H	5.0	R	2
FB-1	Bicarbonate Alkalinity as CaCO ₃	5.0	U, H	5.0	R	2
FB-2	Alkalinity Total as CaCO ₃	5.0	U, H	5.0	R	2
FB-2	Bicarbonate Alkalinity as CaCO ₃	5.0	U, H	5.0	R	2
WGWA-1	Alkalinity Total as CaCO ₃	7.8	H	7.8	J	2
WGWA-1	Bicarbonate Alkalinity as CaCO ₃	7.8	H	7.8	J	2
WGWA-18	Alkalinity Total as CaCO ₃	31	H	31	J	2
WGWA-18	Dissolved Solids	72	H	72	J	2
WGWA-18	Bicarbonate Alkalinity as CaCO ₃	31	H	31	J	2
WGWA-2	Alkalinity Total as CaCO ₃	61	H	61	J	2
WGWA-2	Bicarbonate Alkalinity as CaCO ₃	61	H	61	J	2
WGWA-3	Alkalinity Total as CaCO ₃	11	H	11	J	2

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Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWA-3	Bicarbonate Alkalinity as CaCO ₃	11	H	11	J	2
WGWA-4	Alkalinity Total as CaCO ₃	61	H	61	J	2
WGWA-4	Bicarbonate Alkalinity as CaCO ₃	61	H	61	J	2
WGWA-5	Alkalinity Total as CaCO ₃	7.6	H	7.6	J	2
WGWA-5	Bicarbonate Alkalinity as CaCO ₃	7.6	H	7.6	J	2
WGWA-6	Alkalinity Total as CaCO ₃	86	H	86	J	2
WGWA-6	Bicarbonate Alkalinity as CaCO ₃	86	H	86	J	2
WGWA-7	Alkalinity Total as CaCO ₃	7.5	H	7.5	J	2
WGWA-7	Bicarbonate Alkalinity as CaCO ₃	7.5	H	7.5	J	2
WGWC-10	Alkalinity Total as CaCO ₃	32	H	32	J	2
WGWC-10	Bicarbonate Alkalinity as CaCO ₃	32	H	32	J	2
WGWC-11	Alkalinity Total as CaCO ₃	9.7	H	9.7	J	2
WGWC-11	Bicarbonate Alkalinity as CaCO ₃	9.7	H	9.7	J	2
WGWC-12	Alkalinity Total as CaCO ₃	46	H	46	J	2
WGWC-12	Bicarbonate Alkalinity as CaCO ₃	46	H	46	J	2
WGWC-13	Alkalinity Total as CaCO ₃	33	H	33	J	2
WGWC-13	Bicarbonate Alkalinity as CaCO ₃	33	H	33	J	2
WGWC-14A	Alkalinity Total as CaCO ₃	32	H	32	J	2
WGWC-14A	Bicarbonate Alkalinity as CaCO ₃	32	H	32	J	2
WGWC-15	Alkalinity Total as CaCO ₃	99	H	99	J	2
WGWC-15	Bicarbonate Alkalinity as CaCO ₃	99	H	99	J	2
WGWC-16	Alkalinity Total as CaCO ₃	8.3	H	8.3	J	2
WGWC-16	Bicarbonate Alkalinity as CaCO ₃	8.3	H	8.3	J	2
WGWC-17	Alkalinity Total as CaCO ₃	44	H	44	J	2
WGWC-17	Bicarbonate Alkalinity as CaCO ₃	44	H	44	J	2
WGWC-19	Alkalinity Total as CaCO ₃	88	H	88	J	2
WGWC-19	Bicarbonate Alkalinity as CaCO ₃	88	H	88	J	2
WGWC-8	Alkalinity Total as CaCO ₃	6.8	H	6.8	J	2
WGWC-8	Bicarbonate Alkalinity as CaCO ₃	6.8	H	6.8	J	2

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWC-9	Alkalinity Total as CaCO ₃	38	H	38	J	2
WGWC-9	Bicarbonate Alkalinity as CaCO ₃	38	H	38	J	2

mg/L-milligrams per liter

H-laboratory flag indicating the sample was prepared or analyzed beyond the specific holding time

U-not detected at a concentration greater than or equal to the MDL

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). Three method blanks were reported for anions (two for batch 350116 and one for batch 350369). Five method blanks were reported for TDS (batches 349759, 349921, 349926, 350089 and 350091). Five method blanks were reported for total alkalinity (three for batch 350921 and one each for batches 350993 and 351516). Three method blanks were reported for sulfide (batches 349361, 349362 and 349716). The wet chemistry parameters were not detected in the method blanks above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

Three sample set specific MS/MSD pairs were reported for the anions using samples WGWA-1, Dup-1 and WGWC-15. The recovery and RPD results were within the laboratory specified acceptance criteria.

Two sample set specific MS/MSD pairs were reported for sulfide using samples WGWA-1 and FB-2. The recovery and RPD results were within the laboratory specified acceptance criteria.

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). An LCS and/or low level LCS (LLCS) were reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported for TDS using samples WGWC-14A and WGWA-18. The RPD results were within the laboratory specified acceptance criteria.

Three sample set specific laboratory duplicates were reported for total alkalinity using samples WGWA-18, EB-1 and FB-1. The RPD results were within the laboratory specified acceptance criteria

2.7 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1 and EB-2. The wet chemistry parameters were not detected in the equipment blanks above the MDLs.

2.8 Field Blank

Two field blanks were collected with the sample set, FB-1 and FB-2. The wet chemistry parameters were not detected in the field blanks above the MDLs.

2.9 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-2 and WGWC-19, respectively, with the following exceptions.

The RPD results for chloride, TDS, bicarbonate alkalinity as $CaCO_3$ and total alkalinity as $CaCO_3$ were greater than 20% in field duplicate pair DUP-1/WGWA-2. Therefore, the chloride, TDS, bicarbonate alkalinity as $CaCO_3$ and total alkalinity as $CaCO_3$ in DUP-1 and WGWA-2 were J qualified as estimated.

Fluoride was detected at a concentration greater than the RL in parent sample WGWA-2 and not detected in field duplicate DUP-1, resulting in a noncalculable RPD result. Since the difference between the results were less than the RL, no qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
Dup-1	Bicarbonate alkalinity as $CaCO_3$	11	H	139	11	J	7
WGWA-2	Bicarbonate alkalinity as $CaCO_3$	61	H		61	J	7
Dup-1	Alkalinity Total as $CaCO_3$	11	H	139	11	J	7
WGWA-2	Alkalinity Total as $CaCO_3$	61	H		61	J	7
Dup-1	Chloride	1.7	NA	42	1.7	J	7
WGWA-2	Chloride	2.6	NA		2.6	J	7
Dup-1	Dissolved Solids	29	H	110	29	J	7
WGWA-2	Dissolved Solids	100	NA		100	J	7

mg/L-milligrams per liter

H-laboratory flag indicating the sample was prepared or analyzed beyond the specified holding time

NA-not applicable

2.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

2.11 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.

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Memorandum

Date: May 28, 2021
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
TestAmerica Laboratory Job ID 180-118348-2**

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 10-12 March 2021, as part of the Plant Wansley AP on-site sampling event.

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:

- 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
180-118348-1	WGWA-1
180-118348-2	WGWA-2
180-118348-3	WGWA-3
180-118348-4	WGWA-4
180-118348-5	WGWA-5
180-118348-6	WGWA-6
180-118348-7	WGWA-7
180-118348-8	WGWA-18
180-118348-9	WGWC-8
180-118348-10	Dup-1
180-118348-11	WGWC-16
180-118348-12	WGWC-17
180-118348-13	EB-1

Laboratory ID	Client ID
180-118348-14	EB-2
180-118348-15	FB-1
180-118398-1	WGWC-15
180-118398-2	WGWC-10
180-118398-3	WGWC-11
180-118398-4	WGWC-13
180-118398-5	WGWC-14A
180-118398-6	WGWC-9
180-118398-7	WGWC-19
180-118398-8	Dup-2
180-118398-9	FB-2
180-118398-10	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 the field duplicates. The field duplicates were logged by the laboratory with the collection time of 00:00.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

1.0 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

1.1 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%.

1.2 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.

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). Two method blanks were reported for the radium-226 data (batches 502473 and 502505). Two method blanks were reported for the radium-228 data (batches 502475 and 502508). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

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). One LCS and one LCS/LCS duplicate (LCSD) pair were reported for radium-226. One LCS and one LCS/LCSD pair were reported for radium-228. The recovery and replicate error ratio (RER) [2 sigma (2σ)] results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Two laboratory duplicates were reported using sample WGWC-17, one each for radium-226 and radium-228. The RER results were within the laboratory specified acceptance criteria.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Equipment Blank

Two equipment blanks were collected with the sample set, EB-1 and EB-2. Radium-226 and Radium-228 were not detected in the equipment blanks above the MDCs.

1.9 Field Blank

Two field blanks were collected with the sample set, FB-1 and FB-2. Radium-226 and Radium-228 were not detected in the field blanks above the MDCs.

1.10 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-2 and WGWC-19, respectively.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated nondetect results were reported.

1.12 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.

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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 of limits
5	LCS or RPD recovery outside of limits (LCS/LCSD)
6	Surrogate recovery outside of 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

Memorandum

Date: May 26, 2021
To: Adria Reimer
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
TestAmerica Laboratory Job ID 180-118350-1 Revision 1**

SITE: Plant Wansley Ash Pond PZ

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six aqueous samples, one field duplicate, one equipment blank and one field blank, collected 9 and 11 March 2021, as part of the Plant Wansley Ash Pond 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
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0 R2.1
- Acid Soluble and Insoluble Sulfide by US EPA Methods 9030B/9034
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Total Alkalinity by SM 2320 B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives, with the following exceptions.

The non-detect TDS results in EB-2 and FB-2 were R qualified as rejected due to holding time exceedances.

The qualified data that were not rejected should be used within the limitations of the qualifications.

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) and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory report:

Laboratory ID	Client ID
180-118350-1	PZ-23D
180-118350-2	PZ-25S
180-118350-3	PZ-26S
180-118350-4	PZ-26D
180-118350-5	PZ-28

Laboratory ID	Client ID
180-118350-6	EB-2
180-118350-7	Dup-2
180-118350-8	FB-2
180-118350-9	PZ-29D

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

A collection time was not documented on the chain of custody (COC) for the field duplicate. The field duplicate was logged by the laboratory with the collection time of 00:00.

The laboratory report was revised on 4 May 2021 to report lithium data for samples PZ-25S and PZ-26S per the client's request. The revised report was identified as 180-118350-1 Revision 1.

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

1.1.1 Completeness

The metals data reported in this data package are considered usable for supporting 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%.

1.1.2 Analysis Anomaly

The laboratory noted the recovery of boron was high in a continuing calibration verification (CCV) in batch 349781. Since boron was not detected in the associated samples, no qualifications were applied to the data.

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). One method blank was reported (batch 349566). Metals were not detected in the method blank above the method detection limits (MDLs), with the following exception.

Manganese was detected in the method blank in batch 349566 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Therefore, the estimated manganese 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**
EB-2	Manganese	0.0014	J B	0.0050	U	3
FB-2	Manganese	0.00094	J B	0.0050	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

B-laboratory flag indicating the compound was found in the blank and sample

* 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

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported using sample PZ-23D. 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). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank, EB-2, was collected with the sample set. Metals were not detected in the equipment blank above the MDLs, with the following exception.

Manganese was detected in EB-2 at an estimated concentration greater than the MDL and less than the RL. Since the manganese concentration in EB-2 was U qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

1.7 Field Blank

One field blank, FB-2, was collected with the sample set. Metals were not detected in the field blank above the MDLs, with the following exceptions.

Boron and manganese detected in FB-2 at estimated concentrations greater than the MDLs and less than the RLs. Since the manganese concentration in FB-2 was U qualified due to method blank contamination, no additional qualifications were applied to the manganese data. However, the estimated boron concentrations in PZ-25S and PZ-28 were U qualified as not detected at the RL, and the boron concentrations in PZ-26D and DUP-2 were J+ qualified as estimated with high biases, based on professional and technical judgment.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
PZ-25S	Boron	0.073	J	0.080	U	3
PZ-26D	Boron	0.22	NA	0.22	J+	3
PZ-28	Boron	0.044	J	0.080	U	3

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
DUP-2	Boron	0.16	NA	0.16	J+	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

NA-not applicable

1.8 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-2. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, PZ-26D, with the following exception.

The RPD result for boron was greater than 20% in the field duplicate pair. Therefore, the boron concentrations in DUP-2 and PZ-26D were J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
PZ-26D	Boron	0.22	NA	32	0.22	J	7
DUP-2	Boron	0.16	NA		0.16	J	7

mg/L-milligrams per liter

NA-not applicable

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect 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 WET CHEMISTRY

The samples were analyzed for anions by USEPA method 300.0, sulfide by US EPA methods 9030B/9034, TDS by SM 2540C and total alkalinity by SM 2320 B. Total alkalinity results were reported as total alkalinity as CaCO₃ to pH 4.5 and bicarbonate alkalinity as CaCO₃.

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

2.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting project objectives, with the following exceptions. The non-detect TDS results in EB-2 and FB-2 were R qualified as rejected due to holding time exceedances. 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 96.8%.

2.2 Holding Times

The holding times for a water sample are listed below. The holding times were met for the sample analyses, with the following exceptions.

Analysis	Holding Time
Anions	28 days from collection to analysis
Sulfide	7 days from collection to analysis
TDS	7 days from collection to analysis
Total Alkalinity	14 days from collection to analysis

Samples PZ-23D, PZ-25S, PZ-26S, PZ-26D, PZ-28, EB-2, Dup-2 and FB-2 were analyzed two days outside of the holding time requirement. Therefore, the TDS concentrations in PZ-23D, PZ-25S, PZ-26S, PZ-26D, PZ-28 and Dup-2 were J qualified as estimated, and the non-detect TDS results in EB-2 and FB-2 were R qualified as rejected.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
PZ-23D	Dissolved Solids	300	NA	300	J	2

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
PZ-25S	Dissolved Solids	79	NA	79	J	2
PZ-26S	Dissolved Solids	370	NA	370	J	2
PZ-26D	Dissolved Solids	180	NA	180	J	2
PZ-28	Dissolved Solids	53	NA	53	J	2
EB-2	Dissolved Solids	10	U	10	R	2
Dup-2	Dissolved Solids	170	NA	170	J	2
FB-2	Dissolved Solids	10	U	10	R	2

mg/L-milligrams per liter

NA-not applicable

U-not detected at a concentration greater than or equal to the MDL

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). One method blank was reported for anions (batch 349310). One method blank was reported for TDS (batch 349924). One method blank was reported for total alkalinity (batch 349682). One method blank was reported for sulfide (batch 349361). The wet chemistry parameters were not detected in the method blanks above the MDLs, with the following exception.

Sulfate was detected in the method blank in batch 349310 at an estimated concentration greater than the MDL and less than the RL. Since sulfate was detected in the associated samples at concentrations greater than the RL, no qualifications were applied to the data.

2.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported for the anions using sample PZ-26D. The recovery and RPD results were within the laboratory specified acceptance criteria.

One sample set specific MS/MSD pair was reported for sulfide using sample PZ-25S. The recovery and RPD results were within the laboratory specified acceptance criteria.

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). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS using sample Dup-2. The RPD result was within the laboratory specified acceptance criteria.

One sample set specific laboratory duplicate was reported for total alkalinity using sample PZ-25S. The RPD result was within the laboratory specified acceptance criteria

2.7 Equipment Blank

One equipment blank, EB-1, was collected with the sample set. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

2.8 Field Blank

One field blank, FB-1, was collected with the sample set. The wet chemistry parameters were not detected in the field blank above the MDLs.

2.9 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-1. Acceptable precision (RPD $\leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicate and the original sample, PZ-26D, with the following exception.

Sulfide was detected at a concentration greater than the RL in the field duplicate sample DUP-2 and not detected in the parent sample PZ-26D, resulting in a noncalculable RPD result. Since the difference between the results were less than the RL, no qualifications were applied to the data.

2.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

2.11 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.

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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

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

Memorandum

Date: May 26, 2021
To: Adria Reimer
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
TestAmerica Laboratory Job ID 180-119811-1 Revision 1**

SITE: Plant Wansley Ash Pond PZ

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eleven aqueous samples, two field duplicates, two equipment blanks and two field blanks, collected 7-8 April 2021, as part of the Plant Wansley Ash Pond 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
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0 R2.1
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

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) and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory report:

Laboratory ID	Client ID
180-119811-1	PZ-22
180-119811-2	PZ-23S
180-119811-3	PZ-24
180-119811-4	PZ-25S
180-119811-5	PZ-26S
180-119811-6	PZ-26D
180-119811-7	PZ-28
180-119811-8	EB-2
180-119811-9	FB-2

Laboratory ID	Client ID
180-119811-10	Dup-2
180-119811-11	Dup-1
180-119811-12	FB-1
180-119811-13	EB-1
180-119811-14	PZ-27D
180-119811-15	PZ-23D
180-119811-16	PZ-29D
180-119811-17	PZ-27S

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 the field duplicates. The field duplicates were logged by the laboratory with the collection time of 00:00.

The laboratory report was revised on 4 May 2021 to report lithium data for samples PZ-22, PZ-23S, PZ-24, PZ-25S, PZ-26S and PZ-27S per the client's request. The revised report was identified as 180-119811-1 Revision 1.

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 supporting 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). One method blank was reported (batch 352766). Metals were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported using sample PZ-22. 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). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

Two equipment blanks, EB-1 and EB-2 were collected with the sample set. Metals were not detected in the equipment blanks above the MDLs.

1.7 Field Blank

Two field blanks, FB-1 and FB-2 were collected with the sample set. Metals were not detected in the field blanks above the MDLs.

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 < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, PZ-23D and PZ-26S; respectively.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect 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 WET CHEMISTRY

The samples were analyzed for anions by USEPA method 300.0 and TDS by SM 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

2.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting 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%.

2.2 Holding Times

The holding times for a water sample are listed below. The holding times were met for the sample analyses.

Analysis	Holding Time
Anions	28 days from collection to analysis
TDS	7 days from collection to analysis

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). Two method blanks were reported for anions (both from batch 352846). One method blank was reported for TDS (batch 353099). The wet chemistry parameters were not detected in the method blanks above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

Three sample set specific MS/MSD pairs were reported for the anions using samples PZ-24, PZ-25S and PZ-28. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of fluoride in the MS/MSD pair using sample PZ-24 were low and outside of the laboratory specified acceptance criteria. Therefore, the fluoride concentration in PZ-24 was J-qualified as estimated with a low bias.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
PZ-24	Fluoride	1.4	F1	1.4	J-	4

mg/L-milligrams per liter

F1-laboratory flag indicating the MS and/or MSD recovery exceeds control limits

* 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

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). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

2.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS using sample DUP-2. The RPD result was within the laboratory specified acceptance criteria.

2.7 Equipment Blank

Two equipment blanks, EB-1 and EB-2 were collected with the sample set. Metals were not detected in the equipment blanks above the MDLs.

2.8 Field Blank

Two field blanks, FB-1 and FB-2 were collected with the sample set. Metals were not detected in the field blanks above the MDLs .

2.9 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, PZ-23D and PZ-26S; respectively.

2.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

2.11 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.

* * * * *

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

Memorandum

Date: November 4, 2021
To: Adria Reimer
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins TestAmerica Laboratory Job IDs 180-126277-1 Revision 1 and 180-126277-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-five aqueous samples, three field duplicate samples, three equipment blanks and three field blanks, collected 23-26 August 2021, as part of the Plant Wansley Ash Pond 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 US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C

The samples were analyzed at Eurofins TestAmerica St. Louis, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

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) and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); 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
180-126277-1	WGWA-5
180-126277-2	FB-1
180-126277-3	WGWA-6
180-126277-4	WGWA-7
180-126277-5	Dup-1
180-126278-1	WGWA-2
180-126278-2	EB-1
180-126278-3	WGWA-1
180-126278-4	WGWA-4
180-126364-1	WGWA-18
180-126364-2	WGWC-13
180-126364-3	WGWC-14A
180-126364-4	EB-2
180-126364-5	WGWC-17
180-126364-6	WGWC-19
180-126364-7	Dup-2
180-126364-8	WGWC-10

Laboratory ID	Client ID
180-126364-9	WGWC-24
180-126364-10	Dup-3
180-126364-11	WGWC-25
180-126364-12	WGWC-8
180-126364-13	WGWC-15
180-126364-14	WGWC-20
180-126364-15	WGWC-23
180-126364-16	FB-3
180-126367-1	WGWA-3
180-126367-2	WGWC-11
180-126367-3	WGWC-12
180-126367-4	FB-2
180-126367-5	WGWC-16
180-126367-6	EB-3
180-126367-7	WGWC-21
180-126367-8	WGWC-9
180-126367-9	WGWC-22

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

A collection time was not documented on the chain of custody (COC) for the field duplicate samples. The field duplicate samples were logged by the laboratory with the collection time of 00:00.

180-126277-1 and 180-126277-2: The laboratory noted the container label for sample EB-1 was listed as EB-2 on the container labels. The sample was logged in as EB-1 per the COC.

180-126277-2: The laboratory narrative indicated the sample containers for WGWA-5, FB-1, WGWA-6, WGWA-7 and Dup-1 did not match the information on the COC. Two nitric preserved

sample containers were received for these samples, and the radiochemistry analyses were not requested on the COC. The radiochemistry analyses were added for the samples.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

180-126277-1: The laboratory report was revised to include the reanalysis results for sample EB-3, per the client's request. The revised report was identified as 180-126277-1 Revision 1.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

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 supporting 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). Four method blanks were reported (batches 369722, 369957, 369963 and 369967). 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 WGWC-10. 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). Four LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

Three equipment blanks, EB-1, EB-2 and EB-3 were collected with the sample set. Metals were not detected in the equipment blanks above the MDLs.

1.7 Field Blank

Three field blanks, FB-1, FB-2 and FB-3 were collected with the sample set. Metals were not detected in the field blanks above the MDLs.

1.8 Field Duplicate

Three field duplicate samples, Dup-1, Dup-2 and Dup-3 were collected with the sample set. Acceptable precision [RPD \leq 20% or the difference between the concentrations < reporting limit (RL)] was demonstrated between the field duplicates and the original samples, WGWA-7, WGWC-19 and WGWC-24; respectively, with the following exception.

Chromium was detected at a concentration greater than the RL in the field duplicate sample Dup-3 and not detected in the parent sample WGWC-24, resulting in a noncalculable RPD result.

Therefore, the chromium concentration in Dup-3 was J qualified as estimated and the non-detect result in WGWC-24 was UJ qualified as estimated less than the MDL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
Dup-3	Chromium	0.0021	NA	0.0021	J	7
WGWC-24	Chromium	0.0015	U	0.0015	UJ	7

mg/L-milligrams per liter

U-not detected at or above the MDL

NA-not applicable

* 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

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect 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 US EPA 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 Deliverable Review

2.1 Overall Assessment

The mercury data reported in this data package are considered usable for supporting 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 the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses, with the following exception.

Sample EB-3 was reanalyzed outside the 28 days holding time requirement. Both sets of results were reported in the laboratory report and EDD. The initial analysis was considered for validation, and marked as “Yes” in the Reportable column of the EDD.

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). Two method blanks were reported (batches 370941 and 372692). 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). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

Three equipment blanks were collected with the sample set, and EB-3 was analyzed for mercury per the COC.

Mercury was detected in the equipment blank EB-3 at an estimated concentration greater than the MDL and less than the RL. Since the estimated mercury concentration in EB-3 was U qualified as not detected at the RL due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

2.7 Field Blank

Three field blanks were collected with the sample set, and FB-3 was analyzed for mercury per the COC.

Mercury (0.00020 mg/L) was detected in the field blank FB-3 at a concentration greater than the RL. Therefore, the mercury concentrations in the associated samples greater than the field blank concentration and less than ten times the field blank concentration were J+ qualified as estimated with high biases, the estimated mercury concentrations in samples WGWC-22 and EB-3 were U qualified as not detected at the RL and the mercury concentration in sample WGWC-21 was U qualified as not detected at the reported concentration.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
Dup-3	Mercury	0.00026	NA	0.00026	J+	3
WGWC-25	Mercury	0.0019	NA	0.0019	J+	3
WGWC-20	Mercury	0.00033	NA	0.00033	J+	3
WGWC-23	Mercury	0.00022	NA	0.00022	J+	3
WGWC-24	Mercury	0.00026	NA	0.00026	J+	3
EB-3	Mercury	0.00019	J	0.00020	U	3
WGWC-21	Mercury	0.00020	NA	0.00020	U	3
WGWC-22	Mercury	0.00018	J	0.00020	U	3

mg/L-milligram per liter

J-estimated concentration greater than or equal to the MDL and less than the RL

NA-not applicable

2.8 Field Duplicate

Three field duplicate samples were collected with the sample set. The field duplicate pairs were not analyzed for mercury per the COC.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID 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 US EPA method 300.0 and TDS by SM 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 package are considered usable for supporting 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). Six method blanks were reported for the anions (batches 370384, 370761, 370919, 370999, 371083 and 371996). Six method blanks were reported for TDS (batches 369661, 369673, 369797, 369958, 369959 and 370094). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

Six sample set specific MS/MSD pairs were reported for the anions using samples WGWA-2, WGWA-5, WGWA-18, WGWC-25, WGWC-9 and WGWA-2. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The MSD recoveries of chloride and sulfate in the MS/MSD pair using sample WGWA-5 were high and outside the laboratory specified acceptance criteria. Therefore, the chloride and sulfate concentrations in sample WGWA-5 were J+ qualified as estimated with high biases.

The MSD recovery of chloride in the MS/MSD pair using sample WGWC-25 was low and outside the laboratory specified acceptance criteria. Therefore, the chloride concentration in sample WGWC-25 was J- qualified as estimated with a low bias.

The MS recoveries of fluoride and sulfate in the MS/MSD pair using sample WGWC-9 were low and outside the laboratory specified acceptance criteria. The MSD recoveries of chloride, fluoride and sulfate and RPD results for chloride and sulfate in the MS/MSD pair using sample WGWC-9 were high and outside the laboratory specified acceptance criteria. Therefore, the chloride, fluoride and sulfate in sample WGWC-9 were J qualified as estimated.

The MSD recovery of chloride in the MS/MSD pair using sample WGWA-2 was high and outside the laboratory specified acceptance criteria. Therefore, the chloride concentration in sample WGWA-2 was J+ qualified as estimated with a high bias.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWA-2	Chloride	3.3	F1	3.3	J+	4
WGWA-5	Chloride	2.1	F1	2.1	J+	4
WGWA-5	Sulfate	2.8	F1	2.8	J+	4
WGWC-25	Chloride	79	F1	79	J-	4
WGWC-9	Chloride	3.1	F2 F1	3.1	J	4
WGWC-9	Fluoride	1.0	F1	1.0	J	4
WGWC-9	Sulfate	52	F2 F1	52	J	4

mg/L-milligrams per liter

F1-laboratory flag indicating the MS and/or MSD recovery exceeds control limits

F2-laboratory flag indicating the MS/MSD RPD exceeds control limits

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). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Three sample set specific laboratory duplicates were reported for TDS using samples WGWA-2, WGWC-16 and WGWC-19. The RPD results were within the laboratory specified acceptance criteria.

3.7 Equipment Blank

Three equipment blanks, EB-1, EB-2 and EB-3 were collected with the sample set. The wet chemistry parameters were not detected in the equipment blanks above the MDLs, with the following exceptions.

Fluoride was detected in the equipment blanks EB-2 and EB-3 at estimated concentrations greater than the MDLs and less than the RLs. Since the estimated fluoride concentrations in EB-2 and EB-3 were U qualified as not detected at the RL due to field blank contamination, no additional qualifications were applied to the data.

3.8 Field Blank

Three field blanks, FB-1, FB-2 and FB-3 were collected with the sample set. The wet chemistry parameters were not detected in the field blanks above the MDLs, with the following exceptions.

Fluoride was detected in the field blanks FB-1, FB-2 and FB-3 at estimated concentrations greater than the MDLs and less than the RLs. Therefore, the estimated fluoride 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
EB-2	Fluoride	0.037	J	0.10	U	3
EB-3	Fluoride	0.058	J	0.10	U	3
WGWA-1	Fluoride	0.062	J	0.10	U	3
WGWA-2	Fluoride	0.097	J	0.10	U	3
WGWA-3	Fluoride	0.077	J	0.10	U	3
WGWA-5	Fluoride	0.073	J	0.10	U	3
WGWA-7	Fluoride	0.054	J	0.10	U	3
WGWC-11	Fluoride	0.056	J	0.10	U	3
WGWC-14A	Fluoride	0.071	J	0.10	U	3
WGWC-16	Fluoride	0.099	J	0.10	U	3
WGWC-17	Fluoride	0.093	J	0.10	U	3
WGWC-23	Fluoride	0.081	J	0.10	U	3
WGWC-25	Fluoride	0.047	J	0.10	U	3

mg/L-milligrams per liter

J-estimated concentration greater than or equal to the MDL and less than the RL

3.9 Field Duplicate

Three field duplicate samples, Dup-1, Dup-2 and Dup-3 were collected with the sample set. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWA-7, WGWC-19 and WGWC-24; respectively, with the following exception.

Fluoride was detected at an estimated concentration greater than the MDL and less than the RL in the field duplicate sample Dup-1 and not detected in the parent sample WGWA-7, resulting in a noncalculable RPD result. Since the difference between the results were less than the RL, no qualifications were applied to the data.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not 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 US EPA method 9315, radium-228 by US EPA 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

4.1.1 Completeness

The radium-226 and radium-228 data reported in this data set are considered usable for supporting 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%.

4.1.2 Analysis Anomaly

The laboratory narrative indicated the method blank in batch 526247 was analyzed on a detector with a failed background check. Since the background check failure was biased high and the radium-228 result was less than the minimum detectable concentration (MDC), no qualifications were applied to the data, based on professional and technical judgment.

The radium-226 and radium-228 concentrations in samples FB-3, WGWC-17, WGWC-15 and WGWC-23 were less than the MDCs. Therefore, based on professional and technical judgment, the combined radium results in these samples were U qualified as not detected at the MDCs.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
FB-3	Combined Radium 226 + 228	0.679	NA	0.679	U	13
WGWC-17	Combined Radium 226 + 228	0.565	NA	0.565	U	13
WGWC-15	Combined Radium 226 + 228	0.678	NA	0.678	U	13
WGWC-23	Combined Radium 226 + 228	0.703	NA	0.703	U	13

pCi/L- picocuries per liter

NA-not applicable

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). Four method blanks were reported for the radium-226 data (batches 525800, 525966, 526227 and 526228). Four method blanks were reported for the radium-228 data (batches 525827, 526057, 526246 and 526247). Radium-226 and radium-228 were not detected in the method blanks above the MDCs, with the following exception.

Radium-228 was detected above the MDC in the method blank in batch 526246 (0.5801 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 concentrations in the associated samples greater than the method blank concentration and less than ten times the method blank concentration were J+ qualified as estimated with high biases. In addition, the combined radium concentrations in the associated samples with a non-detect radium-226 result and a U qualified radium-228 result were U qualified as not detected at the reported concentration. Also, the combined radium concentration with a

radium-228 concentration that was J+ qualified as estimated with a high bias were also J+ qualified as estimated with a high bias.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
Dup-1	Radium-228	0.534	NA	0.534	U	3
Dup-1	Combined Radium 226 + 228	0.747	NA	0.747	U	3
Dup-2	Radium-228	0.641	NA	0.641	J+	3
Dup-2	Combined Radium 226 + 228	0.712	NA	0.712	J+	3
Dup-3	Radium-228	0.834	NA	0.834	J+	3
Dup-3	Combined Radium 226 + 228	1.30	NA	1.30	J+	3
EB-1	Radium-228	0.48	NA	0.48	U	3
EB-1	Combined Radium 226 + 228	0.489	NA	0.489	U	3
FB-1	Combined Radium 226 + 228	0.829	NA	0.829	J+	3
FB-1	Radium-228	0.852	NA	0.852	J+	3
FB-2	Radium-228	0.626	NA	0.626	J+	3
FB-2	Combined Radium 226 + 228	0.688	NA	0.688	J+	3
WGWA-18	Radium-228	0.572	NA	0.572	U	3
WGWA-18	Combined Radium 226 + 228	0.645	NA	0.645	J+	3
WGWA-2	Radium-228	0.609	NA	0.609	J+	3
WGWA-2	Combined Radium 226 + 228	0.632	NA	0.632	J+	3
WGWA-4	Radium-228	1.06	NA	1.06	J+	3
WGWA-4	Combined Radium 226 + 228	1.61	NA	1.61	J+	3
WGWC-11	Combined Radium 226 + 228	0.401	NA	0.401	U	3
WGWC-11	Radium-228	0.409	NA	0.409	U	3
WGWC-13	Radium-228	0.741	NA	0.741	J+	3
WGWC-13	Combined Radium 226 + 228	0.913	NA	0.913	J+	3
WGWC-14A	Radium-228	0.395	NA	0.395	U	3
WGWC-14A	Combined Radium 226 + 228	0.705	NA	0.705	U	3
WGWC-16	Radium-228	0.449	NA	0.449	U	3
WGWC-16	Combined Radium 226 + 228	0.518	NA	0.518	U	3
WGWC-19	Radium-228	0.600	NA	0.60	J+	3

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
WGWC-19	Combined Radium 226 + 228	0.796	NA	0.796	J+	3
WGWC-20	Radium-228	1.12	NA	1.12	J+	3
WGWC-20	Combined Radium 226 + 228	1.60	NA	1.60	J+	3
WGWC-21	Radium-228	0.88	NA	0.88	J+	3
WGWC-21	Combined Radium 226 + 228	1.17	NA	1.17	J+	3
WGWC-22	Radium-228	3.44	NA	3.44	J+	3
WGWC-22	Combined Radium 226 + 228	3.54	NA	3.54	J+	3
WGWC-24	Radium-228	1.07	NA	1.07	J+	3
WGWC-24	Combined Radium 226 + 228	1.63	NA	1.63	J+	3
WGWC-25	Radium-228	0.678	NA	0.678	J+	3
WGWC-25	Combined Radium 226 + 228	1.12	NA	1.12	J+	3
WGWC-8	Radium-228	2.20	NA	2.20	J+	3
WGWC-8	Combined Radium 226 + 228	2.87	NA	2.87	J+	3
WGWC-9	Radium-228	0.606	NA	0.606	J+	3
WGWC-9	Combined Radium 226 + 228	0.681	NA	0.681	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). Two LCSs and two LCS/LCS duplicate (LCSD) pair were reported for radium-226. Two LCSs and two 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 exceptions.

The laboratory noted the LCS recoveries were assessed to regulatory specified acceptance criteria of 75-125% instead of the laboratory statistical limits of 61-138%. Since the samples were not governed by the regulatory limits and based on professional and technical judgment, the sample validation was based on the laboratory statistical limits.

The recovery of radium-228 in the LCS in batch 526057 was high and outside the regulatory specified acceptance criteria. Since the recovery of radium-228 in the LCS in batch 526057 was within the laboratory specified acceptance criteria, 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. The recovery results were within the laboratory specified acceptance criteria.

4.8 Equipment Blank

Three equipment blanks, EB-1, EB-2 and EB-3 were collected with the sample set. Radium-226 and Radium-228 were not detected in the equipment blanks above the MDCs, with the following exceptions.

Radium-228 (0.480 pCi/L) was detected at a concentration greater than the MDC in EB-1. Since the radium-228 concentration in EB-1 was U qualified as not detected at the sample results due to method blank and field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

4.9 Field Blank

Three field blanks, FB-1, FB-2 and FB-3 were collected with the sample set. Radium-226 and Radium-228 were not detected in the field blanks above the MDCs, with the following exceptions.

Radium-228 (0.852 pCi/L) was detected at a concentration greater than the MDC in FB-1. Therefore, the radium-228 and combined radium concentrations in the associated samples greater than the MDCs and less than the field blank concentrations were U qualified as not detected at the reported concentrations and the radium-228 and combined radium concentrations in the associated samples greater than the field blank concentration and less than ten times the method blank concentration were J+ qualified as estimated with high biases.

Radium-228 (0.626 pCi/L) was detected at a concentration greater than the MDC in FB-2. Therefore, the radium-228 and combined radium concentrations in the associated samples greater than the MDCs and less than the field blank concentrations were U qualified as not detected at the reported concentrations and the radium-228 and combined radium concentrations in the associated samples greater than the field blank concentration and less than ten times the method blank concentration were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
EB-1	Radium-228	0.480	NA	0.480	U	3
EB-1	Combined Radium 226 + 228	0.489	NA	0.489	U	3
Dup-1	Radium-228	0.534	NA	0.534	U	3
WGWA-2	Radium-228	0.609	NA	0.609	U	3
WGWA-2	Combined Radium 226 + 228	0.632	NA	0.632	U	3
Dup-1	Combined Radium 226 + 228	0.747	NA	0.747	U	3
WGWA-4	Radium-228	1.06	NA	1.06	J+	3
WGWA-4	Combined Radium 226 + 228	1.61	NA	1.61	J+	3
WGWA-6	Radium-228	6.26	NA	6.26	J+	3
WGWA-18	Combined Radium 226 + 228	0.645	NA	0.645	U	3
WGWA-18	Radium-228	0.572	NA	0.572	U	3
WGWC-11	Combined Radium 226 + 228	0.401	NA	0.401	U	3
WGWC-11	Radium-228	0.409	NA	0.409	U	3
WGWC-13	Combined Radium 226 + 228	0.913	NA	0.913	J+	3
WGWC-13	Radium-228	0.741	NA	0.741	J+	3
WGWC-14A	Combined Radium 226 + 228	0.705	NA	0.705	J+	3
WGWC-14A	Radium-228	0.395	NA	0.395	U	3
WGWC-16	Combined Radium 226 + 228	0.518	NA	0.518	U	3
WGWC-16	Radium-228	0.449	NA	0.449	U	3

pCi/L- picocuries per liter

NA-not applicable

4.10 Field Duplicate

Three field duplicate samples, Dup-1, Dup-2 and Dup-3 were collected with the sample set. Acceptable precision (RER (2σ) < 3) was demonstrated between the field duplicates and the original samples, WGWA-7, WGWC-19 and WGWC-24; respectively.

4.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not 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 C2: Field Sampling Forms

Purge Logs

Low-Flow Test Report:

Test Date / Time: 2/2/2021 10:45:16 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: 120.6 ft Total Depth: 130.59 ft Initial Depth to Water: 25.01 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 125.6 ft Estimated Total Volume Pumped: 13 liter Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 1 in.	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Collected at 1115. 38F 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 %	+/- 5	+/- 300	+/- 10	
2/2/2021 10:45 AM	00:00	5.69 pH	15.40 °C	37.39 µS/cm	1.46 mg/L	8.07 NTU	144.5 mV	25.1 ft	130.00 ml/min
2/2/2021 10:50 AM	05:00	5.38 pH	15.50 °C	37.71 µS/cm	1.47 mg/L	9.00 NTU	142.7 mV	25.1 ft	130.00 ml/min
2/2/2021 10:55 AM	10:00	5.33 pH	15.62 °C	37.43 µS/cm	1.49 mg/L	7.55 NTU	138.5 mV	25.1 ft	130.00 ml/min
2/2/2021 11:00 AM	15:00	5.34 pH	15.83 °C	37.43 µS/cm	1.49 mg/L	5.91 NTU	137.1 mV	25.1 ft	130.00 ml/min
2/2/2021 11:05 AM	20:00	5.34 pH	15.58 °C	37.46 µS/cm	1.50 mg/L	5.13 NTU	136.0 mV	25.1 ft	130.00 ml/min
2/2/2021 11:10 AM	25:00	5.35 pH	15.56 °C	37.50 µS/cm	1.48 mg/L	5.81 NTU	135.3 mV	25.1 ft	130.00 ml/min
2/2/2021 11:15 AM	30:00	5.36 pH	15.59 °C	37.40 µS/cm	1.48 mg/L	4.78 NTU	134.1 mV	25.1 ft	130.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2021 11:50:29 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: 92.7 ft Total Depth: 102.65 ft Initial Depth to Water: 8.24 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 97.5 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.96 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Collected at 1220. 41F 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 %	+/- 5	+/- 300	+/- 10	
2/2/2021 11:50 AM	00:00	6.09 pH	14.81 °C	136.36 µS/cm	0.24 mg/L	7.32 NTU	134.4 mV	8.24 ft	150.00 ml/min
2/2/2021 11:55 AM	05:00	6.08 pH	15.49 °C	124.21 µS/cm	0.12 mg/L	4.06 NTU	130.8 mV	9.20 ft	150.00 ml/min
2/2/2021 12:00 PM	10:00	6.08 pH	15.80 °C	123.83 µS/cm	0.09 mg/L	3.21 NTU	128.7 mV	9.20 ft	150.00 ml/min
2/2/2021 12:05 PM	15:00	6.09 pH	15.98 °C	123.96 µS/cm	0.10 mg/L	1.11 NTU	127.6 mV	9.20 ft	150.00 ml/min
2/2/2021 12:10 PM	20:00	6.09 pH	15.59 °C	126.49 µS/cm	0.12 mg/L	0.96 NTU	127.6 mV	9.20 ft	150.00 ml/min
2/2/2021 12:15 PM	25:00	6.10 pH	15.54 °C	127.13 µS/cm	0.13 mg/L	0.93 NTU	126.9 mV	9.20 ft	150.00 ml/min
2/2/2021 12:20 PM	30:00	6.10 pH	15.94 °C	126.34 µS/cm	0.15 mg/L	0.88 NTU	124.4 mV	9.20 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2021 11:10:57 AM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

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: 2.95 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 10.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1145 on 2-2-21. Dup-1 here.

Weather Conditions:

Sunny, 30s.

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	
2/2/2021 11:10 AM	00:00	6.93 pH	16.33 °C	31.20 µS/cm	5.76 mg/L	2.00 NTU	120.1 mV	2.95 ft	300.00 ml/min
2/2/2021 11:15 AM	05:00	6.24 pH	16.38 °C	31.34 µS/cm	5.73 mg/L	2.10 NTU	115.8 mV	2.95 ft	300.00 ml/min
2/2/2021 11:18 AM	07:09	6.08 pH	16.29 °C	31.65 µS/cm	5.74 mg/L	2.10 NTU	131.7 mV	2.95 ft	300.00 ml/min
2/2/2021 11:18 AM	07:52	5.98 pH	16.31 °C	31.39 µS/cm	5.72 mg/L	2.10 NTU	134.9 mV	3.00 ft	300.00 ml/min
2/2/2021 11:23 AM	12:52	5.87 pH	16.33 °C	31.32 µS/cm	5.76 mg/L	0.70 NTU	118.1 mV	3.00 ft	300.00 ml/min
2/2/2021 11:28 AM	17:52	5.75 pH	16.38 °C	31.42 µS/cm	5.69 mg/L	0.50 NTU	119.0 mV	3.00 ft	300.00 ml/min
2/2/2021 11:33 AM	22:52	5.78 pH	16.24 °C	31.12 µS/cm	5.69 mg/L	0.60 NTU	118.2 mV	3.00 ft	300.00 ml/min
2/2/2021 11:38 AM	27:52	5.86 pH	16.33 °C	31.14 µS/cm	5.68 mg/L	0.30 NTU	116.2 mV	3.00 ft	300.00 ml/min
2/2/2021 11:43 AM	32:52	5.78 pH	16.37 °C	30.94 µS/cm	5.65 mg/L	0.40 NTU	118.0 mV	3.00 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2021 12:18:33 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

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: 5.03 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 68.9 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1250 on 2-2-21.

Weather Conditions:

Sunny, 40s.

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	
2/2/2021 12:18 PM	00:00	6.68 pH	22.04 °C	100.84 µS/cm	4.23 mg/L	5.00 NTU	65.2 mV	5.03 ft	150.00 ml/min
2/2/2021 12:20 PM	01:56	6.63 pH	17.82 °C	113.71 µS/cm	1.48 mg/L	5.00 NTU	38.7 mV	5.03 ft	150.00 ml/min
2/2/2021 12:25 PM	06:56	6.58 pH	16.38 °C	124.48 µS/cm	0.24 mg/L	1.00 NTU	43.1 mV	5.30 ft	150.00 ml/min
2/2/2021 12:30 PM	11:56	6.62 pH	16.10 °C	125.97 µS/cm	0.13 mg/L	1.20 NTU	39.9 mV	5.30 ft	150.00 ml/min
2/2/2021 12:35 PM	16:56	6.61 pH	15.82 °C	125.38 µS/cm	0.08 mg/L	1.10 NTU	38.6 mV	5.30 ft	150.00 ml/min
2/2/2021 12:40 PM	21:56	6.60 pH	15.48 °C	125.46 µS/cm	0.08 mg/L	0.85 NTU	37.3 mV	5.30 ft	150.00 ml/min
2/2/2021 12:45 PM	26:56	6.61 pH	15.50 °C	124.84 µS/cm	0.08 mg/L	0.80 NTU	34.0 mV	5.30 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/3/2021 11:05:07 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: WGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 13.6 ft Total Depth: 23.60 ft Initial Depth to Water: 14.97 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 18.6 ft Estimated Total Volume Pumped: 28 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 7 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Collected at 1325. 47F clear. Purge start time: 10:10 Total Purge Time: 195 min.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
2/3/2021 11:05 AM	00:00	6.56 pH	14.23 °C	34.89 µS/cm	2.99 mg/L	33.00 NTU	47.9 mV	15.50 ft	100.00 ml/min
2/3/2021 11:10 AM	05:00	5.96 pH	14.57 °C	32.19 µS/cm	3.16 mg/L	31.00 NTU	61.6 mV	15.60 ft	100.00 ml/min
2/3/2021 11:15 AM	10:00	5.70 pH	14.69 °C	30.60 µS/cm	3.24 mg/L	26.90 NTU	73.9 mV	15.60 ft	100.00 ml/min
2/3/2021 11:20 AM	15:00	5.57 pH	14.63 °C	28.57 µS/cm	3.47 mg/L	24.60 NTU	84.0 mV	15.70 ft	100.00 ml/min
2/3/2021 11:25 AM	20:00	5.49 pH	14.68 °C	27.25 µS/cm	3.60 mg/L	21.90 NTU	93.6 mV	15.70 ft	100.00 ml/min
2/3/2021 11:30 AM	25:00	5.46 pH	14.47 °C	26.60 µS/cm	3.62 mg/L	23.60 NTU	101.3 mV	15.70 ft	100.00 ml/min
2/3/2021 11:35 AM	30:00	5.44 pH	14.72 °C	26.61 µS/cm	3.82 mg/L	23.50 NTU	107.2 mV	15.70 ft	100.00 ml/min
2/3/2021 11:40 AM	35:00	5.45 pH	14.27 °C	27.61 µS/cm	3.74 mg/L	22.70 NTU	111.6 mV	15.70 ft	100.00 ml/min
2/3/2021 11:45 AM	40:00	5.41 pH	15.53 °C	28.23 µS/cm	3.73 mg/L	22.10 NTU	116.0 mV	15.70 ft	100.00 ml/min
2/3/2021 11:50 AM	45:00	5.39 pH	16.14 °C	26.34 µS/cm	3.92 mg/L	21.90 NTU	120.0 mV	15.70 ft	100.00 ml/min
2/3/2021 11:55 AM	50:00	5.37 pH	16.03 °C	26.32 µS/cm	4.04 mg/L	21.30 NTU	124.7 mV	15.70 ft	100.00 ml/min
2/3/2021 12:00 PM	55:00	5.37 pH	16.43 °C	26.46 µS/cm	4.13 mg/L	20.40 NTU	128.8 mV	15.70 ft	100.00 ml/min
2/3/2021 12:05 PM	01:00:00	5.35 pH	15.98 °C	25.57 µS/cm	4.23 mg/L	19.80 NTU	132.7 mV	15.70 ft	100.00 ml/min
2/3/2021 12:10 PM	01:05:00	5.34 pH	16.16 °C	25.98 µS/cm	4.27 mg/L	19.20 NTU	135.4 mV	15.70 ft	100.00 ml/min
2/3/2021 12:15 PM	01:10:00	5.35 pH	16.47 °C	25.82 µS/cm	4.26 mg/L	18.60 NTU	137.7 mV	15.70 ft	100.00 ml/min

2/3/2021 12:20 PM	01:15:00	5.35 pH	16.34 °C	25.40 µS/cm	4.42 mg/L	18.60 NTU	140.1 mV	15.70 ft	100.00 ml/min
2/3/2021 12:25 PM	01:20:00	5.32 pH	16.07 °C	25.16 µS/cm	4.58 mg/L	18.60 NTU	143.1 mV	15.70 ft	100.00 ml/min
2/3/2021 12:30 PM	01:25:00	5.32 pH	15.89 °C	25.18 µS/cm	4.62 mg/L	17.40 NTU	144.4 mV	15.70 ft	100.00 ml/min
2/3/2021 12:35 PM	01:30:00	5.32 pH	15.71 °C	24.83 µS/cm	4.63 mg/L	17.30 NTU	146.5 mV	15.70 ft	100.00 ml/min
2/3/2021 12:40 PM	01:35:00	5.32 pH	15.62 °C	25.78 µS/cm	4.72 mg/L	17.00 NTU	147.2 mV	15.70 ft	100.00 ml/min
2/3/2021 12:45 PM	01:40:00	5.32 pH	15.89 °C	25.65 µS/cm	4.77 mg/L	16.90 NTU	148.3 mV	15.70 ft	100.00 ml/min
2/3/2021 12:50 PM	01:45:00	5.32 pH	15.97 °C	25.25 µS/cm	4.73 mg/L	16.00 NTU	149.5 mV	15.70 ft	100.00 ml/min
2/3/2021 12:55 PM	01:50:00	5.32 pH	16.29 °C	25.35 µS/cm	4.76 mg/L	15.60 NTU	150.1 mV	15.70 ft	100.00 ml/min
2/3/2021 1:00 PM	01:55:00	5.33 pH	16.41 °C	25.22 µS/cm	4.73 mg/L	14.70 NTU	150.4 mV	15.70 ft	100.00 ml/min
2/3/2021 1:05 PM	02:00:00	5.33 pH	16.07 °C	24.78 µS/cm	4.78 mg/L	13.30 NTU	151.0 mV	15.70 ft	100.00 ml/min
2/3/2021 1:10 PM	02:05:00	5.32 pH	16.29 °C	25.54 µS/cm	4.79 mg/L	12.80 NTU	151.6 mV	15.70 ft	100.00 ml/min
2/3/2021 1:15 PM	02:10:00	5.32 pH	16.30 °C	25.18 µS/cm	4.82 mg/L	11.60 NTU	151.7 mV	15.70 ft	100.00 ml/min
2/3/2021 1:20 PM	02:15:00	5.32 pH	15.68 °C	25.26 µS/cm	4.90 mg/L	10.20 NTU	152.4 mV	15.70 ft	100.00 ml/min
2/3/2021 1:25 PM	02:20:00	5.31 pH	15.28 °C	25.45 µS/cm	4.94 mg/L	9.92 NTU	160.3 mV	15.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/3/2021 10:00:11 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

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: 16.18 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 11 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 14 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Collected at 1030. 36 F 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 %	+/- 5	+/- 300	+/- 10	
2/3/2021 10:00 AM	00:00	7.64 pH	15.23 °C	0.31 µS/cm	7.12 mg/L	2.98 NTU	95.8 mV	17.00 ft	100.00 ml/min
2/3/2021 10:05 AM	05:00	7.83 pH	15.26 °C	170.29 µS/cm	0.48 mg/L	2.87 NTU	88.1 mV	17.30 ft	100.00 ml/min
2/3/2021 10:10 AM	10:00	7.80 pH	15.13 °C	171.68 µS/cm	0.21 mg/L	2.32 NTU	79.9 mV	17.60 ft	100.00 ml/min
2/3/2021 10:15 AM	15:00	7.79 pH	15.04 °C	169.45 µS/cm	0.20 mg/L	1.12 NTU	71.1 mV	17.70 ft	100.00 ml/min
2/3/2021 10:20 AM	20:00	7.78 pH	14.76 °C	171.69 µS/cm	0.22 mg/L	1.17 NTU	63.0 mV	17.80 ft	100.00 ml/min
2/3/2021 10:25 AM	25:00	7.77 pH	15.59 °C	170.65 µS/cm	0.23 mg/L	1.17 NTU	55.9 mV	17.80 ft	100.00 ml/min
2/3/2021 10:30 AM	30:00	7.77 pH	15.26 °C	169.90 µS/cm	0.23 mg/L	1.19 NTU	49.5 mV	17.80 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2021 1:38:44 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

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: 27.23 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 34.6 ft Estimated Total Volume Pumped: 5.3 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1410 on 2-2-21.

Weather Conditions:

Sunny, 40s.

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	
2/2/2021 1:38 PM	00:00	7.56 pH	17.89 °C	10.96 µS/cm	9.03 mg/L	5.00 NTU	34.7 mV	27.23 ft	150.00 ml/min
2/2/2021 1:43 PM	05:00	6.50 pH	15.18 °C	23.55 µS/cm	8.97 mg/L	0.30 NTU	60.3 mV	27.30 ft	150.00 ml/min
2/2/2021 1:48 PM	10:00	6.13 pH	15.34 °C	23.03 µS/cm	9.35 mg/L	0.40 NTU	70.3 mV	27.30 ft	150.00 ml/min
2/2/2021 1:53 PM	15:00	5.97 pH	15.30 °C	23.26 µS/cm	9.17 mg/L	0.40 NTU	73.9 mV	27.30 ft	150.00 ml/min
2/2/2021 1:58 PM	20:00	5.90 pH	15.21 °C	23.59 µS/cm	8.93 mg/L	0.35 NTU	75.8 mV	27.40 ft	150.00 ml/min
2/2/2021 2:03 PM	25:00	5.86 pH	15.21 °C	24.23 µS/cm	9.11 mg/L	0.40 NTU	76.7 mV	27.40 ft	150.00 ml/min
2/2/2021 2:08 PM	30:00	5.84 pH	15.07 °C	24.30 µS/cm	9.16 mg/L	0.40 NTU	79.0 mV	27.40 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/2/2021 1:10:47 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: 26.9 ft Total Depth: 36.9 ft Initial Depth to Water: 22.18 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 31.9 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 16 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Collected at 1450. 46F 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 %	+/- 5	+/- 300	+/- 10	
2/2/2021 1:10 PM	00:00	6.65 pH	14.68 °C	120.60 µS/cm	4.40 mg/L	1.32 NTU	117.1 mV	22.18 ft	100.00 ml/min
2/2/2021 1:15 PM	05:00	7.02 pH	15.76 °C	130.16 µS/cm	1.28 mg/L	1.82 NTU	96.0 mV	23.60 ft	100.00 ml/min
2/2/2021 1:20 PM	10:00	7.24 pH	15.94 °C	132.61 µS/cm	0.98 mg/L	1.65 NTU	85.4 mV	23.00 ft	100.00 ml/min
2/2/2021 1:25 PM	15:00	7.41 pH	15.94 °C	133.39 µS/cm	0.78 mg/L	1.54 NTU	78.3 mV	23.20 ft	100.00 ml/min
2/2/2021 1:30 PM	20:00	7.49 pH	15.89 °C	135.33 µS/cm	0.67 mg/L	1.44 NTU	73.2 mV	23.40 ft	100.00 ml/min
2/2/2021 1:35 PM	25:00	7.44 pH	15.85 °C	137.56 µS/cm	0.50 mg/L	1.42 NTU	68.1 mV	23.60 ft	100.00 ml/min
2/2/2021 1:40 PM	30:00	7.31 pH	16.02 °C	137.59 µS/cm	0.38 mg/L	1.19 NTU	62.7 mV	23.60 ft	100.00 ml/min
2/2/2021 1:45 PM	35:00	7.18 pH	15.71 °C	138.35 µS/cm	0.34 mg/L	1.31 NTU	58.0 mV	23.60 ft	100.00 ml/min
2/2/2021 1:50 PM	40:00	7.07 pH	15.51 °C	137.34 µS/cm	0.33 mg/L	1.19 NTU	54.8 mV	23.60 ft	100.00 ml/min
2/2/2021 1:55 PM	45:00	6.98 pH	15.39 °C	137.14 µS/cm	0.32 mg/L	0.99 NTU	51.9 mV	23.60 ft	100.00 ml/min
2/2/2021 2:00 PM	50:00	6.90 pH	15.31 °C	136.44 µS/cm	0.30 mg/L	1.04 NTU	49.8 mV	23.60 ft	100.00 ml/min
2/2/2021 2:05 PM	55:00	6.84 pH	15.26 °C	134.80 µS/cm	0.30 mg/L	0.82 NTU	48.5 mV	23.60 ft	100.00 ml/min
2/2/2021 2:10 PM	01:00:00	6.77 pH	15.18 °C	132.18 µS/cm	0.34 mg/L	0.81 NTU	47.0 mV	23.60 ft	100.00 ml/min
2/2/2021 2:15 PM	01:05:00	6.72 pH	15.15 °C	127.52 µS/cm	0.46 mg/L	0.80 NTU	46.4 mV	23.60 ft	100.00 ml/min
2/2/2021 2:20 PM	01:10:00	6.66 pH	15.16 °C	121.66 µS/cm	0.69 mg/L	1.11 NTU	46.2 mV	23.60 ft	100.00 ml/min

2/2/2021 2:25 PM	01:15:00	6.63 pH	15.08 °C	116.36 µS/cm	0.94 mg/L	1.02 NTU	46.0 mV	23.60 ft	100.00 ml/min
2/2/2021 2:30 PM	01:20:00	6.61 pH	15.08 °C	114.38 µS/cm	1.15 mg/L	1.01 NTU	46.5 mV	23.60 ft	100.00 ml/min
2/2/2021 2:35 PM	01:25:00	6.58 pH	15.17 °C	111.03 µS/cm	1.32 mg/L	0.91 NTU	46.5 mV	23.60 ft	100.00 ml/min
2/2/2021 2:40 PM	01:30:00	6.55 pH	15.20 °C	107.32 µS/cm	1.44 mg/L	0.94 NTU	46.6 mV	23.60 ft	100.00 ml/min
2/2/2021 2:45 PM	01:35:00	6.50 pH	15.16 °C	105.45 µS/cm	1.52 mg/L	0.89 NTU	47.1 mV	23.60 ft	100.00 ml/min
2/2/2021 2:50 PM	01:40:00	6.47 pH	15.04 °C	103.25 µS/cm	1.63 mg/L	0.88 NTU	47.6 mV	23.60 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/3/2021 3:17:33 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. 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: 3.3 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 54.4 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 13.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1545 on 2-3-21.

Weather Conditions:

Sunny, 40s.

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	
2/3/2021 3:17 PM	00:00	5.66 pH	15.12 °C	726.50 µS/cm	2.78 mg/L	5.00 NTU	102.5 mV	3.30 ft	100.00 ml/min
2/3/2021 3:22 PM	05:00	5.28 pH	14.39 °C	739.58 µS/cm	1.42 mg/L	1.70 NTU	119.6 mV	4.00 ft	100.00 ml/min
2/3/2021 3:27 PM	10:00	5.13 pH	14.17 °C	743.15 µS/cm	1.21 mg/L	1.90 NTU	128.0 mV	4.10 ft	100.00 ml/min
2/3/2021 3:32 PM	15:00	5.08 pH	14.12 °C	743.82 µS/cm	1.18 mg/L	1.50 NTU	131.1 mV	4.20 ft	100.00 ml/min
2/3/2021 3:37 PM	20:00	5.08 pH	14.08 °C	744.96 µS/cm	1.18 mg/L	1.10 NTU	132.0 mV	4.30 ft	100.00 ml/min
2/3/2021 3:42 PM	25:00	5.08 pH	14.04 °C	747.29 µS/cm	1.20 mg/L	1.20 NTU	132.2 mV	4.40 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/4/2021 1:44:27 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

Location Name: WGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.4 ft Total Depth: 61.42 ft Initial Depth to Water: 19.76 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 56.4 ft Estimated Total Volume Pumped: 3.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 13.7 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1412 on 2-4-21.

Weather Conditions:

Cloudy, 40s.

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	
2/4/2021 1:44 PM	00:00	5.77 pH	14.66 °C	163.19 µS/cm	6.63 mg/L	5.00 NTU	141.1 mV	19.76 ft	100.00 ml/min
2/4/2021 1:49 PM	05:00	6.14 pH	15.78 °C	168.16 µS/cm	5.04 mg/L	2.30 NTU	131.0 mV	20.60 ft	100.00 ml/min
2/4/2021 1:54 PM	10:00	6.21 pH	16.31 °C	169.67 µS/cm	4.91 mg/L	2.60 NTU	148.3 mV	20.70 ft	100.00 ml/min
2/4/2021 1:59 PM	15:00	6.25 pH	16.66 °C	167.07 µS/cm	4.78 mg/L	1.90 NTU	127.2 mV	20.80 ft	100.00 ml/min
2/4/2021 2:04 PM	20:00	6.27 pH	16.55 °C	166.27 µS/cm	4.76 mg/L	1.60 NTU	125.8 mV	20.80 ft	100.00 ml/min
2/4/2021 2:09 PM	25:00	6.22 pH	16.33 °C	168.30 µS/cm	4.77 mg/L	1.60 NTU	126.2 mV	20.90 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/4/2021 3:08:01 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

Location Name: WGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 138.9 ft Total Depth: 148.95 ft Initial Depth to Water: 15.52 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 143.9 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 11.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1550 on 2-4-21.

Weather Conditions:

Cloudy, 40s.

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	
2/4/2021 3:08 PM	00:00	6.53 pH	13.03 °C	59.01 µS/cm	9.50 mg/L	5.00 NTU	129.9 mV	15.52 ft	100.00 ml/min
2/4/2021 3:13 PM	05:00	6.28 pH	14.31 °C	62.99 µS/cm	2.01 mg/L	1.80 NTU	126.5 mV	16.10 ft	100.00 ml/min
2/4/2021 3:18 PM	10:00	6.21 pH	14.89 °C	61.75 µS/cm	1.20 mg/L	2.30 NTU	143.3 mV	16.20 ft	100.00 ml/min
2/4/2021 3:23 PM	15:00	6.22 pH	14.98 °C	60.88 µS/cm	2.61 mg/L	2.20 NTU	124.2 mV	16.30 ft	100.00 ml/min
2/4/2021 3:28 PM	20:00	6.26 pH	14.96 °C	62.49 µS/cm	3.49 mg/L	1.90 NTU	122.4 mV	16.30 ft	100.00 ml/min
2/4/2021 3:33 PM	25:00	6.27 pH	14.48 °C	63.91 µS/cm	3.99 mg/L	2.30 NTU	121.8 mV	16.40 ft	100.00 ml/min
2/4/2021 3:38 PM	30:00	6.27 pH	14.24 °C	64.68 µS/cm	4.42 mg/L	2.00 NTU	121.2 mV	16.50 ft	100.00 ml/min
2/4/2021 3:43 PM	35:00	6.24 pH	14.03 °C	65.16 µS/cm	4.62 mg/L	1.90 NTU	121.9 mV	16.50 ft	100.00 ml/min
2/4/2021 3:48 PM	40:00	6.21 pH	13.97 °C	65.20 µS/cm	4.69 mg/L	2.00 NTU	122.2 mV	16.50 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/3/2021 1:56:37 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

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: 21.91 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 44.5 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 10.7 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1435 on 2-3-21.

Weather Conditions:

Sunny, 40s.

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	
2/3/2021 1:56 PM	00:00	6.87 pH	19.35 °C	31.02 µS/cm	7.38 mg/L	5.00 NTU	62.7 mV	21.91 ft	150.00 ml/min
2/3/2021 2:01 PM	05:00	6.11 pH	17.58 °C	31.31 µS/cm	7.81 mg/L	3.20 NTU	85.0 mV	22.50 ft	150.00 ml/min
2/3/2021 2:06 PM	10:00	5.77 pH	17.27 °C	31.28 µS/cm	8.23 mg/L	3.10 NTU	100.6 mV	22.60 ft	150.00 ml/min
2/3/2021 2:11 PM	15:00	5.52 pH	17.21 °C	31.19 µS/cm	8.16 mg/L	2.90 NTU	111.5 mV	22.70 ft	150.00 ml/min
2/3/2021 2:16 PM	20:00	5.40 pH	16.67 °C	31.02 µS/cm	8.06 mg/L	2.90 NTU	119.4 mV	22.80 ft	150.00 ml/min
2/3/2021 2:21 PM	25:00	5.31 pH	16.15 °C	30.97 µS/cm	8.15 mg/L	2.80 NTU	124.9 mV	22.80 ft	150.00 ml/min
2/3/2021 2:26 PM	30:00	5.24 pH	15.80 °C	30.97 µS/cm	8.17 mg/L	2.50 NTU	129.7 mV	22.80 ft	150.00 ml/min
2/3/2021 2:31 PM	35:00	5.21 pH	15.79 °C	31.08 µS/cm	8.18 mg/L	2.60 NTU	132.4 mV	22.80 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/3/2021 12:32:54 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

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: 21.5 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 71.5 ft Estimated Total Volume Pumped: 27.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 1.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1325 on 2-3-21. Purge start time: 10:20 Total purge time: 185 min.

Weather Conditions:

Sunny, 40s.

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	
2/3/2021 12:32 PM	00:00	6.89 pH	16.00 °C	107.32 µS/cm	1.27 mg/L	5.00 NTU	67.1 mV	21.50 ft	150.00 ml/min
2/3/2021 12:37 PM	05:00	6.63 pH	16.62 °C	105.72 µS/cm	0.46 mg/L	6.30 NTU	64.0 mV	21.60 ft	150.00 ml/min
2/3/2021 12:42 PM	10:00	6.47 pH	16.64 °C	106.18 µS/cm	0.53 mg/L	10.4 NTU	62.8 mV	21.60 ft	150.00 ml/min
2/3/2021 12:47 PM	15:00	6.34 pH	16.51 °C	107.71 µS/cm	0.35 mg/L	10.2 NTU	63.9 mV	21.60 ft	150.00 ml/min
2/3/2021 12:52 PM	20:00	6.21 pH	16.64 °C	108.76 µS/cm	0.26 mg/L	10.1 NTU	65.2 mV	21.60 ft	150.00 ml/min
2/3/2021 12:57 PM	25:00	6.17 pH	16.72 °C	109.48 µS/cm	0.27 mg/L	9.50 NTU	64.3 mV	21.60 ft	150.00 ml/min
2/3/2021 1:02 PM	30:00	6.16 pH	16.69 °C	109.73 µS/cm	0.26 mg/L	9.10 NTU	63.0 mV	21.60 ft	150.00 ml/min
2/3/2021 1:07 PM	35:00	6.16 pH	16.82 °C	109.99 µS/cm	0.24 mg/L	9.10 NTU	61.3 mV	21.60 ft	150.00 ml/min
2/3/2021 1:12 PM	40:00	6.14 pH	16.81 °C	111.48 µS/cm	0.23 mg/L	8.30 NTU	59.7 mV	21.60 ft	150.00 ml/min
2/3/2021 1:17 PM	45:00	6.15 pH	16.85 °C	111.92 µS/cm	0.26 mg/L	8.10 NTU	57.4 mV	21.60 ft	150.00 ml/min
2/3/2021 1:22 PM	50:00	6.15 pH	16.89 °C	111.83 µS/cm	0.30 mg/L	9.00 NTU	56.2 mV	21.60 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/4/2021 10:40:09 AM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

Location Name: WGWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.5 ft Total Depth: 95.55 ft Initial Depth to Water: 19.81 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90.5 ft Estimated Total Volume Pumped: 6.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 22.7 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1115 on 2-4-21.

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	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
2/4/2021 10:40 AM	00:00	8.44 pH	11.75 °C	104.48 µS/cm	5.68 mg/L	5.00 NTU	163.8 mV	19.81 ft	100.00 ml/min
2/4/2021 10:45 AM	05:00	7.12 pH	13.04 °C	68.69 µS/cm	1.91 mg/L	3.20 NTU	143.3 mV	21.40 ft	100.00 ml/min
2/4/2021 10:50 AM	10:00	6.55 pH	13.78 °C	63.70 µS/cm	1.75 mg/L	2.80 NTU	133.4 mV	21.50 ft	100.00 ml/min
2/4/2021 10:55 AM	15:00	6.38 pH	13.94 °C	62.66 µS/cm	1.70 mg/L	3.20 NTU	130.3 mV	21.50 ft	100.00 ml/min
2/4/2021 11:00 AM	20:00	6.31 pH	13.94 °C	62.38 µS/cm	1.77 mg/L	3.15 NTU	128.5 mV	21.50 ft	100.00 ml/min
2/4/2021 11:05 AM	25:00	6.28 pH	13.99 °C	61.93 µS/cm	1.74 mg/L	2.70 NTU	126.6 mV	21.60 ft	100.00 ml/min
2/4/2021 11:10 AM	30:00	6.34 pH	13.93 °C	61.98 µS/cm	1.80 mg/L	2.80 NTU	122.6 mV	21.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/4/2021 11:34:33 AM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

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: 19.64 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 8.1 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 10.3 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1240 on 2-4-21. Extra rad.

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	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
2/4/2021 11:34 AM	00:00	6.72 pH	13.20 °C	0.57 µS/cm	10.03 mg/L	5.00 NTU	112.9 mV	19.64 ft	125.00 ml/min
2/4/2021 11:39 AM	05:00	5.85 pH	13.35 °C	28.11 µS/cm	3.67 mg/L	6.40 NTU	140.5 mV	20.10 ft	125.00 ml/min
2/4/2021 11:44 AM	10:00	5.64 pH	14.69 °C	26.75 µS/cm	3.12 mg/L	6.10 NTU	165.2 mV	20.20 ft	125.00 ml/min
2/4/2021 11:49 AM	15:00	5.56 pH	14.84 °C	26.28 µS/cm	2.34 mg/L	5.00 NTU	142.8 mV	20.20 ft	125.00 ml/min
2/4/2021 11:54 AM	20:00	5.51 pH	14.96 °C	25.78 µS/cm	1.83 mg/L	2.40 NTU	143.9 mV	20.30 ft	125.00 ml/min
2/4/2021 11:59 AM	25:00	5.51 pH	15.25 °C	25.50 µS/cm	1.50 mg/L	3.70 NTU	145.9 mV	20.30 ft	125.00 ml/min
2/4/2021 12:04 PM	30:00	5.51 pH	15.31 °C	25.37 µS/cm	1.37 mg/L	3.10 NTU	145.5 mV	20.30 ft	125.00 ml/min
2/4/2021 12:09 PM	35:00	5.49 pH	15.34 °C	25.15 µS/cm	1.19 mg/L	1.00 NTU	146.5 mV	20.30 ft	125.00 ml/min
2/4/2021 12:14 PM	40:00	5.49 pH	15.48 °C	25.68 µS/cm	1.16 mg/L	1.10 NTU	147.5 mV	20.30 ft	125.00 ml/min
2/4/2021 12:19 PM	45:00	5.65 pH	15.61 °C	29.78 µS/cm	0.95 mg/L	1.20 NTU	145.3 mV	20.40 ft	125.00 ml/min
2/4/2021 12:24 PM	50:00	5.70 pH	15.50 °C	32.04 µS/cm	0.80 mg/L	1.10 NTU	144.1 mV	20.40 ft	125.00 ml/min
2/4/2021 12:29 PM	55:00	5.72 pH	15.57 °C	33.50 µS/cm	0.73 mg/L	0.50 NTU	143.6 mV	20.40 ft	125.00 ml/min
2/4/2021 12:34 PM	1:00:00	5.74 pH	15.70 °C	34.33 µS/cm	0.66 mg/L	0.60 NTU	143.2 mV	20.40 ft	125.00 ml/min
2/4/2021 12:39 PM	1:05:00	5.76 pH	15.70 °C	34.47 µS/cm	0.64 mg/L	0.60 NTU	143.1 mV	20.40 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/4/2021 10:05:17 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: WGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.4 ft Total Depth: 53.36 ft Initial Depth to Water: 20.09 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48.6 ft Estimated Total Volume Pumped: 12 liter Flow Cell Volume: 90 ml Final Flow Rate: 60 ml/min Final Draw Down: 144 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Collected at 1105. 41F overcast. DUP-2 collected. Purge start time: 0940 Total purge time: 85 min.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
2/4/2021 10:05 AM	00:00	8.08 pH	10.97 °C	265.17 µS/cm	3.39 mg/L	9.54 NTU	164.1 mV	28.60 ft	100.00 ml/min
2/4/2021 10:10 AM	05:00	7.91 pH	13.36 °C	235.46 µS/cm	2.50 mg/L	5.78 NTU	149.0 mV	27.20 ft	100.00 ml/min
2/4/2021 10:15 AM	10:00	7.82 pH	13.38 °C	233.17 µS/cm	2.44 mg/L	5.43 NTU	141.5 mV	27.80 ft	100.00 ml/min
2/4/2021 10:20 AM	15:00	7.78 pH	13.55 °C	232.74 µS/cm	2.37 mg/L	5.11 NTU	122.8 mV	28.40 ft	100.00 ml/min
2/4/2021 10:25 AM	20:00	7.75 pH	13.51 °C	231.49 µS/cm	2.30 mg/L	4.58 NTU	133.0 mV	28.90 ft	100.00 ml/min
2/4/2021 10:30 AM	25:00	7.77 pH	11.88 °C	224.65 µS/cm	2.23 mg/L	4.56 NTU	120.2 mV	29.50 ft	100.00 ml/min
2/4/2021 10:35 AM	30:00	7.73 pH	14.18 °C	233.50 µS/cm	2.27 mg/L	4.23 NTU	126.3 mV	30.10 ft	100.00 ml/min
2/4/2021 10:40 AM	35:00	7.73 pH	14.51 °C	231.28 µS/cm	2.15 mg/L	3.97 NTU	123.8 mV	30.80 ft	100.00 ml/min
2/4/2021 10:45 AM	40:00	7.74 pH	14.56 °C	229.87 µS/cm	2.06 mg/L	3.69 NTU	121.4 mV	31.30 ft	60.00 ml/min
2/4/2021 10:50 AM	45:00	7.77 pH	13.75 °C	223.89 µS/cm	2.04 mg/L	3.98 NTU	112.6 mV	21.70 ft	60.00 ml/min
2/4/2021 10:55 AM	50:00	7.77 pH	12.62 °C	226.26 µS/cm	2.09 mg/L	3.68 NTU	111.8 mV	31.90 ft	60.00 ml/min
2/4/2021 11:00 AM	55:00	7.77 pH	12.33 °C	228.32 µS/cm	2.10 mg/L	4.57 NTU	117.2 mV	32.00 ft	60.00 ml/min
2/4/2021 11:05 AM	01:00:00	7.77 pH	12.45 °C	228.14 µS/cm	2.14 mg/L	4.59 NTU	109.5 mV	32.00 ft	60.00 ml/min

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/4/2021 11:40:28 AM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: WGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.8 ft Total Depth: 34.78 ft Initial Depth to Water: 19.25 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 30 ft Estimated Total Volume Pumped: 6.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 108 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Collected at 1230. 49F overcast.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
2/4/2021 11:40 AM	00:00	7.28 pH	13.54 °C	391.57 µS/cm	7.96 mg/L	28.40 NTU	138.6 mV	19.40 ft	125.00 ml/min
2/4/2021 11:45 AM	05:00	5.71 pH	15.70 °C	350.84 µS/cm	3.99 mg/L	25.30 NTU	145.3 mV	19.40 ft	125.00 ml/min
2/4/2021 11:50 AM	10:00	5.47 pH	15.87 °C	350.20 µS/cm	3.78 mg/L	25.90 NTU	157.2 mV	19.40 ft	125.00 ml/min
2/4/2021 11:55 AM	15:00	5.44 pH	15.86 °C	349.62 µS/cm	3.73 mg/L	24.50 NTU	160.0 mV	19.50 ft	125.00 ml/min
2/4/2021 12:00 PM	20:00	5.44 pH	15.71 °C	350.64 µS/cm	3.71 mg/L	14.90 NTU	151.1 mV	19.50 ft	125.00 ml/min
2/4/2021 12:05 PM	25:00	5.42 pH	16.05 °C	350.93 µS/cm	3.74 mg/L	11.80 NTU	160.8 mV	19.60 ft	125.00 ml/min
2/4/2021 12:10 PM	30:00	5.43 pH	16.03 °C	348.58 µS/cm	3.72 mg/L	8.23 NTU	151.4 mV	19.70 ft	125.00 ml/min
2/4/2021 12:15 PM	35:00	5.43 pH	16.02 °C	349.36 µS/cm	3.74 mg/L	6.87 NTU	150.6 mV	19.70 ft	125.00 ml/min
2/4/2021 12:20 PM	40:00	5.42 pH	16.00 °C	348.54 µS/cm	3.78 mg/L	5.23 NTU	149.9 mV	19.80 ft	125.00 ml/min
2/4/2021 12:25 PM	45:00	5.43 pH	16.03 °C	346.88 µS/cm	3.80 mg/L	5.05 NTU	149.0 mV	19.80 ft	125.00 ml/min
2/4/2021 12:30 PM	50:00	5.42 pH	16.09 °C	343.86 µS/cm	3.79 mg/L	4.18 NTU	157.1 mV	19.80 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/4/2021 1:15:09 PM

Project: Plant Wansley - Ash Pond

Operator Name: O. Fuquea

Location Name: WGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 in Top of Screen: 85.9 ft Total Depth: 95.94 ft Initial Depth to Water: 30.04 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 19 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Collected at 1345. 52F light rain. FB-2 collected at 1320.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
2/4/2021 1:15 PM	00:00	6.34 pH	14.72 °C	93.48 µS/cm	2.03 mg/L	4.54 NTU	77.3 mV	30.50 ft	150.00 ml/min
2/4/2021 1:20 PM	05:00	6.29 pH	15.71 °C	96.29 µS/cm	0.18 mg/L	3.99 NTU	67.4 mV	31.00 ft	150.00 ml/min
2/4/2021 1:25 PM	10:00	6.31 pH	15.71 °C	96.25 µS/cm	0.14 mg/L	3.71 NTU	62.5 mV	31.50 ft	150.00 ml/min
2/4/2021 1:30 PM	15:00	6.32 pH	15.57 °C	96.96 µS/cm	0.13 mg/L	3.87 NTU	58.7 mV	31.50 ft	150.00 ml/min
2/4/2021 1:35 PM	20:00	6.31 pH	15.56 °C	97.21 µS/cm	0.14 mg/L	3.76 NTU	55.6 mV	31.60 ft	150.00 ml/min
2/4/2021 1:40 PM	25:00	6.31 pH	15.53 °C	96.97 µS/cm	0.15 mg/L	2.88 NTU	52.8 mV	31.60 ft	150.00 ml/min
2/4/2021 1:45 PM	30:00	6.31 pH	15.66 °C	96.49 µS/cm	0.18 mg/L	2.47 NTU	50.7 mV	31.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/3/2021 2:01:16 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: 84.8 ft Total Depth: 94.84 ft Initial Depth to Water: 19.34 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: 18 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Collected at 1430. 49F 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 %	+/- 5	+/- 300	+/- 10	
2/3/2021 2:01 PM	00:00	6.52 pH	15.81 °C	152.32 µS/cm	0.27 mg/L	4.54 NTU	114.6 mV	20.60 ft	100.00 ml/min
2/3/2021 2:06 PM	05:00	6.61 pH	16.42 °C	147.78 µS/cm	0.15 mg/L	3.23 NTU	115.0 mV	20.80 ft	100.00 ml/min
2/3/2021 2:11 PM	10:00	6.66 pH	16.54 °C	146.50 µS/cm	0.12 mg/L	1.45 NTU	111.1 mV	21.00 ft	100.00 ml/min
2/3/2021 2:16 PM	15:00	6.68 pH	16.61 °C	149.02 µS/cm	0.11 mg/L	1.32 NTU	111.3 mV	21.00 ft	100.00 ml/min
2/3/2021 2:21 PM	20:00	6.71 pH	16.84 °C	149.35 µS/cm	0.13 mg/L	1.88 NTU	108.2 mV	21.10 ft	100.00 ml/min
2/3/2021 2:26 PM	25:00	6.73 pH	17.06 °C	151.55 µS/cm	0.14 mg/L	1.29 NTU	106.6 mV	21.10 ft	100.00 ml/min
2/3/2021 2:31 PM	30:00	6.75 pH	17.10 °C	154.11 µS/cm	0.15 mg/L	1.24 NTU	105.4 mV	21.10 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/11/2021 8:45:33 AM

Project: Plant Wansley- Ash Pond

Operator Name: Ryan Walker

Location Name: WGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 119 ft Total Depth: 129.86 ft Initial Depth to Water: 24.01 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 124 ft Estimated Total Volume Pumped: 5000 ml Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.09 ft	Instrument Used: Aqua TROLL 500 Serial Number: 602547
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Test Notes:

Collected at 09:35. Sunny, 50 s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
3/11/2021 8:45 AM	00:00	6.82 pH	11.03 °C	59.19 µS/cm	9.32 mg/L	0.56 NTU	207.2 mV	24.01 ft	100.00 ml/min
3/11/2021 8:50 AM	05:00	5.76 pH	12.28 °C	44.94 µS/cm	3.29 mg/L	1.03 NTU	216.1 mV	24.10 ft	100.00 ml/min
3/11/2021 8:55 AM	10:00	5.65 pH	13.60 °C	49.56 µS/cm	1.23 mg/L	1.73 NTU	135.8 mV	24.10 ft	100.00 ml/min
3/11/2021 9:00 AM	15:00	5.36 pH	14.70 °C	44.08 µS/cm	0.61 mg/L	1.12 NTU	148.2 mV	24.10 ft	100.00 ml/min
3/11/2021 9:05 AM	20:00	5.25 pH	14.79 °C	45.56 µS/cm	1.52 mg/L	0.94 NTU	177.9 mV	24.10 ft	100.00 ml/min
3/11/2021 9:10 AM	25:00	5.20 pH	14.79 °C	45.42 µS/cm	1.76 mg/L	0.63 NTU	198.1 mV	24.10 ft	100.00 ml/min
3/11/2021 9:15 AM	30:00	5.21 pH	14.68 °C	44.74 µS/cm	1.73 mg/L	0.96 NTU	205.2 mV	24.10 ft	100.00 ml/min
3/11/2021 9:20 AM	35:00	5.23 pH	14.43 °C	44.13 µS/cm	1.68 mg/L	0.44 NTU	209.4 mV	24.10 ft	100.00 ml/min
3/11/2021 9:25 AM	40:00	5.20 pH	14.37 °C	42.47 µS/cm	1.67 mg/L	0.33 NTU	212.3 mV	24.10 ft	100.00 ml/min
3/11/2021 9:30 AM	45:00	5.23 pH	14.48 °C	43.44 µS/cm	1.67 mg/L	0.41 NTU	213.5 mV	24.10 ft	100.00 ml/min
3/11/2021 9:35 AM	50:00	5.26 pH	14.55 °C	43.39 µS/cm	1.67 mg/L	0.32 NTU	215.2 mV	24.10 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/10/2021 8:24:18 AM

Project: Plant Wansley- Ash Pond

Operator Name: Ryan Walker

Location Name: WGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 92 ft Total Depth: 102.65 ft Initial Depth to Water: 8.82 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 98 ft Estimated Total Volume Pumped: 3600 ml Flow Cell Volume: 130 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.68 ft	Instrument Used: Aqua TROLL 500 Serial Number: 602547
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Test Notes:

Collected at 08:55. Sunny, 50 s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
3/10/2021 8:24 AM	00:00	6.34 pH	13.84 °C	181.43 µS/cm	0.89 mg/L	1.59 NTU	32.6 mV	8.82 ft	120.00 ml/min
3/10/2021 8:29 AM	05:00	6.11 pH	14.50 °C	164.12 µS/cm	0.98 mg/L	2.10 NTU	128.1 mV	9.40 ft	120.00 ml/min
3/10/2021 8:34 AM	10:00	6.11 pH	14.65 °C	161.92 µS/cm	0.45 mg/L	1.37 NTU	177.8 mV	9.40 ft	120.00 ml/min
3/10/2021 8:39 AM	15:00	6.10 pH	14.84 °C	159.45 µS/cm	0.20 mg/L	1.23 NTU	189.7 mV	9.50 ft	120.00 ml/min
3/10/2021 8:44 AM	20:00	6.04 pH	15.09 °C	157.55 µS/cm	0.15 mg/L	0.35 NTU	195.5 mV	9.50 ft	120.00 ml/min
3/10/2021 8:49 AM	25:00	6.12 pH	15.19 °C	159.51 µS/cm	0.13 mg/L	0.19 NTU	192.5 mV	9.50 ft	120.00 ml/min
3/10/2021 8:54 AM	30:00	6.11 pH	15.16 °C	159.93 µS/cm	0.13 mg/L	0.26 NTU	194.3 mV	9.50 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/10/2021 10:19:42 AM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

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: 2.88 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 10500 ml Flow Cell Volume: 130 ml Final Flow Rate: 300 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 500 Serial Number: 601857
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Test Notes: Sampled at 1054. Sunny 55 degrees.
Dup-1 taken here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
3/10/2021 10:19 AM	00:00	7.93 pH	18.33 °C	62.93 µS/cm	7.72 mg/L	4.04 NTU	152.7 mV	2.88 ft	300.00 ml/min
3/10/2021 10:24 AM	05:00	5.48 pH	16.46 °C	31.28 µS/cm	6.13 mg/L	0.88 NTU	192.3 mV	2.88 ft	300.00 ml/min
3/10/2021 10:29 AM	10:00	5.37 pH	16.51 °C	36.87 µS/cm	6.04 mg/L	0.31 NTU	207.6 mV	2.88 ft	300.00 ml/min
3/10/2021 10:34 AM	15:00	5.41 pH	16.53 °C	35.73 µS/cm	6.00 mg/L	4.16 NTU	212.9 mV	2.88 ft	300.00 ml/min
3/10/2021 10:39 AM	20:00	5.45 pH	16.44 °C	33.69 µS/cm	6.06 mg/L	5.83 NTU	217.7 mV	2.88 ft	300.00 ml/min
3/10/2021 10:44 AM	25:00	5.47 pH	16.55 °C	29.45 µS/cm	6.02 mg/L	5.20 NTU	222.9 mV	2.88 ft	300.00 ml/min
3/10/2021 10:49 AM	30:00	5.48 pH	16.59 °C	29.38 µS/cm	6.02 mg/L	5.37 NTU	227.3 mV	2.88 ft	300.00 ml/min
3/10/2021 10:54 AM	35:00	5.49 pH	16.64 °C	30.82 µS/cm	6.03 mg/L	3.28 NTU	231.0 mV	2.88 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/10/2021 11:27:48 AM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

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: 4.68 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 69 ft Estimated Total Volume Pumped: 7050 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 1.17 ft	Instrument Used: Aqua TROLL 500 Serial Number: 601857
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Test Notes:

Sampled at 1217. Sunny 68 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
3/10/2021 11:27 AM	00:00	5.53 pH	25.46 °C	38.75 µS/cm	5.86 mg/L	2.03 NTU	228.9 mV	4.68 ft	120.00 ml/min
3/10/2021 11:32 AM	05:00	6.04 pH	25.18 °C	61.38 µS/cm	5.37 mg/L	42.7 NTU	216.6 mV	4.68 ft	120.00 ml/min
3/10/2021 11:37 AM	10:00	6.45 pH	23.69 °C	110.02 µS/cm	3.51 mg/L	49.2 NTU	205.0 mV	4.68 ft	120.00 ml/min
3/10/2021 11:42 AM	15:00	6.54 pH	23.36 °C	124.08 µS/cm	2.70 mg/L	44.5 NTU	-14.6 mV	4.91 ft	150.00 ml/min
3/10/2021 11:47 AM	20:00	6.64 pH	23.64 °C	127.79 µS/cm	2.47 mg/L	54.1 NTU	-86.6 mV	5.09 ft	150.00 ml/min
3/10/2021 11:52 AM	25:00	6.72 pH	24.01 °C	128.96 µS/cm	2.43 mg/L	46.7 NTU	-111.0 mV	5.22 ft	150.00 ml/min
3/10/2021 11:57 AM	30:00	6.80 pH	17.49 °C	116.64 µS/cm	2.53 mg/L	17.5 NTU	-78.8 mV	5.40 ft	150.00 ml/min
3/10/2021 12:02 PM	35:00	7.19 pH	17.17 °C	121.36 µS/cm	0.38 mg/L	5.72 NTU	-108.8 mV	5.55 ft	150.00 ml/min
3/10/2021 12:07 PM	40:00	7.22 pH	17.22 °C	120.82 µS/cm	0.19 mg/L	4.90 NTU	-119.0 mV	5.69 ft	150.00 ml/min
3/10/2021 12:12 PM	45:00	7.19 pH	17.34 °C	119.76 µS/cm	0.15 mg/L	4.47 NTU	-120.5 mV	5.85 ft	150.00 ml/min
3/10/2021 12:17 PM	50:00	7.19 pH	17.23 °C	118.95 µS/cm	0.14 mg/L	3.68 NTU	-120.5 mV	5.85 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/10/2021 2:12:13 PM

Project: Plant Wansley - Ash Pond

Operator Name: Hunter Auld

Location Name: WGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 13.1 ft Total Depth: 23.19 ft Initial Depth to Water: 14.2 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 46.3 liter Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.8 in	Instrument Used: Aqua TROLL 500 Serial Number: 608421
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Test Notes:

Start Purge:1400

Sampled at 1705, cloudy 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	
3/10/2021 2:12 PM	00:00	5.57 pH	17.22 °C	38.25 µS/cm	4.41 mg/L	10.1 NTU	123.1 mV	14.20 ft	250.00 ml/min
3/10/2021 2:17 PM	05:00	5.48 pH	17.24 °C	35.91 µS/cm	4.35 mg/L	13.4 NTU	156.5 mV	14.50 ft	250.00 ml/min
3/10/2021 2:22 PM	10:00	5.38 pH	16.88 °C	33.00 µS/cm	4.46 mg/L	9.69 NTU	177.5 mV	14.60 ft	250.00 ml/min
3/10/2021 2:27 PM	15:00	5.37 pH	16.69 °C	32.33 µS/cm	4.53 mg/L	10.1 NTU	191.6 mV	14.60 ft	250.00 ml/min
3/10/2021 2:32 PM	20:00	5.34 pH	17.00 °C	32.23 µS/cm	4.58 mg/L	9.90 NTU	203.3 mV	14.60 ft	250.00 ml/min
3/10/2021 2:37 PM	25:00	5.31 pH	17.02 °C	31.28 µS/cm	4.73 mg/L	11.0 NTU	212.0 mV	14.60 ft	250.00 ml/min
3/10/2021 2:42 PM	30:00	5.32 pH	16.75 °C	30.84 µS/cm	4.81 mg/L	9.36 NTU	219.3 mV	14.60 ft	250.00 ml/min
3/10/2021 2:47 PM	35:00	5.31 pH	16.81 °C	30.58 µS/cm	4.82 mg/L	10.7 NTU	223.1 mV	14.60 ft	250.00 ml/min
3/10/2021 2:52 PM	40:00	5.30 pH	16.70 °C	30.24 µS/cm	4.87 mg/L	11.2 NTU	229.0 mV	14.60 ft	250.00 ml/min
3/10/2021 2:57 PM	45:00	5.31 pH	16.68 °C	30.70 µS/cm	4.89 mg/L	11.7 NTU	232.7 mV	14.60 ft	250.00 ml/min
3/10/2021 3:02 PM	50:00	5.29 pH	16.70 °C	30.15 µS/cm	4.93 mg/L	12.2 NTU	237.5 mV	14.60 ft	250.00 ml/min
3/10/2021 3:07 PM	55:00	5.28 pH	16.64 °C	29.92 µS/cm	4.99 mg/L	13.1 NTU	241.0 mV	14.60 ft	250.00 ml/min
3/10/2021 3:12 PM	01:00:00	5.28 pH	16.36 °C	30.04 µS/cm	5.02 mg/L	15.3 NTU	243.5 mV	14.60 ft	250.00 ml/min
3/10/2021 3:17 PM	01:05:00	5.27 pH	16.66 °C	29.64 µS/cm	5.05 mg/L	16.2 NTU	247.0 mV	14.60 ft	250.00 ml/min
3/10/2021 3:22 PM	01:10:00	5.23 pH	17.00 °C	28.43 µS/cm	5.18 mg/L	19.1 NTU	253.5 mV	14.60 ft	250.00 ml/min

3/10/2021 3:27 PM	01:15:00	5.26 pH	17.06 °C	29.69 µS/cm	5.06 mg/L	21.4 NTU	255.4 mV	14.60 ft	250.00 ml/min
3/10/2021 3:32 PM	01:20:00	5.25 pH	17.08 °C	30.06 µS/cm	5.02 mg/L	34.2 NTU	258.4 mV	14.60 ft	250.00 ml/min
3/10/2021 3:37 PM	01:25:00	5.23 pH	17.44 °C	29.53 µS/cm	4.97 mg/L	20.6 NTU	261.7 mV	14.60 ft	250.00 ml/min
3/10/2021 3:42 PM	01:30:00	5.24 pH	17.46 °C	29.01 µS/cm	5.20 mg/L	12.5 NTU	263.3 mV	14.60 ft	250.00 ml/min
3/10/2021 3:47 PM	01:35:00	5.24 pH	17.26 °C	28.77 µS/cm	5.14 mg/L	9.62 NTU	262.9 mV	14.60 ft	250.00 ml/min
3/10/2021 3:52 PM	01:40:00	5.24 pH	16.94 °C	28.94 µS/cm	5.12 mg/L	9.41 NTU	265.7 mV	14.60 ft	250.00 ml/min
3/10/2021 3:57 PM	01:45:00	5.23 pH	17.02 °C	28.81 µS/cm	5.11 mg/L	8.90 NTU	268.1 mV	14.60 ft	250.00 ml/min
3/10/2021 4:02 PM	01:50:00	5.24 pH	17.07 °C	29.83 µS/cm	5.01 mg/L	10.4 NTU	269.7 mV	14.60 ft	250.00 ml/min
3/10/2021 4:07 PM	01:55:00	5.24 pH	16.91 °C	29.27 µS/cm	5.06 mg/L	9.95 NTU	270.2 mV	14.60 ft	250.00 ml/min
3/10/2021 4:12 PM	02:00:00	5.25 pH	16.86 °C	29.35 µS/cm	5.04 mg/L	10.2 NTU	269.2 mV	14.60 ft	250.00 ml/min
3/10/2021 4:17 PM	02:05:00	5.23 pH	16.86 °C	29.16 µS/cm	5.10 mg/L	9.30 NTU	270.2 mV	14.60 ft	250.00 ml/min
3/10/2021 4:22 PM	02:10:00	5.24 pH	17.06 °C	29.53 µS/cm	5.05 mg/L	9.40 NTU	272.0 mV	14.60 ft	250.00 ml/min
3/10/2021 4:27 PM	02:15:00	5.24 pH	17.11 °C	29.22 µS/cm	5.05 mg/L	9.40 NTU	273.6 mV	14.60 ft	250.00 ml/min
3/10/2021 4:32 PM	02:20:00	5.23 pH	16.80 °C	29.39 µS/cm	5.07 mg/L	9.50 NTU	275.7 mV	14.60 ft	250.00 ml/min
3/10/2021 4:37 PM	02:25:00	5.22 pH	16.97 °C	28.94 µS/cm	5.07 mg/L	9.20 NTU	277.3 mV	14.60 ft	250.00 ml/min
3/10/2021 4:42 PM	02:30:00	5.24 pH	16.75 °C	29.83 µS/cm	5.01 mg/L	9.00 NTU	277.7 mV	14.60 ft	250.00 ml/min
3/10/2021 4:47 PM	02:35:00	5.23 pH	16.50 °C	29.11 µS/cm	5.08 mg/L	9.20 NTU	280.2 mV	14.60 ft	250.00 ml/min
3/10/2021 4:52 PM	02:40:00	5.23 pH	16.52 °C	29.26 µS/cm	5.08 mg/L	9.00 NTU	280.5 mV	14.60 ft	250.00 ml/min
3/10/2021 4:57 PM	02:45:00	5.22 pH	16.79 °C	29.07 µS/cm	5.08 mg/L	9.10 NTU	281.6 mV	14.60 ft	250.00 ml/min
3/10/2021 5:02 PM	02:50:00	5.22 pH	16.94 °C	28.83 µS/cm	5.06 mg/L	9.10 NTU	282.7 mV	14.60 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/11/2021 10:18:50 AM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

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: 15.34 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 99 ft Estimated Total Volume Pumped: 5200 ml Flow Cell Volume: 130 ml Final Flow Rate: 140 ml/min Final Draw Down: 1.94 ft	Instrument Used: Aqua TROLL 500 Serial Number: 601857
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Test Notes: Sampled at 1058. Sunny 63 degrees.
FB-1 taken here at 1030.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
3/11/2021 10:18 AM	00:00	7.16 pH	16.24 °C	160.45 µS/cm	9.24 mg/L	0.57 NTU	190.6 mV	15.34 ft	100.00 ml/min
3/11/2021 10:23 AM	05:00	7.36 pH	16.48 °C	142.71 µS/cm	1.31 mg/L	0.63 NTU	-50.9 mV	15.67 ft	120.00 ml/min
3/11/2021 10:28 AM	10:00	7.81 pH	16.49 °C	132.64 µS/cm	1.12 mg/L	0.72 NTU	-78.1 mV	15.95 ft	120.00 ml/min
3/11/2021 10:33 AM	15:00	7.87 pH	16.51 °C	147.64 µS/cm	0.91 mg/L	0.24 NTU	-98.5 mV	16.24 ft	140.00 ml/min
3/11/2021 10:38 AM	20:00	7.90 pH	16.49 °C	137.88 µS/cm	0.58 mg/L	0.26 NTU	-111.9 mV	16.50 ft	140.00 ml/min
3/11/2021 10:43 AM	25:00	7.91 pH	16.54 °C	136.88 µS/cm	0.54 mg/L	0.57 NTU	-118.9 mV	16.76 ft	140.00 ml/min
3/11/2021 10:48 AM	30:00	7.92 pH	16.54 °C	125.93 µS/cm	0.49 mg/L	1.24 NTU	-123.3 mV	16.92 ft	140.00 ml/min
3/11/2021 10:53 AM	35:00	7.92 pH	16.58 °C	124.24 µS/cm	0.48 mg/L	0.16 NTU	-125.7 mV	17.10 ft	140.00 ml/min
3/11/2021 10:58 AM	40:00	7.93 pH	16.60 °C	131.21 µS/cm	0.43 mg/L	0.37 NTU	-127.7 mV	17.28 ft	140.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/10/2021 1:10:22 PM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

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: 25.21 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 7700 ml Flow Cell Volume: 130 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.11 ft	Instrument Used: Aqua TROLL 500 Serial Number: 601857
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Test Notes:

Sampled at 1345. Sunny 72 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
3/10/2021 1:10 PM	00:00	5.94 pH	22.18 °C	25.42 µS/cm	6.71 mg/L	4.92 NTU	113.1 mV	25.21 ft	220.00 ml/min
3/10/2021 1:15 PM	05:00	5.23 pH	17.92 °C	26.39 µS/cm	7.40 mg/L	3.20 NTU	172.0 mV	25.32 ft	220.00 ml/min
3/10/2021 1:20 PM	10:00	5.12 pH	17.71 °C	26.42 µS/cm	7.44 mg/L	5.88 NTU	190.3 mV	25.32 ft	220.00 ml/min
3/10/2021 1:25 PM	15:00	5.05 pH	17.93 °C	25.41 µS/cm	7.43 mg/L	5.37 NTU	201.8 mV	25.32 ft	220.00 ml/min
3/10/2021 1:30 PM	20:00	5.02 pH	17.89 °C	25.30 µS/cm	7.36 mg/L	4.84 NTU	209.3 mV	25.32 ft	220.00 ml/min
3/10/2021 1:35 PM	25:00	4.99 pH	17.94 °C	25.30 µS/cm	7.37 mg/L	5.67 NTU	214.8 mV	25.32 ft	220.00 ml/min
3/10/2021 1:40 PM	30:00	4.96 pH	18.07 °C	25.29 µS/cm	7.36 mg/L	6.48 NTU	219.4 mV	25.32 ft	220.00 ml/min
3/10/2021 1:45 PM	35:00	4.96 pH	18.18 °C	25.27 µS/cm	7.33 mg/L	4.35 NTU	222.2 mV	25.32 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/10/2021 2:27:49 PM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

Location Name: WGWA-18 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: 20.36 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 8900 ml Flow Cell Volume: 130 ml Final Flow Rate: 120 ml/min Final Draw Down: 3.36 ft	Instrument Used: Aqua TROLL 500 Serial Number: 601857
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Test Notes:

Sampled at 1542. Partly cloudy 73 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
3/10/2021 2:27 PM	00:00	6.52 pH	21.35 °C	82.04 µS/cm	7.72 mg/L	0.36 NTU	165.8 mV	20.36 ft	100.00 ml/min
3/10/2021 2:32 PM	05:00	6.72 pH	18.01 °C	120.46 µS/cm	2.18 mg/L	0.33 NTU	-55.5 mV	21.70 ft	120.00 ml/min
3/10/2021 2:37 PM	10:00	6.70 pH	17.79 °C	115.92 µS/cm	1.82 mg/L	0.17 NTU	-67.5 mV	22.30 ft	120.00 ml/min
3/10/2021 2:42 PM	15:00	6.27 pH	17.65 °C	98.66 µS/cm	3.11 mg/L	0.24 NTU	-39.6 mV	22.40 ft	120.00 ml/min
3/10/2021 2:47 PM	20:00	6.08 pH	17.59 °C	95.51 µS/cm	2.99 mg/L	0.22 NTU	-19.9 mV	22.50 ft	120.00 ml/min
3/10/2021 2:52 PM	25:00	5.99 pH	17.61 °C	93.07 µS/cm	2.71 mg/L	0.21 NTU	-2.2 mV	22.61 ft	120.00 ml/min
3/10/2021 2:57 PM	30:00	5.93 pH	17.49 °C	93.47 µS/cm	2.15 mg/L	0.22 NTU	13.2 mV	22.76 ft	120.00 ml/min
3/10/2021 3:02 PM	35:00	5.92 pH	17.63 °C	93.62 µS/cm	1.67 mg/L	0.18 NTU	23.8 mV	22.87 ft	120.00 ml/min
3/10/2021 3:07 PM	40:00	5.90 pH	17.55 °C	92.36 µS/cm	1.35 mg/L	0.18 NTU	33.3 mV	22.99 ft	120.00 ml/min
3/10/2021 3:12 PM	45:00	5.86 pH	17.46 °C	90.64 µS/cm	1.08 mg/L	0.21 NTU	41.2 mV	23.11 ft	120.00 ml/min
3/10/2021 3:17 PM	50:00	5.86 pH	17.49 °C	87.31 µS/cm	1.44 mg/L	0.17 NTU	46.7 mV	23.20 ft	120.00 ml/min
3/10/2021 3:22 PM	55:00	5.82 pH	17.45 °C	82.83 µS/cm	1.98 mg/L	0.28 NTU	56.4 mV	23.31 ft	120.00 ml/min
3/10/2021 3:27 PM	01:00:00	5.80 pH	17.56 °C	80.57 µS/cm	2.43 mg/L	0.31 NTU	65.2 mV	23.40 ft	120.00 ml/min
3/10/2021 3:32 PM	01:05:00	5.83 pH	17.73 °C	77.99 µS/cm	2.82 mg/L	0.24 NTU	70.3 mV	23.50 ft	120.00 ml/min
3/10/2021 3:37 PM	01:10:00	5.81 pH	17.55 °C	76.14 µS/cm	2.86 mg/L	0.22 NTU	76.6 mV	23.61 ft	120.00 ml/min

3/10/2021 3:42 PM	01:15:00	5.80 pH	17.52 °C	76.47 µS/cm	2.98 mg/L	0.18 NTU	80.9 mV	23.72 ft	120.00 ml/min
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Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/11/2021 11:40:53 AM

Project: Plant Wansley- Ash Pond

Operator Name: Ryan Walker

Location Name: WGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49 ft Total Depth: 59.63 ft Initial Depth to Water: 4.34 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 54 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.46 ft	Instrument Used: Aqua TROLL 500 Serial Number: 602547
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Test Notes:

Collected at 12:12. Sunny 60 s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
3/11/2021 11:40 AM	00:00	5.82 pH	16.03 °C	911.71 µS/cm	4.43 mg/L	1.93 NTU	200.5 mV	4.34 ft	100.00 ml/min
3/11/2021 11:45 AM	05:00	5.70 pH	16.08 °C	898.67 µS/cm	2.50 mg/L	2.45 NTU	205.8 mV	4.80 ft	100.00 ml/min
3/11/2021 11:50 AM	10:00	5.52 pH	16.23 °C	909.38 µS/cm	2.10 mg/L	1.78 NTU	212.3 mV	4.80 ft	100.00 ml/min
3/11/2021 11:55 AM	15:00	5.44 pH	16.44 °C	915.78 µS/cm	1.94 mg/L	1.22 NTU	217.0 mV	4.80 ft	100.00 ml/min
3/11/2021 12:00 PM	20:00	5.39 pH	16.34 °C	916.51 µS/cm	1.82 mg/L	1.27 NTU	219.7 mV	4.80 ft	100.00 ml/min
3/11/2021 12:05 PM	25:00	5.36 pH	16.62 °C	917.67 µS/cm	1.71 mg/L	1.46 NTU	221.9 mV	4.80 ft	100.00 ml/min
3/11/2021 12:10 PM	30:00	5.35 pH	16.61 °C	918.47 µS/cm	1.58 mg/L	1.52 NTU	224.4 mV	4.80 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/12/2021 9:40:30 AM

Project: Plant Wansley - Ash Pond

Operator Name: Hunter Auld

Location Name: WGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.4 ft Total Depth: 61.42 ft Initial Depth to Water: 19.58 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 56 ft Estimated Total Volume Pumped: 5.2 liter Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 27.8 in	Instrument Used: Aqua TROLL 500 Serial Number: 608421
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Test Notes:

Sampled at 1007, sunny 60s.

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	
3/12/2021 9:40 AM	00:00	6.12 pH	18.49 °C	177.45 µS/cm	2.76 mg/L	1.78 NTU	213.2 mV	19.58 ft	100.00 ml/min
3/12/2021 9:45 AM	05:00	5.87 pH	18.63 °C	176.81 µS/cm	1.47 mg/L	3.55 NTU	211.2 mV	21.70 ft	100.00 ml/min
3/12/2021 9:50 AM	10:00	5.87 pH	18.79 °C	176.38 µS/cm	1.41 mg/L	2.19 NTU	207.3 mV	21.70 ft	100.00 ml/min
3/12/2021 9:55 AM	15:00	5.88 pH	18.83 °C	176.32 µS/cm	1.39 mg/L	4.98 NTU	204.2 mV	21.80 ft	100.00 ml/min
3/12/2021 10:00 AM	20:00	5.88 pH	19.10 °C	175.12 µS/cm	1.33 mg/L	3.59 NTU	203.5 mV	21.80 ft	100.00 ml/min
3/12/2021 10:05 AM	25:00	5.88 pH	19.10 °C	176.61 µS/cm	1.37 mg/L	2.30 NTU	202.6 mV	21.90 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/11/2021 3:38:29 PM

Project: Plant Wansley- Ash Pond

Operator Name: Ryan Walker

Location Name: WGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 138 ft Total Depth: 148.98 ft Initial Depth to Water: 14.65 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 143 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.65 ft	Instrument Used: Aqua TROLL 500 Serial Number: 602547
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Test Notes:

Collected at 16:25. Sunny, 60 s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
3/11/2021 3:38 PM	00:00	7.29 pH	24.63 °C	29.31 µS/cm	8.06 mg/L	0.38 NTU	64.8 mV	14.65 ft	100.00 ml/min
3/11/2021 3:43 PM	05:00	6.74 pH	18.73 °C	82.46 µS/cm	4.34 mg/L	1.22 NTU	90.5 mV	15.90 ft	100.00 ml/min
3/11/2021 3:48 PM	10:00	6.47 pH	17.80 °C	80.59 µS/cm	0.91 mg/L	1.37 NTU	108.1 mV	15.50 ft	100.00 ml/min
3/11/2021 3:53 PM	15:00	6.43 pH	17.45 °C	79.92 µS/cm	1.33 mg/L	1.23 NTU	116.9 mV	15.80 ft	100.00 ml/min
3/11/2021 3:58 PM	20:00	6.45 pH	17.55 °C	80.22 µS/cm	2.28 mg/L	1.11 NTU	123.0 mV	15.90 ft	100.00 ml/min
3/11/2021 4:03 PM	25:00	6.50 pH	17.42 °C	81.44 µS/cm	3.67 mg/L	1.08 NTU	127.5 mV	16.00 ft	100.00 ml/min
3/11/2021 4:08 PM	30:00	6.54 pH	17.30 °C	82.40 µS/cm	4.67 mg/L	1.12 NTU	131.6 mV	16.10 ft	100.00 ml/min
3/11/2021 4:13 PM	35:00	6.54 pH	17.20 °C	82.59 µS/cm	5.02 mg/L	1.17 NTU	135.7 mV	16.20 ft	100.00 ml/min
3/11/2021 4:18 PM	40:00	6.53 pH	17.07 °C	82.50 µS/cm	5.10 mg/L	1.35 NTU	140.0 mV	16.30 ft	100.00 ml/min
3/11/2021 4:23 PM	45:00	6.56 pH	17.28 °C	82.68 µS/cm	5.12 mg/L	1.22 NTU	140.8 mV	16.30 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/12/2021 11:24:16 PM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

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: 20.11 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 44 ft Estimated Total Volume Pumped: 4125 ml Flow Cell Volume: 130 ml Final Flow Rate: 125 ml/min Final Draw Down: 5.16 ft	Instrument Used: Aqua TROLL 500 Serial Number: 601857
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Test Notes:

Sampled at 1154. Sunny 72 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
3/12/2021 11:24 AM	00:00	7.07 pH	20.92 °C	37.73 µS/cm	7.90 mg/L	4.75 NTU	130.6 mV	20.11 ft	150.00 ml/min
3/12/2021 11:29 AM	05:00	5.40 pH	17.69 °C	31.21 µS/cm	8.49 mg/L	33.4 NTU	235.4 mV	21.13 ft	150.00 ml/min
3/12/2021 11:34 AM	10:00	5.29 pH	17.58 °C	30.68 µS/cm	8.35 mg/L	20.2 NTU	264.3 mV	24.00 ft	150.00 ml/min
3/12/2021 11:39 AM	15:00	5.30 pH	17.67 °C	31.02 µS/cm	8.37 mg/L	15.6 NTU	276.2 mV	24.77 ft	125.00 ml/min
3/12/2021 11:44 AM	20:00	5.34 pH	17.94 °C	31.51 µS/cm	8.34 mg/L	8.79 NTU	282.0 mV	25.10 ft	125.00 ml/min
3/12/2021 11:49 AM	25:00	5.43 pH	18.25 °C	32.05 µS/cm	8.34 mg/L	5.36 NTU	283.0 mV	25.22 ft	125.00 ml/min
3/12/2021 11:54 AM	30:00	5.43 pH	18.10 °C	32.48 µS/cm	8.36 mg/L	3.10 NTU	286.1 mV	25.27 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/12/2021 10:09:29 AM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

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: 19.87 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 71 ft Estimated Total Volume Pumped: 10600 ml Flow Cell Volume: 130 ml Final Flow Rate: 220 ml/min Final Draw Down: 1.19 ft	Instrument Used: Aqua TROLL 500 Serial Number: 601857
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Test Notes:

Sampled at 1059. Sunny 69 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
3/12/2021 10:09 AM	00:00	6.61 pH	17.93 °C	102.99 µS/cm	5.10 mg/L	9.52 NTU	238.4 mV	19.87 ft	140.00 ml/min
3/12/2021 10:14 AM	05:00	6.33 pH	17.27 °C	86.70 µS/cm	0.72 mg/L	751 NTU	91.2 mV	20.51 ft	220.00 ml/min
3/12/2021 10:19 AM	10:00	6.43 pH	17.40 °C	88.62 µS/cm	0.20 mg/L	143 NTU	79.1 mV	20.59 ft	220.00 ml/min
3/12/2021 10:24 AM	15:00	6.50 pH	17.32 °C	92.10 µS/cm	0.17 mg/L	106 NTU	71.5 mV	20.65 ft	220.00 ml/min
3/12/2021 10:29 AM	20:00	6.51 pH	17.29 °C	98.15 µS/cm	0.19 mg/L	61.8 NTU	67.7 mV	20.71 ft	220.00 ml/min
3/12/2021 10:34 AM	25:00	6.57 pH	17.28 °C	96.11 µS/cm	0.18 mg/L	47.3 NTU	62.3 mV	20.78 ft	220.00 ml/min
3/12/2021 10:39 AM	30:00	6.60 pH	17.32 °C	97.27 µS/cm	0.18 mg/L	37.1 NTU	59.2 mV	20.84 ft	220.00 ml/min
3/12/2021 10:44 AM	35:00	6.63 pH	17.39 °C	92.98 µS/cm	0.17 mg/L	22.9 NTU	57.1 mV	20.90 ft	220.00 ml/min
3/12/2021 10:49 AM	40:00	6.66 pH	17.42 °C	108.36 µS/cm	0.17 mg/L	9.42 NTU	55.1 mV	20.95 ft	220.00 ml/min
3/12/2021 10:54 AM	45:00	6.66 pH	17.34 °C	110.53 µS/cm	0.17 mg/L	6.35 NTU	54.8 mV	21.00 ft	220.00 ml/min
3/12/2021 10:59 AM	50:00	6.66 pH	17.31 °C	110.33 µS/cm	0.18 mg/L	4.73 NTU	54.8 mV	21.06 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/11/2021 1:23:36 PM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

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: 19.46 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 3600 ml Flow Cell Volume: 130 ml Final Flow Rate: 120 ml/min Final Draw Down: 3.04 ft	Instrument Used: Aqua TROLL 500 Serial Number: 601857
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Test Notes:

Sampled at 1353. Sunny 72 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
3/11/2021 1:23 PM	00:00	6.74 pH	22.84 °C	53.47 µS/cm	7.50 mg/L	0.86 NTU	95.7 mV	19.46 ft	120.00 ml/min
3/11/2021 1:28 PM	05:00	5.95 pH	18.65 °C	56.34 µS/cm	2.53 mg/L	2.95 NTU	135.1 mV	20.22 ft	120.00 ml/min
3/11/2021 1:33 PM	10:00	5.99 pH	18.42 °C	58.41 µS/cm	3.06 mg/L	6.94 NTU	145.2 mV	21.88 ft	120.00 ml/min
3/11/2021 1:38 PM	15:00	5.95 pH	18.02 °C	57.79 µS/cm	3.01 mg/L	5.85 NTU	152.3 mV	22.29 ft	120.00 ml/min
3/11/2021 1:43 PM	20:00	5.95 pH	17.93 °C	57.75 µS/cm	2.97 mg/L	4.97 NTU	156.4 mV	22.37 ft	120.00 ml/min
3/11/2021 1:48 PM	25:00	5.94 pH	18.03 °C	57.86 µS/cm	2.87 mg/L	4.17 NTU	159.8 mV	22.46 ft	120.00 ml/min
3/11/2021 1:53 PM	30:00	5.95 pH	18.03 °C	58.22 µS/cm	2.83 mg/L	3.67 NTU	162.1 mV	22.50 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/11/2021 2:31:17 PM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

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: 18.53 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 6750 ml Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 2.97 ft	Instrument Used: Aqua TROLL 500 Serial Number: 601857
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Test Notes:

Sampled at 1516. Sunny 73 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
3/11/2021 2:31 PM	00:00	5.96 pH	23.92 °C	28.56 µS/cm	6.58 mg/L	1.62 NTU	162.1 mV	18.53 ft	150.00 ml/min
3/11/2021 2:36 PM	05:00	5.39 pH	18.43 °C	25.63 µS/cm	5.46 mg/L	1.24 NTU	202.7 mV	19.46 ft	150.00 ml/min
3/11/2021 2:41 PM	10:00	5.28 pH	18.23 °C	25.55 µS/cm	5.42 mg/L	0.63 NTU	220.7 mV	20.23 ft	150.00 ml/min
3/11/2021 2:46 PM	15:00	5.20 pH	18.45 °C	25.56 µS/cm	5.38 mg/L	1.28 NTU	232.8 mV	20.91 ft	150.00 ml/min
3/11/2021 2:51 PM	20:00	5.07 pH	18.60 °C	27.46 µS/cm	3.48 mg/L	0.88 NTU	242.7 mV	20.98 ft	150.00 ml/min
3/11/2021 2:56 PM	25:00	5.04 pH	18.63 °C	28.87 µS/cm	2.45 mg/L	1.04 NTU	248.9 mV	21.10 ft	150.00 ml/min
3/11/2021 3:01 PM	30:00	5.05 pH	18.31 °C	30.23 µS/cm	1.83 mg/L	3.87 NTU	249.5 mV	21.21 ft	150.00 ml/min
3/11/2021 3:06 PM	35:00	5.05 pH	18.13 °C	31.04 µS/cm	1.47 mg/L	4.50 NTU	249.6 mV	21.30 ft	150.00 ml/min
3/11/2021 3:11 PM	40:00	5.09 pH	18.24 °C	31.43 µS/cm	1.65 mg/L	4.88 NTU	246.5 mV	21.41 ft	150.00 ml/min
3/11/2021 3:16 PM	45:00	5.10 pH	18.15 °C	31.78 µS/cm	1.54 mg/L	4.31 NTU	243.0 mV	21.50 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/12/2021 11:09:52 AM

Project: Plant Wansley - Ash Pond

Operator Name: Hunter Auld

Location Name: WGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.3 ft Total Depth: 53.36 ft Initial Depth to Water: 20.13 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48.3 ft Estimated Total Volume Pumped: 5.2 liter Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 16.4 in	Instrument Used: Aqua TROLL 500 Serial Number: 608421
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Test Notes:

Sampled at 1157, sunny 70s, FB-2 here at 1205.

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	
3/12/2021 11:09 AM	00:00	7.02 pH	20.58 °C	133.07 µS/cm	8.52 mg/L	0.13 NTU	164.9 mV	20.13 ft	100.00 ml/min
3/12/2021 11:14 AM	05:00	7.12 pH	17.36 °C	207.78 µS/cm	3.28 mg/L	0.30 NTU	144.7 mV	20.70 ft	100.00 ml/min
3/12/2021 11:19 AM	10:00	7.33 pH	17.57 °C	224.05 µS/cm	2.20 mg/L	0.93 NTU	71.9 mV	20.80 ft	100.00 ml/min
3/12/2021 11:24 AM	15:00	7.54 pH	18.05 °C	227.49 µS/cm	1.61 mg/L	0.21 NTU	19.1 mV	20.90 ft	100.00 ml/min
3/12/2021 11:29 AM	20:00	7.65 pH	17.79 °C	220.79 µS/cm	1.73 mg/L	1.20 NTU	7.2 mV	21.00 ft	100.00 ml/min
3/12/2021 11:34 AM	25:00	7.69 pH	18.01 °C	215.23 µS/cm	2.35 mg/L	1.10 NTU	8.6 mV	21.10 ft	100.00 ml/min
3/12/2021 11:39 AM	30:00	7.70 pH	17.83 °C	209.47 µS/cm	2.85 mg/L	0.60 NTU	18.3 mV	21.20 ft	100.00 ml/min
3/12/2021 11:44 AM	35:00	7.71 pH	18.40 °C	207.77 µS/cm	3.19 mg/L	0.50 NTU	25.3 mV	21.30 ft	100.00 ml/min
3/12/2021 11:49 AM	40:00	7.71 pH	18.61 °C	206.45 µS/cm	3.33 mg/L	0.40 NTU	30.5 mV	21.40 ft	100.00 ml/min
3/12/2021 11:54 AM	45:00	7.72 pH	18.57 °C	205.88 µS/cm	3.33 mg/L	0.60 NTU	34.4 mV	21.50 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/11/2021 1:20:36 PM

Project: Plant Wansley - Ash Pond

Operator Name: Hunter Auld

Location Name: WGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.7 ft Total Depth: 34.78 ft Initial Depth to Water: 19.09 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 29.7 ft Estimated Total Volume Pumped: 4.8 liter Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 2.5 in	Instrument Used: Aqua TROLL 500 Serial Number: 608421
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Test Notes:

Sampled at 1347, sunny 70s, EB-2 here at 1355- gloves.

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	
3/11/2021 1:20 PM	00:00	5.28 pH	17.29 °C	350.27 µS/cm	4.56 mg/L	4.40 NTU	129.1 mV	19.09 ft	125.00 ml/min
3/11/2021 1:25 PM	05:00	5.25 pH	17.07 °C	350.97 µS/cm	3.82 mg/L	4.23 NTU	153.2 mV	19.30 ft	150.00 ml/min
3/11/2021 1:30 PM	10:00	5.22 pH	16.91 °C	351.12 µS/cm	3.75 mg/L	3.76 NTU	168.7 mV	19.30 ft	150.00 ml/min
3/11/2021 1:35 PM	15:00	5.22 pH	17.07 °C	350.89 µS/cm	3.71 mg/L	2.50 NTU	179.4 mV	19.30 ft	150.00 ml/min
3/11/2021 1:40 PM	20:00	5.22 pH	16.95 °C	351.38 µS/cm	3.72 mg/L	1.80 NTU	187.9 mV	19.30 ft	150.00 ml/min
3/11/2021 1:45 PM	25:00	5.21 pH	17.02 °C	352.42 µS/cm	3.76 mg/L	1.20 NTU	193.4 mV	19.30 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/11/2021 11:41:19 AM

Project: Plant Wansley - Ash Pond

Operator Name: T. Goble

Location Name: WGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 in Top of Screen: 85.9 ft Total Depth: 95.94 ft Initial Depth to Water: 30.04 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 2.98 ft	Instrument Used: Aqua TROLL 500 Serial Number: 601857
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Test Notes:

Sampled at 1210. Sunny 68 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
3/11/2021 11:41 AM	00:00	7.19 pH	19.66 °C	73.27 µS/cm	7.72 mg/L	0.61 NTU	69.7 mV	30.04 ft	200.00 ml/min
3/11/2021 11:46 AM	05:00	5.88 pH	17.45 °C	78.49 µS/cm	0.56 mg/L	1.00 NTU	28.3 mV	30.91 ft	200.00 ml/min
3/11/2021 11:51 AM	10:00	5.89 pH	17.50 °C	77.48 µS/cm	0.70 mg/L	0.59 NTU	49.8 mV	32.40 ft	200.00 ml/min
3/11/2021 11:56 AM	15:00	5.91 pH	17.40 °C	77.88 µS/cm	0.62 mg/L	0.79 NTU	43.8 mV	32.68 ft	200.00 ml/min
3/11/2021 12:01 PM	20:00	5.93 pH	17.41 °C	78.16 µS/cm	0.43 mg/L	0.62 NTU	38.2 mV	32.82 ft	200.00 ml/min
3/11/2021 12:06 PM	25:00	5.95 pH	17.48 °C	78.26 µS/cm	0.34 mg/L	0.47 NTU	35.7 mV	32.90 ft	200.00 ml/min
3/11/2021 12:11 PM	30:00	5.96 pH	17.47 °C	75.35 µS/cm	0.29 mg/L	0.59 NTU	34.1 mV	33.02 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/11/2021 1:58:34 PM

Project: Plant Wansley- Ash Pond

Operator Name: Ryan Walker

Location Name: WGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 84 ft Total Depth: 94.84 ft Initial Depth to Water: 18.96 ft	Pump Type: QED Bladder pump Tubing Type: Poly Pump Intake From TOC: 89 ft Estimated Total Volume Pumped: 12250 ml Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 2.14 ft	Instrument Used: Aqua TROLL 500 Serial Number: 602547
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Test Notes:

Collected at 14:55. Sunny, 70 s. Dup-2 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
3/11/2021 1:58 PM	00:00	6.97 pH	17.88 °C	184.65 µS/cm	1.65 mg/L	0.33 NTU	-85.3 mV	18.96 ft	200.00 ml/min
3/11/2021 2:03 PM	05:00	6.94 pH	17.95 °C	169.54 µS/cm	0.36 mg/L	0.73 NTU	-31.9 mV	21.00 ft	200.00 ml/min
3/11/2021 2:08 PM	10:00	6.89 pH	18.05 °C	168.46 µS/cm	0.12 mg/L	0.68 NTU	-3.9 mV	21.00 ft	200.00 ml/min
3/11/2021 2:13 PM	15:00	6.93 pH	17.93 °C	168.85 µS/cm	0.09 mg/L	0.55 NTU	11.3 mV	21.00 ft	200.00 ml/min
3/11/2021 2:18 PM	20:00	6.96 pH	18.04 °C	170.84 µS/cm	0.09 mg/L	0.42 NTU	24.7 mV	21.00 ft	200.00 ml/min
3/11/2021 2:23 PM	25:00	6.94 pH	17.92 °C	173.28 µS/cm	0.09 mg/L	0.57 NTU	37.2 mV	21.10 ft	200.00 ml/min
3/11/2021 2:28 PM	30:00	6.99 pH	17.87 °C	178.20 µS/cm	0.10 mg/L	0.50 NTU	44.9 mV	21.10 ft	250.00 ml/min
3/11/2021 2:33 PM	35:00	7.01 pH	18.28 °C	184.74 µS/cm	0.10 mg/L	0.63 NTU	52.5 mV	21.10 ft	250.00 ml/min
3/11/2021 2:38 PM	40:00	7.04 pH	17.72 °C	190.36 µS/cm	0.13 mg/L	0.50 NTU	55.1 mV	21.10 ft	250.00 ml/min
3/11/2021 2:43 PM	45:00	7.09 pH	17.98 °C	194.08 µS/cm	0.12 mg/L	0.67 NTU	47.2 mV	21.10 ft	250.00 ml/min
3/11/2021 2:48 PM	50:00	7.07 pH	18.21 °C	196.69 µS/cm	0.13 mg/L	0.61 NTU	40.7 mV	21.10 ft	250.00 ml/min
3/11/2021 2:53 PM	55:00	7.12 pH	17.93 °C	199.82 µS/cm	0.14 mg/L	0.59 NTU	39.9 mV	21.10 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/8/2021 2:35:51 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Hunter Auld

Location Name: PZ-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.8 ft Total Depth: 42.85 ft Initial Depth to Water: 25.86 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 36 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 6.5 in	Instrument Used: Aqua TROLL 500 Serial Number: 608421
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Test Notes:

Sampled at 1525, sunny 60s.

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	
3/8/2021 2:35 PM	00:00	5.56 pH	19.75 °C	715.57 µS/cm	6.50 mg/L	9.44 NTU	195.3 mV	25.86 ft	150.00 ml/min
3/8/2021 2:40 PM	05:00	5.55 pH	19.48 °C	724.97 µS/cm	5.03 mg/L	22.0 NTU	211.0 mV	26.20 ft	150.00 ml/min
3/8/2021 2:45 PM	10:00	5.55 pH	19.41 °C	724.55 µS/cm	4.94 mg/L	8.37 NTU	219.2 mV	26.20 ft	150.00 ml/min
3/8/2021 2:50 PM	15:00	5.55 pH	19.49 °C	725.20 µS/cm	4.89 mg/L	5.95 NTU	224.2 mV	26.30 ft	150.00 ml/min
3/8/2021 2:55 PM	20:00	5.55 pH	19.47 °C	727.48 µS/cm	4.86 mg/L	9.32 NTU	227.8 mV	26.30 ft	150.00 ml/min
3/8/2021 3:00 PM	25:00	5.55 pH	19.39 °C	728.69 µS/cm	4.90 mg/L	8.41 NTU	230.6 mV	26.40 ft	150.00 ml/min
3/8/2021 3:05 PM	30:00	5.55 pH	19.34 °C	728.43 µS/cm	4.93 mg/L	8.44 NTU	234.1 mV	26.40 ft	150.00 ml/min
3/8/2021 3:10 PM	35:00	5.54 pH	19.50 °C	728.64 µS/cm	4.84 mg/L	7.87 NTU	234.3 mV	26.40 ft	150.00 ml/min
3/8/2021 3:15 PM	40:00	5.54 pH	19.72 °C	728.68 µS/cm	4.82 mg/L	5.39 NTU	235.4 mV	26.40 ft	150.00 ml/min
3/8/2021 3:20 PM	45:00	5.54 pH	19.44 °C	733.17 µS/cm	5.05 mg/L	3.02 NTU	234.3 mV	26.40 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/9/2021 1:27:21 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Ryan Walker

Location Name: PZ-23D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 84 ft Total Depth: 94.8 ft Initial Depth to Water: 48.94 ft	Pump Type: Bladder pump Tubing Type: Poly Pump Intake From TOC: 89 ft Estimated Total Volume Pumped: 9600 ml Flow Cell Volume: 130 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.19 ft	Instrument Used: Aqua TROLL 500 Serial Number: 602547
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Test Notes:

Collected at 14:50. Sunny 60 s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
3/9/2021 1:27 PM	00:00	7.27 pH	19.25 °C	622.69 µS/cm	3.30 mg/L	3.72 NTU	7.9 mV	48.94 ft	120.00 ml/min
3/9/2021 1:32 PM	05:00	7.24 pH	18.41 °C	599.80 µS/cm	1.63 mg/L	6.62 NTU	30.7 mV	49.10 ft	120.00 ml/min
3/9/2021 1:37 PM	10:00	7.26 pH	18.19 °C	598.39 µS/cm	1.13 mg/L	8.53 NTU	37.9 mV	49.10 ft	120.00 ml/min
3/9/2021 1:42 PM	15:00	7.25 pH	18.00 °C	596.79 µS/cm	0.83 mg/L	14.1 NTU	42.3 mV	49.10 ft	120.00 ml/min
3/9/2021 1:47 PM	20:00	7.25 pH	17.94 °C	592.40 µS/cm	0.69 mg/L	24.3 NTU	0.2 mV	49.10 ft	120.00 ml/min
3/9/2021 1:52 PM	25:00	7.21 pH	17.76 °C	582.45 µS/cm	0.59 mg/L	39.2 NTU	-62.0 mV	49.10 ft	120.00 ml/min
3/9/2021 1:57 PM	30:00	7.13 pH	17.79 °C	557.32 µS/cm	0.52 mg/L	37.7 NTU	-87.1 mV	49.10 ft	120.00 ml/min
3/9/2021 2:02 PM	35:00	7.13 pH	17.70 °C	552.09 µS/cm	0.49 mg/L	30.4 NTU	-94.3 mV	49.10 ft	120.00 ml/min
3/9/2021 2:07 PM	40:00	7.08 pH	17.59 °C	537.59 µS/cm	0.44 mg/L	19.0 NTU	-94.1 mV	49.10 ft	120.00 ml/min
3/9/2021 2:12 PM	45:00	7.05 pH	17.77 °C	529.18 µS/cm	0.40 mg/L	22.9 NTU	-94.3 mV	49.10 ft	120.00 ml/min
3/9/2021 2:17 PM	50:00	7.01 pH	17.62 °C	518.24 µS/cm	0.38 mg/L	20.5 NTU	-93.7 mV	49.10 ft	120.00 ml/min
3/9/2021 2:22 PM	55:00	6.95 pH	17.72 °C	501.66 µS/cm	0.35 mg/L	18.9 NTU	-92.4 mV	49.10 ft	120.00 ml/min
3/9/2021 2:27 PM	01:00:00	6.94 pH	17.69 °C	489.15 µS/cm	0.33 mg/L	15.2 NTU	-94.3 mV	49.10 ft	120.00 ml/min
3/9/2021 2:32 PM	01:05:00	6.90 pH	17.69 °C	473.72 µS/cm	0.31 mg/L	11.8 NTU	-95.1 mV	49.10 ft	120.00 ml/min
3/9/2021 2:37 PM	01:10:00	6.88 pH	17.72 °C	490.51 µS/cm	0.29 mg/L	9.45 NTU	-96.8 mV	49.10 ft	120.00 ml/min

3/9/2021 2:42 PM	01:15:00	6.85 pH	17.64 °C	483.51 µS/cm	0.27 mg/L	7.63 NTU	-98.1 mV	49.10 ft	120.00 ml/min
3/9/2021 2:47 PM	01:20:00	6.85 pH	17.67 °C	479.14 µS/cm	0.25 mg/L	3.97 NTU	-99.8 mV	49.10 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/9/2021 9:57:23 AM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Ryan Walker

Location Name: PZ-23S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61 ft Total Depth: 71.73 ft Initial Depth to Water: 48.98 ft	Pump Type: Bladder pump Tubing Type: Poly Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 17400 ml Flow Cell Volume: 130 ml Final Flow Rate: 120 ml/min Final Draw Down: 11.92 ft	Instrument Used: Aqua TROLL 500 Serial Number: 602547
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Test Notes:

Collected at 12:30. Sunny, 60 s. FB-1 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
3/9/2021 9:57 AM	00:00	7.20 pH	17.00 °C	912.26 µS/cm	0.62 mg/L	7.65 NTU	17.1 mV	48.98 ft	120.00 ml/min
3/9/2021 10:02 AM	05:00	7.25 pH	17.19 °C	885.82 µS/cm	0.37 mg/L	10.7 NTU	-43.8 mV	50.80 ft	120.00 ml/min
3/9/2021 10:07 AM	10:00	7.24 pH	17.40 °C	856.60 µS/cm	0.35 mg/L	17.5 NTU	-65.4 mV	51.40 ft	120.00 ml/min
3/9/2021 10:12 AM	15:00	7.24 pH	17.30 °C	841.68 µS/cm	0.38 mg/L	43.8 NTU	-66.2 mV	52.30 ft	120.00 ml/min
3/9/2021 10:17 AM	20:00	7.23 pH	17.24 °C	816.74 µS/cm	0.38 mg/L	68.8 NTU	-60.3 mV	52.70 ft	120.00 ml/min
3/9/2021 10:22 AM	25:00	7.25 pH	17.30 °C	808.64 µS/cm	0.39 mg/L	69.8 NTU	-55.4 mV	53.50 ft	120.00 ml/min
3/9/2021 10:27 AM	30:00	7.25 pH	17.16 °C	804.89 µS/cm	0.40 mg/L	95.7 NTU	-44.6 mV	54.00 ft	120.00 ml/min
3/9/2021 10:32 AM	35:00	7.27 pH	17.20 °C	801.99 µS/cm	0.39 mg/L	109 NTU	-36.3 mV	54.90 ft	120.00 ml/min
3/9/2021 10:37 AM	40:00	7.27 pH	17.19 °C	799.69 µS/cm	0.39 mg/L	133 NTU	-40.3 mV	55.30 ft	120.00 ml/min
3/9/2021 10:42 AM	45:00	7.24 pH	17.21 °C	795.68 µS/cm	0.38 mg/L	94.7 NTU	-36.9 mV	55.70 ft	120.00 ml/min
3/9/2021 10:47 AM	50:00	7.28 pH	17.12 °C	789.04 µS/cm	0.38 mg/L	84.7 NTU	-39.1 mV	56.30 ft	120.00 ml/min
3/9/2021 10:52 AM	55:00	7.27 pH	17.13 °C	785.42 µS/cm	0.39 mg/L	79.7 NTU	-42.3 mV	56.70 ft	120.00 ml/min
3/9/2021 10:57 AM	01:00:00	7.28 pH	17.11 °C	779.44 µS/cm	0.37 mg/L	68.3 NTU	-47.0 mV	57.00 ft	120.00 ml/min
3/9/2021 11:02 AM	01:05:00	7.28 pH	17.29 °C	773.46 µS/cm	0.37 mg/L	49.2 NTU	-51.4 mV	57.30 ft	120.00 ml/min
3/9/2021 11:07 AM	01:10:00	7.27 pH	17.20 °C	764.06 µS/cm	0.37 mg/L	29.8 NTU	-55.4 mV	57.90 ft	120.00 ml/min

3/9/2021 11:12 AM	01:15:00	7.29 pH	17.20 °C	763.36 µS/cm	0.41 mg/L	11.1 NTU	-64.0 mV	58.30 ft	120.00 ml/min
3/9/2021 11:17 AM	01:20:00	7.28 pH	17.19 °C	758.16 µS/cm	0.46 mg/L	7.63 NTU	-68.8 mV	58.70 ft	120.00 ml/min
3/9/2021 11:22 AM	01:25:00	7.30 pH	17.25 °C	747.28 µS/cm	0.50 mg/L	4.78 NTU	-74.2 mV	59.20 ft	120.00 ml/min
3/9/2021 11:27 AM	01:30:00	7.29 pH	17.30 °C	740.23 µS/cm	0.60 mg/L	5.08 NTU	-77.4 mV	59.60 ft	100.00 ml/min
3/9/2021 11:32 AM	01:35:00	7.31 pH	17.51 °C	736.09 µS/cm	0.69 mg/L	4.00 NTU	-78.2 mV	60.10 ft	100.00 ml/min
3/9/2021 11:37 AM	01:40:00	7.30 pH	17.63 °C	731.13 µS/cm	0.85 mg/L	3.51 NTU	-76.9 mV	60.30 ft	100.00 ml/min
3/9/2021 11:42 AM	01:45:00	7.30 pH	17.54 °C	723.45 µS/cm	1.07 mg/L	2.50 NTU	-72.6 mV	60.50 ft	100.00 ml/min
3/9/2021 11:47 AM	01:50:00	7.32 pH	17.51 °C	722.76 µS/cm	1.24 mg/L	3.17 NTU	-69.4 mV	60.70 ft	100.00 ml/min
3/9/2021 11:52 AM	01:55:00	7.32 pH	17.35 °C	722.23 µS/cm	1.37 mg/L	3.91 NTU	-65.8 mV	60.90 ft	100.00 ml/min
3/9/2021 11:57 AM	02:00:00	7.33 pH	17.49 °C	726.50 µS/cm	1.48 mg/L	3.84 NTU	-63.5 mV	60.90 ft	120.00 ml/min
3/9/2021 12:02 PM	02:05:00	7.33 pH	17.46 °C	730.73 µS/cm	1.60 mg/L	2.03 NTU	-61.0 mV	60.90 ft	120.00 ml/min
3/9/2021 12:07 PM	02:10:00	7.33 pH	17.55 °C	826.52 µS/cm	1.74 mg/L	2.19 NTU	-51.0 mV	60.90 ft	120.00 ml/min
3/9/2021 12:12 PM	02:15:00	7.34 pH	17.58 °C	890.99 µS/cm	1.49 mg/L	1.80 NTU	-46.2 mV	60.90 ft	120.00 ml/min
3/9/2021 12:17 PM	02:20:00	7.34 pH	17.54 °C	919.67 µS/cm	1.34 mg/L	0.84 NTU	-44.5 mV	60.90 ft	120.00 ml/min
3/9/2021 12:22 PM	02:25:00	7.33 pH	17.67 °C	918.62 µS/cm	1.19 mg/L	1.08 NTU	-46.9 mV	60.90 ft	120.00 ml/min
3/9/2021 12:27 PM	02:30:00	7.29 pH	17.78 °C	900.90 µS/cm	1.07 mg/L	1.08 NTU	-46.9 mV	60.90 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/9/2021 10:22:49 AM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Hunter Auld

Location Name: PZ-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.8 ft Total Depth: 43.88 ft Initial Depth to Water: 16.01 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 6.3 liter Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 44.28 in	Instrument Used: Aqua TROLL 500 Serial Number: 608421
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Test Notes:

Sampled at 1050, sunny 60s, EB-1 here at 1100 - tubing.

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	
3/9/2021 10:22 AM	00:00	5.71 pH	16.77 °C	262.05 µS/cm	3.39 mg/L	3.22 NTU	207.6 mV	16.01 ft	120.00 ml/min
3/9/2021 10:27 AM	05:00	5.64 pH	16.66 °C	227.01 µS/cm	2.62 mg/L	0.11 NTU	201.5 mV	19.50 ft	120.00 ml/min
3/9/2021 10:32 AM	10:00	5.64 pH	16.85 °C	227.12 µS/cm	2.34 mg/L	1.21 NTU	198.5 mV	19.60 ft	100.00 ml/min
3/9/2021 10:37 AM	15:00	5.54 pH	16.88 °C	237.22 µS/cm	1.29 mg/L	0.67 NTU	196.4 mV	19.70 ft	100.00 ml/min
3/9/2021 10:42 AM	20:00	5.55 pH	17.25 °C	235.38 µS/cm	1.27 mg/L	0.18 NTU	195.8 mV	19.70 ft	100.00 ml/min
3/9/2021 10:47 AM	25:00	5.56 pH	17.12 °C	234.53 µS/cm	1.34 mg/L	0.83 NTU	194.5 mV	19.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/9/2021 3:58:15 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Ryan Walker

Location Name: PZ-25S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43 ft Total Depth: 53.86 ft Initial Depth to Water: 28.84 ft	Pump Type: Bladder pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 5470.833 ml Flow Cell Volume: 130 ml Final Flow Rate: 130 ml/min Final Draw Down: 0.56 ft	Instrument Used: Aqua TROLL 500 Serial Number: 602547
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Test Notes:

Collected at 16:42. Sunny, 60 s. EB-2 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.3	+/- 10	+/- 10	+/- 0.3	
3/9/2021 3:58 PM	00:00		18.61 °C	97.59 µS/cm	4.84 mg/L	7.19 NTU		28.84 ft	130.00 ml/min
3/9/2021 4:15 PM	17:05	4.29 pH	18.13 °C	94.72 µS/cm	7.27 mg/L	7.55 NTU	129.7 mV	29.00 ft	130.00 ml/min
3/9/2021 4:20 PM	22:05	5.84 pH	17.93 °C	92.84 µS/cm	4.30 mg/L	9.88 NTU	151.5 mV	29.00 ft	130.00 ml/min
3/9/2021 4:25 PM	27:05	5.83 pH	17.93 °C	91.94 µS/cm	4.19 mg/L	4.49 NTU	160.5 mV	29.30 ft	130.00 ml/min
3/9/2021 4:30 PM	32:05	5.79 pH	17.81 °C	93.78 µS/cm	4.14 mg/L	3.94 NTU	168.6 mV	29.40 ft	130.00 ml/min
3/9/2021 4:35 PM	37:05	5.83 pH	17.72 °C	95.00 µS/cm	4.11 mg/L	3.22 NTU	171.7 mV	29.40 ft	130.00 ml/min
3/9/2021 4:40 PM	42:05	5.81 pH	17.57 °C	95.44 µS/cm	4.08 mg/L	2.96 NTU	176.6 mV	29.40 ft	130.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/9/2021 1:13:14 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: T. Goble

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: 14.05 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 75 ft Estimated Total Volume Pumped: 4750 ml Flow Cell Volume: 130 ml Final Flow Rate: 190 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 500 Serial Number: 601857
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Test Notes:

Sampled at 1338. Partly cloudy 69 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
3/9/2021 1:13 PM	00:00	6.26 pH	25.12 °C	0.05 µS/cm	8.13 mg/L	7.92 NTU	154.6 mV	14.05 ft	190.00 ml/min
3/9/2021 1:18 PM	05:00	6.17 pH	19.33 °C	250.82 µS/cm	0.60 mg/L	2.26 NTU	132.6 mV	14.05 ft	190.00 ml/min
3/9/2021 1:23 PM	10:00	6.14 pH	19.38 °C	249.71 µS/cm	0.33 mg/L	2.00 NTU	127.4 mV	14.05 ft	190.00 ml/min
3/9/2021 1:28 PM	15:00	6.15 pH	19.14 °C	248.41 µS/cm	0.25 mg/L	1.76 NTU	122.4 mV	14.05 ft	190.00 ml/min
3/9/2021 1:33 PM	20:00	6.18 pH	19.16 °C	248.32 µS/cm	0.24 mg/L	1.65 NTU	116.8 mV	14.05 ft	190.00 ml/min
3/9/2021 1:38 PM	25:00	6.19 pH	19.12 °C	247.76 µS/cm	0.21 mg/L	1.92 NTU	114.3 mV	14.05 ft	190.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/9/2021 2:04:42 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: T. Goble

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: 12.41 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 36 ft Estimated Total Volume Pumped: 6025 ml Flow Cell Volume: 130 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.33 ft	Instrument Used: Aqua TROLL 500 Serial Number: 601857
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Test Notes:

Sampled at 1434. Sunny 69 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
3/9/2021 2:04 PM	00:00	4.33 pH	19.03 °C	602.47 µS/cm	1.44 mg/L	4.59 NTU	198.9 mV	12.41 ft	150.00 ml/min
3/9/2021 2:09 PM	05:00	4.23 pH	18.67 °C	611.06 µS/cm	0.79 mg/L	4.04 NTU	251.1 mV	12.70 ft	175.00 ml/min
3/9/2021 2:14 PM	10:00	4.24 pH	18.61 °C	611.95 µS/cm	0.67 mg/L	3.15 NTU	274.3 mV	12.74 ft	220.00 ml/min
3/9/2021 2:19 PM	15:00	4.27 pH	19.01 °C	614.72 µS/cm	0.62 mg/L	3.26 NTU	287.6 mV	12.74 ft	220.00 ml/min
3/9/2021 2:24 PM	20:00	4.29 pH	19.45 °C	617.77 µS/cm	0.55 mg/L	3.71 NTU	297.6 mV	12.74 ft	220.00 ml/min
3/9/2021 2:29 PM	25:00	4.29 pH	19.37 °C	623.09 µS/cm	0.49 mg/L	3.31 NTU	307.3 mV	12.74 ft	220.00 ml/min
3/9/2021 2:34 PM	30:00	4.29 pH	19.53 °C	624.27 µS/cm	0.43 mg/L	4.25 NTU	316.7 mV	12.74 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/8/2021 12:36:35 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Hunter Auld

Location Name: PZ-27D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 71.7 ft Total Depth: 81.74 ft Initial Depth to Water: 19.93 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 76 ft Estimated Total Volume Pumped: 3.8 liter Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 3.2 in	Instrument Used: Aqua TROLL 500 Serial Number: 608421
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Test Notes:

Start Purge: 1235

Sampled at 1300. Sunny, 60s.

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	
3/8/2021 12:36 PM	00:00	7.37 pH	16.71 °C	1,164.8 µS/cm	0.61 mg/L	0.09 NTU	199.9 mV	19.93 ft	150.00 ml/min
3/8/2021 12:41 PM	05:00	7.42 pH	16.62 °C	1,161.3 µS/cm	0.44 mg/L	0.03 NTU	54.6 mV	20.20 ft	150.00 ml/min
3/8/2021 12:46 PM	10:00	7.43 pH	16.77 °C	1,161.0 µS/cm	0.29 mg/L	0.64 NTU	64.1 mV	20.20 ft	150.00 ml/min
3/8/2021 12:51 PM	15:00	7.44 pH	16.77 °C	1,160.8 µS/cm	0.24 mg/L	1.19 NTU	0.3 mV	20.20 ft	150.00 ml/min
3/8/2021 12:56 PM	20:00	7.44 pH	16.82 °C	1,159.9 µS/cm	0.20 mg/L	3.40 NTU	-30.7 mV	20.20 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/8/2021 1:17:03 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Hunter Auld

Location Name: PZ-27S Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.9 ft Total Depth: 39.93 ft Initial Depth to Water: 16.88 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 6.8 liter Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 3.8 in	Instrument Used: Aqua TROLL 500 Serial Number: 608421
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Test Notes:

Sampled at 1400, sunny 60s, Dup-1 here.

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	
3/8/2021 1:17 PM	00:00	5.38 pH	16.93 °C	297.83 µS/cm	1.12 mg/L	6.48 NTU	117.0 mV	16.88 ft	150.00 ml/min
3/8/2021 1:22 PM	05:00	5.35 pH	16.80 °C	294.07 µS/cm	0.54 mg/L	168 NTU	168.0 mV	17.20 ft	150.00 ml/min
3/8/2021 1:27 PM	10:00	5.34 pH	16.72 °C	292.11 µS/cm	0.40 mg/L	178 NTU	188.2 mV	17.20 ft	150.00 ml/min
3/8/2021 1:32 PM	15:00	5.35 pH	16.76 °C	289.70 µS/cm	0.36 mg/L	76.5 NTU	201.7 mV	17.20 ft	150.00 ml/min
3/8/2021 1:37 PM	20:00	5.35 pH	16.83 °C	288.30 µS/cm	0.34 mg/L	70.4 NTU	210.0 mV	17.20 ft	150.00 ml/min
3/8/2021 1:42 PM	25:00	5.35 pH	16.78 °C	289.04 µS/cm	0.33 mg/L	42.1 NTU	214.5 mV	17.20 ft	150.00 ml/min
3/8/2021 1:47 PM	30:00	5.35 pH	16.80 °C	287.93 µS/cm	0.33 mg/L	12.2 NTU	215.5 mV	17.20 ft	150.00 ml/min
3/8/2021 1:52 PM	35:00	5.35 pH	16.80 °C	287.74 µS/cm	0.37 mg/L	5.01 NTU	218.8 mV	17.20 ft	150.00 ml/min
3/8/2021 1:57 PM	40:00	5.36 pH	16.89 °C	286.79 µS/cm	0.41 mg/L	2.29 NTU	222.4 mV	17.20 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/9/2021 3:03:41 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: T. Goble

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	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 67 ft Estimated Total Volume Pumped: 3750 ml Flow Cell Volume: 130 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.85 ft	Instrument Used: Aqua TROLL 500 Serial Number: 601857
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Test Notes:

Sampled at 1533. Sunny 70 degrees

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
3/9/2021 3:03 PM	00:00	5.93 pH	23.39 °C	104.56 µS/cm	5.46 mg/L	0.34 NTU	243.8 mV	29.06 ft	150.00 ml/min
3/9/2021 3:08 PM	05:00	5.75 pH	19.68 °C	64.80 µS/cm	4.41 mg/L	1.36 NTU	251.9 mV	29.72 ft	120.00 ml/min
3/9/2021 3:13 PM	10:00	5.68 pH	19.47 °C	64.28 µS/cm	4.62 mg/L	3.39 NTU	256.5 mV	29.76 ft	120.00 ml/min
3/9/2021 3:18 PM	15:00	5.68 pH	18.82 °C	63.58 µS/cm	4.63 mg/L	5.72 NTU	257.2 mV	29.80 ft	120.00 ml/min
3/9/2021 3:23 PM	20:00	5.67 pH	18.60 °C	56.80 µS/cm	4.63 mg/L	4.54 NTU	258.7 mV	29.84 ft	120.00 ml/min
3/9/2021 3:28 PM	25:00	5.65 pH	18.24 °C	56.39 µS/cm	4.67 mg/L	4.77 NTU	260.2 mV	29.87 ft	120.00 ml/min
3/9/2021 3:33 PM	30:00	5.65 pH	18.06 °C	55.47 µS/cm	4.66 mg/L	2.35 NTU	261.1 mV	29.91 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/11/2021 9:46:00 AM

Project: Plant Wansley - Ash Pond PZ

Operator Name: Hunter Auld

Location Name: PZ-29D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 119.5 ft Total Depth: 129.57 ft Initial Depth to Water: 21.08 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 124 ft Estimated Total Volume Pumped: 18.5 liter Flow Cell Volume: 130 ml Final Flow Rate: 100 ml/min Final Draw Down: 18.5 in	Instrument Used: Aqua TROLL 500 Serial Number: 608421
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Test Notes:

Purge start: 0920

Sampled at 1225, sunny, 60s.

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	
3/11/2021 9:46 AM	00:00	6.72 pH	16.47 °C	19.13 µS/cm	8.67 mg/L	3.61 NTU	227.1 mV	21.08 ft	100.00 ml/min
3/11/2021 9:51 AM	05:37	6.41 pH	17.61 °C	411.31 µS/cm	1.01 mg/L	18.2 NTU	-4.0 mV	22.90 ft	100.00 ml/min
3/11/2021 9:56 AM	10:37	6.44 pH	17.54 °C	410.35 µS/cm	0.87 mg/L	20.2 NTU	-25.9 mV	23.00 ft	100.00 ml/min
3/11/2021 10:01 AM	15:37	6.45 pH	17.48 °C	404.87 µS/cm	0.80 mg/L	21.7 NTU	-32.0 mV	23.10 ft	100.00 ml/min
3/11/2021 10:06 AM	20:37	6.45 pH	17.55 °C	400.00 µS/cm	0.74 mg/L	19.8 NTU	-32.7 mV	23.20 ft	100.00 ml/min
3/11/2021 10:11 AM	25:37	6.44 pH	17.95 °C	400.88 µS/cm	0.73 mg/L	20.6 NTU	-33.4 mV	23.30 ft	100.00 ml/min
3/11/2021 10:16 AM	30:37	6.44 pH	18.35 °C	405.13 µS/cm	0.69 mg/L	17.5 NTU	-32.5 mV	23.40 ft	100.00 ml/min
3/11/2021 10:21 AM	35:37	6.44 pH	18.05 °C	399.91 µS/cm	0.68 mg/L	19.5 NTU	-31.6 mV	23.50 ft	100.00 ml/min
3/11/2021 10:26 AM	40:37	6.44 pH	18.06 °C	399.47 µS/cm	0.69 mg/L	20.1 NTU	-30.9 mV	23.60 ft	100.00 ml/min
3/11/2021 10:31 AM	45:37	6.44 pH	18.23 °C	398.94 µS/cm	0.70 mg/L	25.2 NTU	-30.9 mV	23.70 ft	100.00 ml/min
3/11/2021 10:36 AM	50:37	6.44 pH	18.31 °C	397.05 µS/cm	0.68 mg/L	17.4 NTU	-31.3 mV	23.80 ft	100.00 ml/min
3/11/2021 10:41 AM	55:37	6.44 pH	18.30 °C	400.10 µS/cm	0.68 mg/L	18.6 NTU	-31.4 mV	23.90 ft	100.00 ml/min
3/11/2021 10:46 AM	01:00:37	6.44 pH	18.18 °C	400.60 µS/cm	0.69 mg/L	23.8 NTU	-31.1 mV	24.00 ft	100.00 ml/min
3/11/2021 10:51 AM	01:05:37	6.44 pH	18.27 °C	401.60 µS/cm	0.69 mg/L	21.8 NTU	-31.3 mV	24.20 ft	100.00 ml/min
3/11/2021 10:56 AM	01:10:37	6.44 pH	18.54 °C	400.77 µS/cm	0.67 mg/L	25.4 NTU	-32.7 mV	24.20 ft	100.00 ml/min

3/11/2021 11:01 AM	01:15:37	6.44 pH	19.52 °C	399.26 µS/cm	0.73 mg/L	11.8 NTU	-33.6 mV	24.30 ft	100.00 ml/min
3/11/2021 11:06 AM	01:20:37	6.43 pH	18.63 °C	392.90 µS/cm	0.78 mg/L	10.8 NTU	-30.8 mV	24.30 ft	100.00 ml/min
3/11/2021 11:11 AM	01:25:37	6.44 pH	18.60 °C	398.71 µS/cm	0.67 mg/L	10.9 NTU	-32.6 mV	24.40 ft	100.00 ml/min
3/11/2021 11:16 AM	01:30:37	6.43 pH	18.67 °C	394.87 µS/cm	0.59 mg/L	11.1 NTU	-33.3 mV	24.40 ft	100.00 ml/min
3/11/2021 11:21 AM	01:35:37	6.43 pH	18.70 °C	395.61 µS/cm	0.58 mg/L	10.6 NTU	-34.6 mV	24.50 ft	100.00 ml/min
3/11/2021 11:26 AM	01:40:37	6.43 pH	19.37 °C	397.77 µS/cm	0.59 mg/L	10.6 NTU	-36.1 mV	24.60 ft	100.00 ml/min
3/11/2021 11:31 AM	01:45:37	6.43 pH	20.00 °C	399.57 µS/cm	0.58 mg/L	10.5 NTU	-37.6 mV	24.60 ft	100.00 ml/min
3/11/2021 11:36 AM	01:50:37	6.43 pH	19.98 °C	397.26 µS/cm	0.57 mg/L	9.80 NTU	-38.2 mV	24.60 ft	100.00 ml/min
3/11/2021 11:41 AM	01:55:37	6.42 pH	19.92 °C	396.25 µS/cm	0.55 mg/L	10.9 NTU	-38.2 mV	24.60 ft	100.00 ml/min
3/11/2021 11:46 AM	02:00:37	6.42 pH	19.99 °C	395.42 µS/cm	0.57 mg/L	15.1 NTU	-38.3 mV	24.70 ft	100.00 ml/min
3/11/2021 11:51 AM	02:05:37	6.41 pH	20.23 °C	396.47 µS/cm	0.55 mg/L	12.7 NTU	-38.2 mV	24.70 ft	100.00 ml/min
3/11/2021 11:56 AM	02:10:37	6.42 pH	20.11 °C	397.16 µS/cm	0.54 mg/L	11.9 NTU	-39.8 mV	24.80 ft	100.00 ml/min
3/11/2021 12:01 PM	02:15:37	6.42 pH	20.49 °C	395.49 µS/cm	0.54 mg/L	11.2 NTU	-40.7 mV	24.80 ft	100.00 ml/min
3/11/2021 12:06 PM	02:20:37	6.41 pH	20.47 °C	395.36 µS/cm	0.54 mg/L	10.8 NTU	-41.3 mV	24.90 ft	100.00 ml/min
3/11/2021 12:11 PM	02:25:37	6.41 pH	20.25 °C	391.87 µS/cm	0.52 mg/L	9.50 NTU	-41.4 mV	24.90 ft	100.00 ml/min
3/11/2021 12:16 PM	02:30:37	6.41 pH	20.48 °C	392.43 µS/cm	0.53 mg/L	9.40 NTU	-41.3 mV	24.90 ft	100.00 ml/min
3/11/2021 12:21 PM	02:35:37	6.41 pH	20.32 °C	394.00 µS/cm	0.53 mg/L	9.40 NTU	-42.2 mV	25.00 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Product Name: Low-Flow System

Date: 2021-04-08 10:58:44

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Wansley Ash Pond PZ
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 73 ft

Pump placement from TOC 68 ft

Well Information:

Well ID PZ-28
Well diameter 2 in
Well Total Depth 72.96 ft
Screen Length 10 ft
Depth to Water 29.03 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.4158299 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7 in
Total Volume Pumped 3.5 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			+/- 2	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 30
Last 5	10:37:45	600.02	18.08	6.20	71.27	2.39	29.66	4.19	103.38
Last 5	10:42:45	900.01	17.99	5.86	68.02	2.12	29.71	4.23	100.26
Last 5	10:47:45	1200.00	18.03	5.78	67.10	1.89	29.74	4.23	96.16
Last 5	10:52:45	1500.00	18.08	5.75	66.68	1.55	29.75	4.21	93.20
Last 5	10:57:47	1802.00	18.13	5.70	66.25	1.36	29.76	4.19	92.64
Variance 0			0.04	-0.08	-0.91			-0.00	-4.10
Variance 1			0.05	-0.03	-0.42			-0.03	-2.96
Variance 2			0.06	-0.06	-0.43			-0.02	-0.56

Notes

Sampled at 1057. Cloudy 65 degrees

Grab Samples

Low-Flow Test Report:

Test Date / Time: 4/8/2021 2:06:32 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: O. Fuquea

Location Name: PZ-27S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.9 ft Total Depth: 39.93 ft Initial Depth to Water: 16.9 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 3.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 4 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Collected at 1431. 73 F 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	
4/8/2021 2:06 PM	00:00	6.10 pH	21.02 °C	318.14 µS/cm	2.60 mg/L	5.56 NTU	89.7 mV	17.20 ft	150.00 ml/min
4/8/2021 2:11 PM	05:00	5.48 pH	18.22 °C	335.00 µS/cm	0.42 mg/L	7.61 NTU	89.6 mV	17.20 ft	150.00 ml/min
4/8/2021 2:16 PM	10:00	5.41 pH	18.04 °C	333.24 µS/cm	0.43 mg/L	6.32 NTU	89.7 mV	17.20 ft	150.00 ml/min
4/8/2021 2:21 PM	15:00	5.38 pH	17.72 °C	333.76 µS/cm	0.40 mg/L	5.47 NTU	90.6 mV	17.30 ft	150.00 ml/min
4/8/2021 2:26 PM	20:00	5.38 pH	17.76 °C	330.68 µS/cm	0.40 mg/L	4.79 NTU	91.2 mV	17.30 ft	150.00 ml/min
4/8/2021 2:31 PM	25:00	5.39 pH	18.02 °C	330.33 µS/cm	0.43 mg/L	3.32 NTU	91.5 mV	17.30 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 4/8/2021 12:41:09 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: O. Fuquea

Location Name: PZ-29D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 119.5 ft Total Depth: 129.57 ft Initial Depth to Water: 21.42 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 125 ft Estimated Total Volume Pumped: 53.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 28 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Collected at 1315. 70F overcast. Total purge time: 445 min.

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	
4/8/2021 12:41 PM	00:00	6.59 pH	21.27 °C	355.18 µS/cm	0.93 mg/L	7.60 NTU	50.2 mV	23.80 ft	150.00 ml/min
4/8/2021 12:46 PM	05:00	6.62 pH	20.22 °C	428.95 µS/cm	0.16 mg/L	6.19 NTU	5.3 mV	23.80 ft	150.00 ml/min
4/8/2021 12:51 PM	10:00	6.50 pH	19.81 °C	354.36 µS/cm	0.23 mg/L	7.06 NTU	9.5 mV	23.80 ft	150.00 ml/min
4/8/2021 12:56 PM	15:00	6.46 pH	19.56 °C	349.13 µS/cm	0.40 mg/L	5.96 NTU	16.6 mV	23.80 ft	150.00 ml/min
4/8/2021 1:01 PM	20:00	6.33 pH	19.82 °C	347.37 µS/cm	0.42 mg/L	6.32 NTU	19.3 mV	23.80 ft	150.00 ml/min
4/8/2021 1:06 PM	25:00	6.33 pH	19.83 °C	339.11 µS/cm	0.44 mg/L	6.66 NTU	19.9 mV	23.80 ft	150.00 ml/min
4/8/2021 1:11 PM	30:00	6.34 pH	20.15 °C	347.30 µS/cm	0.43 mg/L	6.20 NTU	17.1 mV	23.80 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 4/7/2021 3:04:17 PM

Project: Plant Wansley - Ash Pond PZ

Operator Name: O. Fuquea

Location Name: PZ-27D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 71.7 ft Total Depth: 81.74 ft Initial Depth to Water: 19.87 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 77 ft Estimated Total Volume Pumped: 3.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Collected at 1529. 80F 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	
4/7/2021 3:04 PM	00:00	7.38 pH	23.75 °C	844.32 µS/cm	2.72 mg/L	3.94 NTU	55.0 mV	19.90 ft	150.00 ml/min
4/7/2021 3:09 PM	05:00	7.22 pH	19.75 °C	974.11 µS/cm	0.25 mg/L	3.67 NTU	54.5 mV	20.00 ft	150.00 ml/min
4/7/2021 3:14 PM	10:00	7.18 pH	20.13 °C	976.18 µS/cm	0.13 mg/L	3.60 NTU	49.2 mV	20.10 ft	150.00 ml/min
4/7/2021 3:19 PM	15:00	7.17 pH	19.63 °C	986.06 µS/cm	0.10 mg/L	2.23 NTU	43.9 mV	20.10 ft	150.00 ml/min
4/7/2021 3:24 PM	20:00	7.17 pH	19.35 °C	983.62 µS/cm	0.10 mg/L	1.68 NTU	38.9 mV	20.20 ft	150.00 ml/min
4/7/2021 3:29 PM	25:00	7.17 pH	19.02 °C	996.27 µS/cm	0.08 mg/L	1.22 NTU	32.3 mV	20.20 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Product Name: Low-Flow System

Date: 2021-04-07 14:29:09

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Wansley Ash Pond PZ
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 41 ft

Pump placement from TOC 36 ft

Well Information:

Well ID PZ-26S
Well diameter 2 in
Well Total Depth 40.80 ft
Screen Length 10 ft
Depth to Water 12.25 ft

Pumping Information:

Final Pumping Rate 210 mL/min
Total System Volume 0.2730004 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 6.6 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			+/- 2	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 30
Last 5	14:08:17	600.02	19.63	4.46	630.12	1.15	12.44	3.85	76.63
Last 5	14:13:17	900.01	19.46	4.43	634.38	0.96	12.48	3.84	79.57
Last 5	14:18:17	1200.01	19.50	4.43	631.64	0.91	12.52	3.82	82.47
Last 5	14:23:17	1500.00	19.86	4.42	633.90	0.79	12.55	3.77	84.58
Last 5	14:28:17	1800.00	19.99	4.43	631.54	0.73	12.56	3.74	86.69
Variance 0			0.05	-0.00	-2.74			-0.02	2.91
Variance 1			0.35	-0.01	2.26			-0.05	2.11
Variance 2			0.13	0.01	-2.36			-0.03	2.11

Notes

Sampled at 1428. Sunny 79 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2021-04-07 15:39:47

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Wansley Ash Pond PZ
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 80 ft

Pump placement from TOC 75 ft

Well Information:

Well ID PZ-26D
Well diameter 2 in
Well Total Depth 80.11 ft
Screen Length 10 ft
Depth to Water 13.88 ft

Pumping Information:

Final Pumping Rate 170 mL/min
Total System Volume 0.4470738 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17 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			+/- 2	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 30
Last 5	15:17:14	1204.01	22.18	6.39	263.46	1.17	15.24	3.49	70.01
Last 5	15:22:14	1504.00	21.82	6.42	262.58	0.88	15.25	3.74	69.05
Last 5	15:27:14	1804.00	20.95	6.43	262.36	0.80	15.27	4.25	70.87
Last 5	15:32:17	2106.99	21.91	6.43	264.98	0.59	15.29	4.22	70.02
Last 5	15:37:17	2406.98	22.18	6.46	264.78	0.52	15.31	4.29	68.60
Variance 0			-0.87	0.00	-0.21			0.52	1.82
Variance 1			0.95	0.00	2.62			-0.03	-0.85
Variance 2			0.27	0.03	-0.20			0.07	-1.43

Notes

Sampled at 1537. Partly cloudy 79 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2021-04-07 11:21:19

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Wansley Ash Pond-PZ
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 54 ft

Pump placement from TOC 49 ft

Well Information:

Well ID PZ-25S
Well diameter 2 in
Well Total Depth 53.86 ft
Screen Length 10 ft
Depth to Water 28.61 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.3310249 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 2	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 50
Last 5	11:00:40	600.02	18.12	5.89	81.43	3.81	29.29	5.22	81.87
Last 5	11:05:40	900.01	17.86	5.61	81.27	3.36	29.32	5.23	80.34
Last 5	11:10:40	1200.00	17.80	5.64	80.81	2.88	29.33	5.21	76.81
Last 5	11:15:40	1500.00	17.72	5.63	80.29	2.45	29.33	5.15	76.36
Last 5	11:20:40	1799.99	17.81	5.57	80.33	2.27	29.33	5.16	78.78
Variance 0			-0.05	0.03	-0.45			-0.03	-3.53
Variance 1			-0.09	-0.01	-0.52			-0.06	-0.45
Variance 2			0.09	-0.06	0.04			0.02	2.42

Notes

Sampled at 1120. Sunny 70 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2021-04-08 12:31:34

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Wansley Ash Pond PZ
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 44 ft

Pump placement from TOC 39 ft

Well Information:

Well ID PZ-24
Well diameter 2 in
Well Total Depth 43.88 ft
Screen Length 10 ft
Depth to Water 15.67 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 0.2863906 L 300
Calculated Sample Rate sec
Stabilization Drawdown 35 in
Total Volume Pumped 3.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 2	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 30
Last 5	12:10:14	600.02	18.65	6.05	207.19	1.88	17.59	5.46	89.80
Last 5	12:15:14	900.01	18.30	6.09	207.93	1.61	17.96	5.48	86.81
Last 5	12:20:14	1200.01	18.23	6.05	208.22	1.32	18.30	5.45	88.18
Last 5	12:25:18	1503.94	18.21	6.05	208.13	1.17	18.42	5.47	87.31
Last 5	12:30:17	1802.99	18.47	6.01	207.76	1.05	18.55	5.38	88.59
Variance 0			-0.06	-0.04	0.29			-0.03	1.36
Variance 1			-0.02	0.00	-0.09			0.02	-0.87
Variance 2			0.26	-0.04	-0.37			-0.08	1.27

Notes

Sampled at 1230. Mostly cloudy 70 degrees

Grab Samples

Low-Flow Test Report:

Test Date / Time: 4/8/2021 10:45:13 AM

Project: Plant Wansley - Ash Pond PZ

Operator Name: O. Fuquea

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 in Initial Depth to Water: 48.65 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 10.5 liter 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:

Collected at 1155. 66F overcast. DUP-1 collected.

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	
4/8/2021 10:45 AM	00:00	7.84 pH	19.70 °C	568.66 µS/cm	1.84 mg/L	9.63 NTU	86.7 mV	48.65 ft	150.00 ml/min
4/8/2021 10:50 AM	05:00	7.35 pH	19.50 °C	647.41 µS/cm	1.22 mg/L	8.70 NTU	65.1 mV	48.80 ft	150.00 ml/min
4/8/2021 10:55 AM	10:00	7.13 pH	19.51 °C	651.72 µS/cm	0.96 mg/L	8.18 NTU	57.8 mV	48.80 ft	150.00 ml/min
4/8/2021 11:00 AM	15:00	7.06 pH	19.63 °C	639.55 µS/cm	0.81 mg/L	11.10 NTU	50.9 mV	48.80 ft	150.00 ml/min
4/8/2021 11:05 AM	20:00	7.04 pH	19.62 °C	640.79 µS/cm	0.73 mg/L	8.88 NTU	40.5 mV	48.80 ft	150.00 ml/min
4/8/2021 11:10 AM	25:00	7.02 pH	19.54 °C	636.92 µS/cm	0.65 mg/L	8.63 NTU	30.0 mV	48.80 ft	150.00 ml/min
4/8/2021 11:15 AM	30:00	7.01 pH	19.60 °C	629.42 µS/cm	0.60 mg/L	7.33 NTU	14.9 mV	48.80 ft	150.00 ml/min
4/8/2021 11:20 AM	35:00	6.99 pH	19.97 °C	625.82 µS/cm	0.52 mg/L	9.53 NTU	5.0 mV	48.80 ft	150.00 ml/min
4/8/2021 11:25 AM	40:00	6.97 pH	21.01 °C	625.24 µS/cm	0.44 mg/L	8.42 NTU	0.1 mV	48.80 ft	150.00 ml/min
4/8/2021 11:30 AM	45:00	6.97 pH	21.91 °C	618.19 µS/cm	0.41 mg/L	7.83 NTU	-13.5 mV	48.80 ft	150.00 ml/min
4/8/2021 11:35 AM	50:00	6.97 pH	22.05 °C	610.83 µS/cm	0.40 mg/L	8.48 NTU	-18.7 mV	48.80 ft	150.00 ml/min
4/8/2021 11:40 AM	55:00	6.96 pH	22.27 °C	604.32 µS/cm	0.38 mg/L	8.29 NTU	-21.5 mV	48.80 ft	150.00 ml/min
4/8/2021 11:45 AM	01:00:00	6.96 pH	22.54 °C	600.37 µS/cm	0.34 mg/L	6.72 NTU	-23.1 mV	48.80 ft	150.00 ml/min
4/8/2021 11:50 AM	01:05:00	6.94 pH	23.12 °C	596.77 µS/cm	0.28 mg/L	5.27 NTU	-23.4 mV	48.80 ft	150.00 ml/min
4/8/2021 11:55 AM	01:10:00	6.94 pH	23.04 °C	587.54 µS/cm	0.28 mg/L	4.94 NTU	-19.6 mV	48.80 ft	150.00 ml/min

Samples

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

Product Name: Low-Flow System

Date: 2021-04-07 12:55:08

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Wansley Ash Pond PZ
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 72 ft

Pump placement from TOC 67 ft

Well Information:

Well ID PZ-23S
Well diameter 2 in
Well Total Depth 71.73 ft
Screen Length 10 ft
Depth to Water 48.77 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 0.4113665 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 24 in
Total Volume Pumped 4.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 2	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 30
Last 5	12:34:02	1200.01	19.19	6.97	777.21	6.32	50.25	0.79	20.78
Last 5	12:39:02	1500.00	19.50	7.00	779.10	5.86	50.35	0.81	16.71
Last 5	12:44:02	1799.99	19.63	7.02	784.41	5.71	50.39	0.84	14.98
Last 5	12:49:02	2099.99	19.32	7.04	791.37	5.30	50.43	0.91	14.64
Last 5	12:54:04	2401.98	19.05	7.05	801.79	4.87	50.47	0.91	14.74
Variance 0			0.13	0.02	5.32			0.03	-1.73
Variance 1			-0.31	0.02	6.95			0.07	-0.34
Variance 2			-0.27	0.01	10.42			-0.00	0.10

Notes

Sampled at 1254. Sunny 76 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2021-04-08 14:01:26

Project Information:

Operator Name Taylor Goble
Company Name Atlantic Coast Consulting
Project Name Plant Wansley Ash Pond PZ
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 601533
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID PZ-22
Well diameter 2 in
Well Total Depth 42.85 ft
Screen Length 10 ft
Depth to Water 25.74 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.2819272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 2	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 30
Last 5	13:40:05	600.02	21.46	5.65	678.74	3.20	26.15	5.12	83.57
Last 5	13:45:05	900.01	21.64	5.63	670.20	2.55	26.24	4.99	83.18
Last 5	13:50:05	1200.01	20.97	5.61	678.93	2.03	26.28	5.06	83.85
Last 5	13:55:05	1500.00	20.56	5.61	675.21	1.81	26.30	5.06	84.04
Last 5	14:00:05	1800.00	20.79	5.60	675.55	1.60	26.32	5.04	83.83
Variance 0			-0.67	-0.02	8.73			0.07	0.67
Variance 1			-0.41	-0.00	-3.72			-0.00	0.18
Variance 2			0.22	-0.01	0.35			-0.02	-0.21

Notes

Sampled at 1400. Cloudy 72 degrees. FB-2 poured here

Grab Samples

Low-Flow Test Report:

Test Date / Time: 8/24/2021 10:20:10 AM

Project: Plant Wansley Ash Pond

Operator Name: J. Berisford

Location Name: WGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 119.86 ft Total Depth: 129.86 ft Initial Depth to Water: 29.46 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 124 ft Estimated Total Volume Pumped: 8.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, sample time 1145. EB-1 here with gloves at 1100

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	
8/24/2021 10:20 AM	00:00	7.34 pH	27.35 °C	119.31 µS/cm	7.55 mg/L	4.33 NTU	189.1 mV	29.46 ft	100.00 ml/min
8/24/2021 10:25 AM	05:00	5.91 pH	25.05 °C	34.77 µS/cm	6.96 mg/L	2.03 NTU	103.3 mV	29.60 ft	100.00 ml/min
8/24/2021 10:30 AM	10:00	5.76 pH	24.44 °C	34.75 µS/cm	3.30 mg/L	1.93 NTU	92.6 mV	29.60 ft	100.00 ml/min
8/24/2021 10:35 AM	15:00	5.72 pH	24.33 °C	32.81 µS/cm	1.45 mg/L	1.16 NTU	88.1 mV	29.60 ft	100.00 ml/min
8/24/2021 10:40 AM	20:00	5.61 pH	24.33 °C	32.71 µS/cm	0.70 mg/L	1.44 NTU	81.9 mV	29.60 ft	100.00 ml/min
8/24/2021 10:45 AM	25:00	5.49 pH	24.45 °C	33.17 µS/cm	0.50 mg/L	1.79 NTU	82.3 mV	29.60 ft	100.00 ml/min
8/24/2021 10:50 AM	30:00	5.41 pH	24.69 °C	33.97 µS/cm	0.48 mg/L	1.33 NTU	76.8 mV	29.60 ft	100.00 ml/min
8/24/2021 10:55 AM	35:00	5.38 pH	25.22 °C	34.96 µS/cm	0.55 mg/L	1.24 NTU	85.8 mV	29.60 ft	100.00 ml/min
8/24/2021 11:00 AM	40:00	5.34 pH	25.42 °C	34.16 µS/cm	0.59 mg/L	1.13 NTU	72.9 mV	29.60 ft	100.00 ml/min
8/24/2021 11:05 AM	45:00	5.31 pH	25.59 °C	34.45 µS/cm	0.69 mg/L	0.77 NTU	66.5 mV	29.60 ft	100.00 ml/min
8/24/2021 11:10 AM	50:00	5.29 pH	25.69 °C	34.41 µS/cm	0.80 mg/L	0.72 NTU	64.7 mV	29.60 ft	100.00 ml/min
8/24/2021 11:15 AM	55:00	5.26 pH	25.64 °C	33.85 µS/cm	0.95 mg/L	0.92 NTU	65.9 mV	29.60 ft	100.00 ml/min
8/24/2021 11:20 AM	01:00:00	5.24 pH	25.60 °C	34.16 µS/cm	1.06 mg/L	0.83 NTU	65.6 mV	29.60 ft	100.00 ml/min
8/24/2021 11:25 AM	01:05:00	5.23 pH	25.66 °C	34.00 µS/cm	1.17 mg/L	0.57 NTU	66.0 mV	29.60 ft	100.00 ml/min
8/24/2021 11:30 AM	01:10:00	5.22 pH	25.50 °C	34.11 µS/cm	1.28 mg/L	0.62 NTU	67.0 mV	29.60 ft	100.00 ml/min

8/24/2021 11:35 AM	01:15:00	5.21 pH	25.60 °C	34.26 µS/cm	1.37 mg/L	0.75 NTU	67.8 mV	29.60 ft	100.00 ml/min
8/24/2021 11:40 AM	01:20:00	5.21 pH	25.59 °C	34.24 µS/cm	1.45 mg/L	0.62 NTU	67.6 mV	29.60 ft	100.00 ml/min
8/24/2021 11:45 AM	01:25:00	5.21 pH	25.59 °C	34.43 µS/cm	1.50 mg/L	0.58 NTU	68.0 mV	29.60 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/23/2021 3:00:08 PM

Project: Plant Wansley AP

Operator Name: J. Berisford

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: 11.5 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 97 ft Estimated Total Volume Pumped: 4.37 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, sample time 1535

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	
8/23/2021 3:00 PM	00:00	6.23 pH	20.28 °C	122.76 µS/cm	2.24 mg/L	2.50 NTU	27.0 mV	11.50 ft	125.00 ml/min
8/23/2021 3:05 PM	05:00	6.20 pH	20.14 °C	122.31 µS/cm	1.56 mg/L	1.73 NTU	43.5 mV	12.00 ft	125.00 ml/min
8/23/2021 3:10 PM	10:00	6.19 pH	20.03 °C	122.66 µS/cm	1.12 mg/L	1.00 NTU	44.1 mV	12.00 ft	125.00 ml/min
8/23/2021 3:15 PM	15:00	6.19 pH	19.94 °C	123.83 µS/cm	0.91 mg/L	0.98 NTU	55.2 mV	12.00 ft	125.00 ml/min
8/23/2021 3:20 PM	20:00	6.19 pH	19.96 °C	124.18 µS/cm	0.73 mg/L	1.05 NTU	43.3 mV	12.00 ft	125.00 ml/min
8/23/2021 3:25 PM	25:00	6.19 pH	19.91 °C	125.28 µS/cm	0.64 mg/L	0.32 NTU	53.5 mV	12.00 ft	125.00 ml/min
8/23/2021 3:30 PM	30:00	6.19 pH	19.79 °C	124.52 µS/cm	0.54 mg/L	0.41 NTU	43.0 mV	12.00 ft	125.00 ml/min
8/23/2021 3:35 PM	35:00	6.18 pH	19.77 °C	125.10 µS/cm	0.49 mg/L	0.29 NTU	42.9 mV	12.00 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/25/2021 10:20:12 AM

Project: Plant Wansley AP

Operator Name: J. Berisford

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: 3.6 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: 1.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, sample time 1050

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	
8/25/2021 10:20 AM	00:00	5.38 pH	24.05 °C	30.65 µS/cm	5.18 mg/L	0.99 NTU	128.0 mV	3.60 ft	300.00 ml/min
8/25/2021 10:25 AM	05:00	5.50 pH	20.41 °C	30.01 µS/cm	5.66 mg/L	0.59 NTU	92.6 mV	3.70 ft	300.00 ml/min
8/25/2021 10:30 AM	10:00	5.51 pH	20.14 °C	29.79 µS/cm	5.65 mg/L	0.41 NTU	86.6 mV	3.70 ft	300.00 ml/min
8/25/2021 10:35 AM	15:00	5.52 pH	20.21 °C	29.74 µS/cm	5.65 mg/L	0.74 NTU	84.2 mV	3.70 ft	300.00 ml/min
8/25/2021 10:40 AM	20:00	5.52 pH	20.23 °C	29.56 µS/cm	5.63 mg/L	0.42 NTU	83.4 mV	3.70 ft	300.00 ml/min
8/25/2021 10:45 AM	25:00	5.52 pH	20.35 °C	29.57 µS/cm	5.64 mg/L	0.54 NTU	82.8 mV	3.70 ft	300.00 ml/min
8/25/2021 10:50 AM	30:00	5.52 pH	20.37 °C	29.55 µS/cm	5.64 mg/L	0.42 NTU	82.6 mV	3.70 ft	300.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/24/2021 1:35:15 PM

Project: Plant Wansley AP

Operator Name: J. Berisford

Location Name: WGWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 54 ft Total Depth: 73.9 ft Initial Depth to Water: 6.05 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 68 ft Estimated Total Volume Pumped: 5.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, sample time 1410

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	
8/24/2021 1:35 PM	00:00	6.23 pH	24.33 °C	0.00 µS/cm	7.97 mg/L	8.79 NTU	28.9 mV	6.05 ft	150.00 ml/min
8/24/2021 1:40 PM	05:00	6.66 pH	27.08 °C	121.31 µS/cm	2.31 mg/L	4.59 NTU	-22.0 mV	6.30 ft	150.00 ml/min
8/24/2021 1:45 PM	10:00	6.99 pH	21.01 °C	120.55 µS/cm	0.65 mg/L	2.23 NTU	-41.1 mV	6.50 ft	150.00 ml/min
8/24/2021 1:50 PM	15:00	7.06 pH	20.88 °C	122.41 µS/cm	1.05 mg/L	2.84 NTU	-44.2 mV	6.60 ft	150.00 ml/min
8/24/2021 1:55 PM	20:00	7.15 pH	21.56 °C	121.69 µS/cm	0.07 mg/L	2.07 NTU	-49.4 mV	6.60 ft	150.00 ml/min
8/24/2021 2:00 PM	25:00	7.21 pH	21.14 °C	120.95 µS/cm	0.07 mg/L	2.61 NTU	-45.7 mV	6.60 ft	150.00 ml/min
8/24/2021 2:05 PM	30:00	7.23 pH	20.91 °C	121.09 µS/cm	0.07 mg/L	2.02 NTU	-43.8 mV	6.60 ft	150.00 ml/min
8/24/2021 2:10 PM	35:00	7.22 pH	20.76 °C	120.40 µS/cm	0.09 mg/L	1.57 NTU	-41.6 mV	6.60 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/24/2021 10:20:08 AM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

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: 17.61 ft	Pump Type: Peristaltic pump Tubing Type: Poly Pump Intake From TOC: 20 ft Estimated Total Volume Pumped: 17.7 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 28.7 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1218 on 8-24-21. Sunny, 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
8/24/2021 10:20 AM	00:00	7.02 pH	28.82 °C	346.28 µS/cm	7.42 mg/L	20.00 NTU	102.4 mV	18.30 ft	250.00 ml/min
8/24/2021 10:22 AM	01:52	6.80 pH	24.53 °C	264.09 µS/cm	1.31 mg/L	17.00 NTU	-6.0 mV	18.40 ft	150.00 ml/min
8/24/2021 10:27 AM	06:52	6.67 pH	22.06 °C	229.67 µS/cm	0.38 mg/L	17.00 NTU	-7.5 mV	18.60 ft	150.00 ml/min
8/24/2021 10:32 AM	11:52	6.07 pH	22.04 °C	102.29 µS/cm	1.15 mg/L	16.00 NTU	40.8 mV	18.70 ft	150.00 ml/min
8/24/2021 10:37 AM	16:52	5.53 pH	21.75 °C	44.96 µS/cm	2.32 mg/L	13.00 NTU	104.2 mV	18.80 ft	150.00 ml/min
8/24/2021 10:42 AM	21:52	5.43 pH	21.29 °C	39.56 µS/cm	1.02 mg/L	14.00 NTU	129.9 mV	18.90 ft	150.00 ml/min
8/24/2021 10:47 AM	26:52	5.41 pH	21.41 °C	37.68 µS/cm	0.62 mg/L	13.00 NTU	134.1 mV	19.00 ft	150.00 ml/min
8/24/2021 10:52 AM	31:52	5.48 pH	21.06 °C	41.01 µS/cm	0.56 mg/L	12.00 NTU	129.4 mV	19.10 ft	150.00 ml/min
8/24/2021 10:57 AM	36:52	5.54 pH	21.42 °C	45.15 µS/cm	0.57 mg/L	11.90 NTU	123.4 mV	19.10 ft	150.00 ml/min
8/24/2021 11:02 AM	41:52	5.61 pH	21.90 °C	50.37 µS/cm	0.66 mg/L	10.10 NTU	117.4 mV	19.20 ft	150.00 ml/min
8/24/2021 11:07 AM	46:52	5.81 pH	22.15 °C	70.23 µS/cm	0.93 mg/L	9.60 NTU	129.6 mV	19.20 ft	150.00 ml/min
8/24/2021 11:12 AM	51:52	5.93 pH	22.56 °C	84.18 µS/cm	0.93 mg/L	8.20 NTU	120.1 mV	19.30 ft	150.00 ml/min
8/24/2021 11:17 AM	56:52	6.05 pH	23.02 °C	99.93 µS/cm	0.82 mg/L	8.80 NTU	108.1 mV	19.30 ft	150.00 ml/min
8/24/2021 11:22 AM	01:01:52	6.19 pH	23.59 °C	121.18 µS/cm	0.78 mg/L	8.50 NTU	70.4 mV	19.40 ft	150.00 ml/min
8/24/2021 11:27 AM	01:06:52	6.46 pH	23.78 °C	184.23 µS/cm	0.44 mg/L	7.90 NTU	24.3 mV	19.40 ft	150.00 ml/min

8/24/2021 11:32 AM	01:11:52	6.37 pH	24.01 °C	152.95 µS/cm	0.69 mg/L	8.60 NTU	45.5 mV	19.50 ft	150.00 ml/min
8/24/2021 11:37 AM	01:16:52	6.48 pH	23.77 °C	177.94 µS/cm	0.62 mg/L	7.00 NTU	55.5 mV	19.50 ft	150.00 ml/min
8/24/2021 11:42 AM	01:21:52	6.59 pH	23.49 °C	199.47 µS/cm	0.58 mg/L	5.99 NTU	47.4 mV	19.60 ft	150.00 ml/min
8/24/2021 11:47 AM	01:26:52	6.66 pH	23.84 °C	217.09 µS/cm	0.48 mg/L	5.60 NTU	50.9 mV	19.60 ft	150.00 ml/min
8/24/2021 11:52 AM	01:31:52	6.69 pH	23.85 °C	226.93 µS/cm	0.46 mg/L	7.80 NTU	34.6 mV	19.70 ft	150.00 ml/min
8/24/2021 11:57 AM	01:36:52	6.84 pH	23.32 °C	255.55 µS/cm	0.25 mg/L	7.80 NTU	-37.5 mV	19.70 ft	150.00 ml/min
8/24/2021 12:02 PM	01:41:52	6.81 pH	23.43 °C	247.83 µS/cm	0.21 mg/L	5.20 NTU	-20.7 mV	19.80 ft	150.00 ml/min
8/24/2021 12:05 PM	01:45:23	6.76 pH	23.97 °C	233.52 µS/cm	0.47 mg/L	5.20 NTU	-3.4 mV	19.80 ft	150.00 ml/min
8/24/2021 12:10 PM	01:50:23	6.79 pH	23.95 °C	238.18 µS/cm	0.45 mg/L	4.88 NTU	16.4 mV	19.90 ft	150.00 ml/min
8/24/2021 12:15 PM	01:55:23	6.80 pH	23.92 °C	242.39 µS/cm	0.47 mg/L	4.60 NTU	22.5 mV	20.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/24/2021 1:13:35 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

Location Name: WGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 30 ft Top of Screen: 74.5 ft Total Depth: 104.5 ft Initial Depth to Water: 17.73 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 99.5 ft Estimated Total Volume Pumped: 3.24 liter Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 3.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1340 on 8-24-21, Sunny 90s. FB-1 collected here at 1320.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
8/24/2021 1:13 PM	00:00	7.80 pH	36.68 °C	168.43 µS/cm	5.95 mg/L	2.80 NTU	64.9 mV	17.73 ft	120.00 ml/min
8/24/2021 1:18 PM	05:00	7.34 pH	22.62 °C	161.41 µS/cm	1.09 mg/L	2.30 NTU	-81.4 mV	17.80 ft	120.00 ml/min
8/24/2021 1:23 PM	10:00	7.76 pH	21.01 °C	170.44 µS/cm	1.19 mg/L	2.30 NTU	-67.4 mV	17.80 ft	120.00 ml/min
8/24/2021 1:28 PM	15:00	7.85 pH	21.06 °C	170.84 µS/cm	1.14 mg/L	2.10 NTU	-83.1 mV	17.90 ft	120.00 ml/min
8/24/2021 1:33 PM	20:00	7.87 pH	20.92 °C	170.63 µS/cm	1.16 mg/L	1.20 NTU	-85.9 mV	18.00 ft	120.00 ml/min
8/24/2021 1:38 PM	25:00	7.88 pH	21.19 °C	171.09 µS/cm	1.08 mg/L	0.96 NTU	-95.6 mV	18.00 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/24/2021 2:20:46 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

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: 28.04 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 34.6 ft Estimated Total Volume Pumped: 11.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 0.7 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1510 on 8-24-21, Sunny 90s. DUP-1 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
8/24/2021 2:20 PM	00:00	8.15 pH	29.30 °C	0.00 µS/cm	7.35 mg/L	3.00 NTU	40.1 mV	28.04 ft	220.00 ml/min
8/24/2021 2:25 PM	05:00	7.38 pH	22.26 °C	273.13 µS/cm	1.07 mg/L	1.95 NTU	-99.9 mV	28.10 ft	220.00 ml/min
8/24/2021 2:30 PM	10:00	7.37 pH	21.78 °C	269.28 µS/cm	0.37 mg/L	2.80 NTU	-117.3 mV	28.10 ft	220.00 ml/min
8/24/2021 2:35 PM	15:00	6.80 pH	20.84 °C	131.33 µS/cm	1.12 mg/L	1.20 NTU	3.2 mV	28.10 ft	220.00 ml/min
8/24/2021 2:40 PM	20:00	5.89 pH	20.43 °C	37.31 µS/cm	4.34 mg/L	1.01 NTU	110.5 mV	28.10 ft	220.00 ml/min
8/24/2021 2:45 PM	25:00	5.68 pH	20.11 °C	32.00 µS/cm	5.92 mg/L	0.82 NTU	129.7 mV	28.10 ft	220.00 ml/min
8/24/2021 2:50 PM	30:00	5.61 pH	20.16 °C	29.78 µS/cm	6.51 mg/L	0.70 NTU	137.2 mV	28.10 ft	220.00 ml/min
8/24/2021 2:55 PM	35:00	5.56 pH	20.34 °C	28.80 µS/cm	6.65 mg/L	0.80 NTU	139.7 mV	28.10 ft	220.00 ml/min
8/24/2021 3:00 PM	40:00	5.55 pH	20.25 °C	28.15 µS/cm	6.70 mg/L	0.70 NTU	138.1 mV	28.10 ft	220.00 ml/min
8/24/2021 3:05 PM	45:00	5.53 pH	20.44 °C	27.89 µS/cm	6.80 mg/L	0.70 NTU	136.6 mV	28.10 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/25/2021 10:26:15 AM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

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: 21.5 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34.6 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 27.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1125 on 8-25-21, Sunny 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
8/25/2021 10:26 AM	00:00	6.87 pH	21.96 °C	87.25 µS/cm	4.97 mg/L	1.30 NTU	117.8 mV	21.50 ft	150.00 ml/min
8/25/2021 10:31 AM	05:00	7.30 pH	19.34 °C	115.35 µS/cm	1.65 mg/L	2.30 NTU	-0.7 mV	22.60 ft	150.00 ml/min
8/25/2021 10:36 AM	10:00	7.31 pH	19.14 °C	117.93 µS/cm	1.46 mg/L	1.20 NTU	13.4 mV	23.00 ft	150.00 ml/min
8/25/2021 10:41 AM	15:00	7.28 pH	18.83 °C	120.18 µS/cm	1.34 mg/L	1.10 NTU	15.1 mV	23.20 ft	150.00 ml/min
8/25/2021 10:46 AM	20:00	7.23 pH	19.25 °C	122.77 µS/cm	1.14 mg/L	0.90 NTU	19.4 mV	23.30 ft	100.00 ml/min
8/25/2021 10:51 AM	25:00	7.15 pH	19.37 °C	123.63 µS/cm	0.95 mg/L	0.80 NTU	21.7 mV	23.30 ft	100.00 ml/min
8/25/2021 10:56 AM	30:00	7.07 pH	19.41 °C	124.10 µS/cm	0.84 mg/L	0.80 NTU	21.5 mV	23.30 ft	100.00 ml/min
8/25/2021 11:01 AM	35:00	6.98 pH	18.41 °C	123.97 µS/cm	0.73 mg/L	0.70 NTU	24.7 mV	23.50 ft	150.00 ml/min
8/25/2021 11:06 AM	40:00	6.88 pH	18.87 °C	124.26 µS/cm	0.61 mg/L	0.70 NTU	31.3 mV	23.60 ft	150.00 ml/min
8/25/2021 11:11 AM	45:00	6.83 pH	18.65 °C	122.70 µS/cm	0.48 mg/L	0.70 NTU	28.9 mV	23.70 ft	150.00 ml/min
8/25/2021 11:16 AM	50:00	6.77 pH	18.74 °C	121.76 µS/cm	0.51 mg/L	0.60 NTU	32.8 mV	23.80 ft	150.00 ml/min
8/25/2021 11:21 AM	55:00	6.74 pH	19.01 °C	120.73 µS/cm	0.62 mg/L	0.50 NTU	33.5 mV	23.80 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/26/2021 12:15:28 PM

Project: Plant Wansley - Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49 ft Total Depth: 59.63 ft Initial Depth to Water: 6.78 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 54 ft Estimated Total Volume Pumped: 2500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.72 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850762
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Test Notes:

Collected at 1241, sunny, 80s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
8/26/2021 12:15 PM	00:00	5.82 pH	26.88 °C	743.21 µS/cm	2.63 mg/L	3.25 NTU	115.1 mV	6.78 ft	100.00 ml/min
8/26/2021 12:20 PM	05:00	5.84 pH	24.40 °C	770.86 µS/cm	3.33 mg/L	3.29 NTU	-54.8 mV	7.20 ft	100.00 ml/min
8/26/2021 12:25 PM	10:00	5.51 pH	24.40 °C	769.79 µS/cm	3.10 mg/L	3.50 NTU	-24.3 mV	7.30 ft	100.00 ml/min
8/26/2021 12:30 PM	15:00	5.38 pH	24.18 °C	766.58 µS/cm	2.91 mg/L	2.08 NTU	0.4 mV	7.40 ft	100.00 ml/min
8/26/2021 12:35 PM	20:00	5.36 pH	23.97 °C	766.33 µS/cm	2.80 mg/L	2.77 NTU	18.6 mV	7.40 ft	100.00 ml/min
8/26/2021 12:40 PM	25:00	5.36 pH	24.04 °C	762.96 µS/cm	2.69 mg/L	1.53 NTU	39.1 mV	7.50 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/26/2021 12:10:03 PM

Project: Plant Wansley AP

Operator Name: J. Berisford

Location Name: WGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51 ft Total Depth: 61.42 ft Initial Depth to Water: 20.24 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 56 ft Estimated Total Volume Pumped: 6.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 42.7 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, sample time 1300

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	
8/26/2021 12:10 PM	00:00	7.41 pH	29.61 °C	0.34 µS/cm	6.91 mg/L	7.69 NTU	38.9 mV	20.24 ft	125.00 ml/min
8/26/2021 12:15 PM	05:00	5.90 pH	24.50 °C	148.58 µS/cm	1.62 mg/L	5.09 NTU	65.2 mV	20.90 ft	125.00 ml/min
8/26/2021 12:20 PM	10:00	5.88 pH	23.47 °C	151.81 µS/cm	1.28 mg/L	2.25 NTU	96.5 mV	21.90 ft	125.00 ml/min
8/26/2021 12:25 PM	15:00	5.88 pH	23.55 °C	151.05 µS/cm	1.21 mg/L	2.21 NTU	64.9 mV	22.50 ft	125.00 ml/min
8/26/2021 12:30 PM	20:00	5.88 pH	23.40 °C	149.98 µS/cm	1.18 mg/L	1.37 NTU	62.8 mV	22.90 ft	125.00 ml/min
8/26/2021 12:35 PM	25:00	5.86 pH	22.71 °C	149.06 µS/cm	1.17 mg/L	2.02 NTU	62.0 mV	23.10 ft	125.00 ml/min
8/26/2021 12:40 PM	30:00	5.87 pH	23.16 °C	149.24 µS/cm	1.16 mg/L	1.47 NTU	61.0 mV	23.40 ft	125.00 ml/min
8/26/2021 12:45 PM	35:00	5.86 pH	22.74 °C	149.45 µS/cm	1.89 mg/L	1.36 NTU	92.1 mV	23.70 ft	125.00 ml/min
8/26/2021 12:50 PM	40:00	5.86 pH	22.27 °C	149.22 µS/cm	2.25 mg/L	1.22 NTU	93.8 mV	23.80 ft	125.00 ml/min
8/26/2021 12:55 PM	45:00	5.85 pH	22.13 °C	148.28 µS/cm	2.24 mg/L	2.74 NTU	62.9 mV	23.80 ft	125.00 ml/min
8/26/2021 1:00 PM	50:00	5.84 pH	23.09 °C	149.19 µS/cm	2.26 mg/L	3.54 NTU	94.0 mV	23.80 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/26/2021 11:47:53 AM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

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 Initial Depth to Water: 16.43 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 143.9 ft Estimated Total Volume Pumped: 5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 11.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1235 on 8-26-21. Partly Sunny, 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
8/26/2021 11:47 AM	00:00	7.00 pH	27.10 °C	80.48 µS/cm	7.59 mg/L	1.60 NTU	121.4 mV	16.43 ft	100.00 ml/min
8/26/2021 11:52 AM	05:00	6.42 pH	24.46 °C	65.04 µS/cm	4.60 mg/L	3.60 NTU	112.0 mV	17.00 ft	100.00 ml/min
8/26/2021 11:57 AM	10:00	6.21 pH	22.75 °C	65.74 µS/cm	1.38 mg/L	4.40 NTU	109.1 mV	17.10 ft	100.00 ml/min
8/26/2021 12:02 PM	15:00	6.20 pH	22.22 °C	66.03 µS/cm	1.18 mg/L	5.40 NTU	135.1 mV	17.20 ft	100.00 ml/min
8/26/2021 12:07 PM	20:00	6.23 pH	21.96 °C	65.41 µS/cm	2.56 mg/L	4.20 NTU	108.1 mV	17.20 ft	100.00 ml/min
8/26/2021 12:12 PM	25:00	6.26 pH	21.95 °C	67.14 µS/cm	3.63 mg/L	3.80 NTU	106.5 mV	17.20 ft	100.00 ml/min
8/26/2021 12:17 PM	30:00	6.29 pH	21.92 °C	69.67 µS/cm	4.42 mg/L	4.70 NTU	105.9 mV	17.30 ft	100.00 ml/min
8/26/2021 12:22 PM	35:00	6.30 pH	21.80 °C	70.52 µS/cm	4.90 mg/L	4.50 NTU	105.5 mV	17.30 ft	100.00 ml/min
8/26/2021 12:27 PM	40:00	6.30 pH	21.85 °C	70.90 µS/cm	5.12 mg/L	4.40 NTU	105.3 mV	17.30 ft	100.00 ml/min
8/26/2021 12:32 PM	45:00	6.31 pH	22.12 °C	70.89 µS/cm	5.17 mg/L	4.50 NTU	105.6 mV	17.40 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/25/2021 11:30:48 AM

Project: Plant Wansley AP

Operator Name: J. Berisford

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: 23.92 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 44 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 32 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, sample time 1200

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	
8/25/2021 11:30 AM	00:00	6.15 pH	28.72 °C	0.00 µS/cm	7.60 mg/L	2.83 NTU	35.1 mV	23.92 ft	200.00 ml/min
8/25/2021 11:35 AM	05:00	5.66 pH	22.03 °C	29.53 µS/cm	8.04 mg/L	4.85 NTU	91.3 mV	25.70 ft	200.00 ml/min
8/25/2021 11:40 AM	10:00	5.68 pH	21.02 °C	29.12 µS/cm	7.87 mg/L	5.05 NTU	82.4 mV	26.40 ft	200.00 ml/min
8/25/2021 11:45 AM	15:00	5.72 pH	21.45 °C	29.38 µS/cm	7.65 mg/L	3.82 NTU	123.3 mV	26.60 ft	200.00 ml/min
8/25/2021 11:50 AM	20:00	5.70 pH	21.32 °C	29.66 µS/cm	7.56 mg/L	3.45 NTU	80.2 mV	26.60 ft	200.00 ml/min
8/25/2021 11:55 AM	25:00	5.68 pH	21.74 °C	29.91 µS/cm	7.50 mg/L	3.22 NTU	80.1 mV	26.60 ft	200.00 ml/min
8/25/2021 12:00 PM	30:00	5.66 pH	20.96 °C	30.12 µS/cm	7.50 mg/L	2.62 NTU	79.8 mV	26.60 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/25/2021 12:25:03 PM

Project: Plant Wansley AP

Operator Name: J. Berisford

Location Name: WGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.54 ft Total Depth: 76.54 ft Initial Depth to Water: 23.7 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 71 ft Estimated Total Volume Pumped: 13 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 7 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, sample time -1330, 2nd rad collected here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
8/25/2021 12:25 PM	00:00	5.90 pH	28.12 °C	0.00 µS/cm	7.64 mg/L	33.00 NTU	27.7 mV	23.70 ft	200.00 ml/min
8/25/2021 12:30 PM	05:00	6.55 pH	20.57 °C	97.44 µS/cm	2.72 mg/L	639.00 NTU	12.5 mV	24.20 ft	200.00 ml/min
8/25/2021 12:35 PM	10:00	6.55 pH	19.85 °C	99.89 µS/cm	1.65 mg/L	311.00 NTU	17.2 mV	24.30 ft	200.00 ml/min
8/25/2021 12:40 PM	15:00	6.58 pH	19.50 °C	106.26 µS/cm	0.20 mg/L	44.00 NTU	17.3 mV	24.30 ft	200.00 ml/min
8/25/2021 12:45 PM	20:00	6.62 pH	19.93 °C	109.41 µS/cm	0.18 mg/L	21.00 NTU	16.8 mV	24.30 ft	200.00 ml/min
8/25/2021 12:50 PM	25:00	6.64 pH	19.99 °C	111.79 µS/cm	0.18 mg/L	17.00 NTU	16.3 mV	24.30 ft	200.00 ml/min
8/25/2021 12:55 PM	30:00	6.66 pH	19.85 °C	111.85 µS/cm	0.18 mg/L	13.00 NTU	16.5 mV	24.30 ft	200.00 ml/min
8/25/2021 1:00 PM	35:00	6.64 pH	19.48 °C	112.47 µS/cm	0.19 mg/L	10.00 NTU	18.0 mV	24.30 ft	200.00 ml/min
8/25/2021 1:05 PM	40:00	6.67 pH	19.90 °C	112.35 µS/cm	0.20 mg/L	9.54 NTU	16.7 mV	24.30 ft	200.00 ml/min
8/25/2021 1:10 PM	45:00	6.68 pH	20.03 °C	112.28 µS/cm	0.21 mg/L	7.21 NTU	16.7 mV	24.30 ft	200.00 ml/min
8/25/2021 1:15 PM	50:00	6.67 pH	20.08 °C	112.58 µS/cm	0.22 mg/L	7.05 NTU	16.9 mV	24.30 ft	200.00 ml/min
8/25/2021 1:20 PM	55:00	6.68 pH	20.06 °C	111.52 µS/cm	0.23 mg/L	6.89 NTU	17.1 mV	24.30 ft	200.00 ml/min
8/25/2021 1:25 PM	01:00:00	6.67 pH	19.93 °C	110.82 µS/cm	0.24 mg/L	5.55 NTU	17.8 mV	24.30 ft	200.00 ml/min
8/25/2021 1:30 PM	01:05:00	6.69 pH	19.84 °C	110.70 µS/cm	0.25 mg/L	4.82 NTU	17.4 mV	24.30 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: 8/25/2021 12:15:11 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

Location Name: WGWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 20 ft Top of Screen: 75.55 ft Total Depth: 95.55 ft Initial Depth to Water: 22.65 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90.55 ft Estimated Total Volume Pumped: 4.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1245 on 8-25-21, Sunny 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
8/25/2021 12:15 PM	00:00	6.51 pH	25.55 °C	63.03 µS/cm	4.84 mg/L	8.40 NTU	112.8 mV	22.65 ft	120.00 ml/min
8/25/2021 12:20 PM	05:00	6.17 pH	23.35 °C	61.94 µS/cm	1.28 mg/L	8.70 NTU	100.8 mV	22.80 ft	120.00 ml/min
8/25/2021 12:25 PM	10:00	6.24 pH	22.80 °C	62.73 µS/cm	2.08 mg/L	4.70 NTU	94.6 mV	22.80 ft	120.00 ml/min
8/25/2021 12:30 PM	15:00	6.27 pH	22.27 °C	63.25 µS/cm	2.40 mg/L	3.70 NTU	105.1 mV	22.80 ft	120.00 ml/min
8/25/2021 12:35 PM	20:00	6.26 pH	22.22 °C	62.77 µS/cm	2.37 mg/L	3.60 NTU	107.4 mV	22.90 ft	120.00 ml/min
8/25/2021 12:40 PM	25:00	6.27 pH	22.04 °C	62.79 µS/cm	2.43 mg/L	3.60 NTU	107.5 mV	22.90 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/25/2021 1:03:27 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. 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: 22.64 ft	Pump Type: Peristaltic pump Tubing Type: Poly Pump Intake From TOC: 28.05 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3.1 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1330 on 8-25-21, Sunny 90s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
8/25/2021 1:03 PM	00:00	6.26 pH	30.55 °C	0.00 µS/cm	7.43 mg/L	15.00 NTU	63.8 mV	22.64 ft	150.00 ml/min
8/25/2021 1:08 PM	05:00	5.38 pH	23.88 °C	30.78 µS/cm	1.70 mg/L	11.10 NTU	175.6 mV	22.80 ft	150.00 ml/min
8/25/2021 1:13 PM	10:00	5.38 pH	23.51 °C	30.81 µS/cm	1.41 mg/L	8.40 NTU	173.1 mV	22.80 ft	150.00 ml/min
8/25/2021 1:18 PM	15:00	5.37 pH	23.59 °C	30.65 µS/cm	1.35 mg/L	5.80 NTU	172.0 mV	22.80 ft	150.00 ml/min
8/25/2021 1:23 PM	20:00	5.38 pH	23.09 °C	31.18 µS/cm	1.33 mg/L	4.70 NTU	170.6 mV	22.90 ft	150.00 ml/min
8/25/2021 1:28 PM	25:00	5.39 pH	22.80 °C	31.97 µS/cm	1.31 mg/L	4.50 NTU	168.7 mV	22.90 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/26/2021 3:31:39 PM

Project: Plant Wansley - Ash Pond

Operator Name: Toby Johnson

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: 20.06 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.44 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850762
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Test Notes:

Collected at 1614, extra rad here, sunny, 80s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
8/26/2021 3:31 PM	00:00	7.39 pH	30.01 °C	209.54 µS/cm	6.75 mg/L	1.75 NTU	88.1 mV	20.06 ft	100.00 ml/min
8/26/2021 3:36 PM	05:00	7.19 pH	24.90 °C	220.40 µS/cm	4.37 mg/L	12.80 NTU	53.4 mV	20.60 ft	100.00 ml/min
8/26/2021 3:41 PM	10:00	7.27 pH	24.67 °C	227.61 µS/cm	4.45 mg/L	3.40 NTU	-2.6 mV	20.80 ft	100.00 ml/min
8/26/2021 3:46 PM	15:00	7.38 pH	25.76 °C	232.06 µS/cm	3.90 mg/L	2.18 NTU	-26.5 mV	20.90 ft	100.00 ml/min
8/26/2021 3:51 PM	20:00	7.46 pH	26.29 °C	234.35 µS/cm	3.47 mg/L	1.18 NTU	-27.6 mV	21.10 ft	100.00 ml/min
8/26/2021 3:56 PM	25:00	7.53 pH	26.58 °C	233.92 µS/cm	3.28 mg/L	2.19 NTU	-24.7 mV	21.20 ft	100.00 ml/min
8/26/2021 4:01 PM	30:00	7.57 pH	26.67 °C	231.38 µS/cm	3.56 mg/L	0.76 NTU	-18.5 mV	21.30 ft	100.00 ml/min
8/26/2021 4:06 PM	35:00	7.58 pH	26.77 °C	228.89 µS/cm	3.74 mg/L	1.21 NTU	-8.7 mV	21.40 ft	100.00 ml/min
8/26/2021 4:11 PM	40:00	7.58 pH	26.62 °C	224.84 µS/cm	3.80 mg/L	0.78 NTU	0.6 mV	21.50 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/25/2021 2:20:03 PM

Project: Plant Wansley AP

Operator Name: J. Berisford

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: 19.46 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 3.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 4.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, sample time -1450, FB-2 here at 1435

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	
8/25/2021 2:20 PM	00:00	7.07 pH	26.70 °C	280.00 µS/cm	7.78 mg/L	4.44 NTU	31.7 mV	19.46 ft	125.00 ml/min
8/25/2021 2:25 PM	05:00	5.30 pH	20.79 °C	271.02 µS/cm	4.94 mg/L	2.41 NTU	91.9 mV	19.80 ft	125.00 ml/min
8/25/2021 2:30 PM	10:00	5.28 pH	19.59 °C	270.44 µS/cm	4.29 mg/L	2.02 NTU	89.3 mV	19.80 ft	125.00 ml/min
8/25/2021 2:35 PM	15:00	5.26 pH	19.42 °C	268.54 µS/cm	3.94 mg/L	1.98 NTU	87.5 mV	19.80 ft	125.00 ml/min
8/25/2021 2:40 PM	20:00	5.26 pH	19.37 °C	267.99 µS/cm	3.84 mg/L	1.84 NTU	132.5 mV	19.80 ft	125.00 ml/min
8/25/2021 2:45 PM	25:00	5.26 pH	19.26 °C	267.68 µS/cm	3.83 mg/L	1.50 NTU	86.1 mV	19.80 ft	125.00 ml/min
8/25/2021 2:50 PM	30:00	5.25 pH	19.26 °C	267.83 µS/cm	3.78 mg/L	1.05 NTU	129.4 mV	19.80 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/25/2021 2:23:57 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

Location Name: WGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 in Top of Screen: 85.9 ft Total Depth: 95.94 ft Initial Depth to Water: 29.85 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90.9 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1455 on 8-25-21. EB-2 here (tubing). Partly cloudy, 90s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
8/25/2021 2:23 PM	00:00	6.41 pH	27.95 °C	79.47 µS/cm	3.63 mg/L	4.00 NTU	63.6 mV	29.85 ft	200.00 ml/min
8/25/2021 2:28 PM	05:00	6.07 pH	19.91 °C	87.61 µS/cm	1.24 mg/L	15.00 NTU	58.8 mV	30.00 ft	200.00 ml/min
8/25/2021 2:33 PM	10:00	6.08 pH	19.90 °C	88.76 µS/cm	1.35 mg/L	9.00 NTU	58.1 mV	30.10 ft	200.00 ml/min
8/25/2021 2:38 PM	15:00	6.10 pH	21.47 °C	89.48 µS/cm	1.09 mg/L	7.10 NTU	58.1 mV	30.10 ft	200.00 ml/min
8/25/2021 2:43 PM	20:00	6.10 pH	21.37 °C	89.45 µS/cm	0.76 mg/L	5.30 NTU	60.4 mV	30.10 ft	200.00 ml/min
8/25/2021 2:48 PM	25:00	6.09 pH	21.24 °C	89.69 µS/cm	0.39 mg/L	3.10 NTU	57.4 mV	30.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/26/2021 10:35:17 AM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

Location Name: WGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 84.8 ft Total Depth: 94.84 ft Initial Depth to Water: 20.82 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 89.8 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 8.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1105 on 8-26-21. Dup-2 here. Cloudy 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 %	+/- 5	+/- 300	+/- 10	
8/26/2021 10:35 AM	00:00	6.95 pH	23.02 °C	185.46 µS/cm	3.10 mg/L	0.90 NTU	114.3 mV	20.82 ft	200.00 ml/min
8/26/2021 10:40 AM	05:00	6.71 pH	20.57 °C	175.88 µS/cm	0.46 mg/L	2.60 NTU	14.6 mV	21.40 ft	200.00 ml/min
8/26/2021 10:45 AM	10:00	6.67 pH	20.32 °C	152.49 µS/cm	0.29 mg/L	1.80 NTU	56.0 mV	21.40 ft	200.00 ml/min
8/26/2021 10:50 AM	15:00	6.66 pH	20.09 °C	145.65 µS/cm	0.23 mg/L	1.60 NTU	74.3 mV	21.40 ft	200.00 ml/min
8/26/2021 10:55 AM	20:00	6.66 pH	19.94 °C	144.73 µS/cm	0.20 mg/L	1.40 NTU	81.1 mV	21.50 ft	200.00 ml/min
8/26/2021 11:00 AM	25:00	6.66 pH	19.98 °C	145.11 µS/cm	0.18 mg/L	1.30 NTU	98.7 mV	21.50 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/26/2021 10:45:24 AM

Project: Plant Wansley - Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32 ft Total Depth: 42.85 ft Initial Depth to Water: 31.68 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 6777.5 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.21 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850762
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Test Notes:

Collected at 1132, sunny, 80s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
8/26/2021 10:45 AM	00:00	5.41 pH	22.63 °C	831.65 µS/cm	6.45 mg/L	2.16 NTU	157.9 mV	31.68 ft	150.00 ml/min
8/26/2021 10:50 AM	05:00	5.39 pH	22.86 °C	889.03 µS/cm	5.26 mg/L	1.72 NTU	131.9 mV	31.80 ft	150.00 ml/min
8/26/2021 10:55 AM	10:00	5.37 pH	23.50 °C	919.77 µS/cm	5.01 mg/L	0.71 NTU	143.5 mV	31.80 ft	150.00 ml/min
8/26/2021 11:00 AM	15:00	5.37 pH	23.72 °C	927.64 µS/cm	5.46 mg/L	0.69 NTU	115.2 mV	31.80 ft	150.00 ml/min
8/26/2021 11:01 AM	15:46	5.37 pH	23.68 °C	936.42 µS/cm	6.20 mg/L	0.69 NTU	107.3 mV	31.80 ft	150.00 ml/min
8/26/2021 11:06 AM	20:46	5.37 pH	23.59 °C	939.99 µS/cm	5.43 mg/L	0.63 NTU	104.9 mV	31.80 ft	150.00 ml/min
8/26/2021 11:11 AM	25:46	5.37 pH	23.36 °C	948.42 µS/cm	4.74 mg/L	0.58 NTU	102.2 mV	31.80 ft	150.00 ml/min
8/26/2021 11:15 AM	30:11	5.37 pH	23.46 °C	951.94 µS/cm	4.39 mg/L	0.52 NTU	113.3 mV	31.80 ft	150.00 ml/min
8/26/2021 11:20 AM	35:11	5.37 pH	23.81 °C	959.64 µS/cm	5.54 mg/L	0.31 NTU	100.8 mV	31.80 ft	150.00 ml/min
8/26/2021 11:25 AM	40:11	5.37 pH	24.09 °C	935.74 µS/cm	5.76 mg/L	0.32 NTU	98.2 mV	31.80 ft	150.00 ml/min
8/26/2021 11:30 AM	45:11	5.37 pH	24.36 °C	964.13 µS/cm	5.43 mg/L	0.52 NTU	94.8 mV	31.80 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/26/2021 9:45:01 AM

Project: Plant Wansley AP

Operator Name: J. Berisford

Location Name: WGWC-21 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: 50.22 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 13.12 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 110 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, sample time 1130

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	
8/26/2021 9:45 AM	00:00	6.89 pH	21.60 °C	547.29 µS/cm	4.23 mg/L	1.51 NTU	28.4 mV	50.22 ft	125.00 ml/min
8/26/2021 9:50 AM	05:00	7.01 pH	19.50 °C	793.29 µS/cm	1.53 mg/L	10.00 NTU	-14.1 mV	51.80 ft	125.00 ml/min
8/26/2021 9:55 AM	10:00	7.01 pH	19.23 °C	803.24 µS/cm	0.69 mg/L	6.11 NTU	-13.9 mV	52.60 ft	125.00 ml/min
8/26/2021 10:00 AM	15:00	6.96 pH	19.41 °C	754.08 µS/cm	0.54 mg/L	3.61 NTU	-49.9 mV	53.30 ft	125.00 ml/min
8/26/2021 10:05 AM	20:00	6.94 pH	20.57 °C	743.22 µS/cm	0.62 mg/L	2.59 NTU	-46.6 mV	53.60 ft	125.00 ml/min
8/26/2021 10:10 AM	25:00	6.93 pH	21.10 °C	732.63 µS/cm	0.71 mg/L	2.68 NTU	-11.2 mV	53.90 ft	125.00 ml/min
8/26/2021 10:15 AM	30:00	6.94 pH	21.19 °C	717.94 µS/cm	0.97 mg/L	2.05 NTU	-36.8 mV	54.40 ft	125.00 ml/min
8/26/2021 10:20 AM	35:00	6.94 pH	19.72 °C	727.79 µS/cm	0.65 mg/L	1.39 NTU	-32.1 mV	54.80 ft	125.00 ml/min
8/26/2021 10:25 AM	40:00	6.94 pH	19.55 °C	716.76 µS/cm	0.59 mg/L	1.22 NTU	-26.5 mV	55.50 ft	125.00 ml/min
8/26/2021 10:30 AM	45:00	6.93 pH	19.54 °C	704.09 µS/cm	0.54 mg/L	1.78 NTU	0.4 mV	55.70 ft	125.00 ml/min
8/26/2021 10:35 AM	50:00	6.92 pH	19.85 °C	700.29 µS/cm	0.52 mg/L	1.82 NTU	-23.3 mV	56.30 ft	125.00 ml/min
8/26/2021 10:40 AM	55:00	6.92 pH	20.39 °C	697.31 µS/cm	0.52 mg/L	1.77 NTU	-0.4 mV	57.00 ft	125.00 ml/min
8/26/2021 10:45 AM	01:00:00	6.91 pH	20.79 °C	685.77 µS/cm	0.52 mg/L	1.55 NTU	-1.9 mV	57.50 ft	125.00 ml/min
8/26/2021 10:50 AM	01:05:00	6.90 pH	20.82 °C	673.92 µS/cm	0.50 mg/L	1.62 NTU	-4.7 mV	57.80 ft	125.00 ml/min
8/26/2021 10:55 AM	01:10:00	6.90 pH	20.71 °C	672.77 µS/cm	0.50 mg/L	1.22 NTU	-7.6 mV	58.10 ft	125.00 ml/min

8/26/2021 11:00 AM	01:15:00	6.91 pH	20.57 °C	667.40 µS/cm	0.51 mg/L	1.04 NTU	-42.0 mV	58.40 ft	125.00 ml/min
8/26/2021 11:05 AM	01:20:00	6.90 pH	20.65 °C	658.97 µS/cm	0.53 mg/L	1.35 NTU	-45.4 mV	58.60 ft	125.00 ml/min
8/26/2021 11:10 AM	01:25:00	6.90 pH	20.66 °C	654.65 µS/cm	0.59 mg/L	1.44 NTU	-11.2 mV	58.90 ft	125.00 ml/min
8/26/2021 11:15 AM	01:30:00	6.90 pH	20.91 °C	647.87 µS/cm	0.71 mg/L	1.32 NTU	-36.6 mV	59.10 ft	125.00 ml/min
8/26/2021 11:20 AM	01:35:00	6.89 pH	21.47 °C	639.43 µS/cm	0.85 mg/L	1.29 NTU	-28.5 mV	59.30 ft	125.00 ml/min
8/26/2021 11:25 AM	01:40:00	6.88 pH	23.48 °C	650.23 µS/cm	0.89 mg/L	1.14 NTU	-4.0 mV	59.40 ft	125.00 ml/min
8/26/2021 11:30 AM	01:45:00	6.88 pH	25.80 °C	645.30 µS/cm	0.93 mg/L	1.34 NTU	-28.8 mV	59.40 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/26/2021 1:50:01 PM

Project: Plant Wansley AP

Operator Name: J. Berisford

Location Name: WGWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.88 ft Total Depth: 43.88 ft Initial Depth to Water: 18.37 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 11.25 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 43.5 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, sample time- 1520

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	
8/26/2021 1:50 PM	00:00	6.58 pH	27.15 °C	171.23 µS/cm	7.26 mg/L	52.00 NTU	44.2 mV	18.37 ft	125.00 ml/min
8/26/2021 1:55 PM	05:00	5.44 pH	24.29 °C	251.51 µS/cm	2.22 mg/L	171.00 NTU	93.7 mV	19.80 ft	125.00 ml/min
8/26/2021 2:00 PM	10:00	5.44 pH	22.96 °C	258.14 µS/cm	1.69 mg/L	142.00 NTU	133.7 mV	19.80 ft	125.00 ml/min
8/26/2021 2:05 PM	15:00	5.42 pH	23.02 °C	263.91 µS/cm	1.43 mg/L	104.00 NTU	135.2 mV	20.40 ft	125.00 ml/min
8/26/2021 2:10 PM	20:00	5.41 pH	22.89 °C	266.04 µS/cm	1.18 mg/L	76.00 NTU	134.8 mV	20.90 ft	125.00 ml/min
8/26/2021 2:15 PM	25:00	5.41 pH	22.22 °C	265.33 µS/cm	1.06 mg/L	64.00 NTU	83.1 mV	20.50 ft	125.00 ml/min
8/26/2021 2:20 PM	30:00	5.40 pH	22.99 °C	267.75 µS/cm	1.01 mg/L	41.00 NTU	81.9 mV	21.70 ft	125.00 ml/min
8/26/2021 2:25 PM	35:00	5.39 pH	23.92 °C	268.19 µS/cm	0.98 mg/L	30.00 NTU	82.3 mV	21.90 ft	125.00 ml/min
8/26/2021 2:30 PM	40:00	5.39 pH	23.79 °C	267.63 µS/cm	0.96 mg/L	22.00 NTU	130.1 mV	22.00 ft	125.00 ml/min
8/26/2021 2:35 PM	45:00	5.39 pH	24.02 °C	270.88 µS/cm	0.96 mg/L	19.00 NTU	84.0 mV	22.00 ft	125.00 ml/min
8/26/2021 2:40 PM	50:00	5.39 pH	24.15 °C	270.94 µS/cm	0.95 mg/L	14.00 NTU	131.1 mV	22.00 ft	125.00 ml/min
8/26/2021 2:45 PM	55:00	5.40 pH	23.69 °C	270.30 µS/cm	0.95 mg/L	11.00 NTU	83.2 mV	22.00 ft	125.00 ml/min
8/26/2021 2:50 PM	01:00:00	5.40 pH	24.01 °C	272.43 µS/cm	0.95 mg/L	10.00 NTU	81.9 mV	22.00 ft	125.00 ml/min
8/26/2021 2:55 PM	01:05:00	5.40 pH	23.79 °C	271.42 µS/cm	0.94 mg/L	8.47 NTU	81.3 mV	22.00 ft	125.00 ml/min
8/26/2021 3:00 PM	01:10:00	5.40 pH	23.34 °C	273.55 µS/cm	0.96 mg/L	8.25 NTU	125.6 mV	22.00 ft	125.00 ml/min

8/26/2021 3:05 PM	01:15:00	5.41 pH	22.71 °C	273.28 µS/cm	0.96 mg/L	7.00 NTU	80.9 mV	22.00 ft	125.00 ml/min
8/26/2021 3:10 PM	01:20:00	5.40 pH	22.57 °C	275.12 µS/cm	0.97 mg/L	6.23 NTU	125.5 mV	22.00 ft	125.00 ml/min
8/26/2021 3:15 PM	01:25:00	5.40 pH	23.06 °C	273.49 µS/cm	0.96 mg/L	5.58 NTU	81.6 mV	22.00 ft	125.00 ml/min
8/26/2021 3:20 PM	01:30:00	5.40 pH	23.07 °C	273.71 µS/cm	0.96 mg/L	4.31 NTU	127.1 mV	22.00 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/26/2021 1:53:48 PM

Project: Plant Wansley - Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43 ft Total Depth: 53.86 ft Initial Depth to Water: 30.81 ft	Pump Type: Dedicated Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 7800 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 0.29 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850762
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Test Notes:

Collected at 1455, FB-3 collected here, sunny, 80s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	
8/26/2021 1:53 PM	00:00	5.87 pH	26.22 °C	89.15 µS/cm	6.35 mg/L	0.73 NTU	116.0 mV	30.81 ft	130.00 ml/min
8/26/2021 1:58 PM	05:00	5.79 pH	22.60 °C	84.09 µS/cm	5.41 mg/L	1.18 NTU	93.1 mV	31.10 ft	130.00 ml/min
8/26/2021 2:03 PM	10:00	5.80 pH	22.12 °C	87.85 µS/cm	6.49 mg/L	1.34 NTU	86.8 mV	31.10 ft	130.00 ml/min
8/26/2021 2:08 PM	15:00	5.76 pH	22.01 °C	86.45 µS/cm	5.84 mg/L	1.36 NTU	87.0 mV	31.10 ft	130.00 ml/min
8/26/2021 2:13 PM	20:00	5.76 pH	21.98 °C	86.48 µS/cm	6.19 mg/L	1.47 NTU	85.8 mV	31.10 ft	130.00 ml/min
8/26/2021 2:18 PM	25:00	5.80 pH	21.81 °C	87.20 µS/cm	5.81 mg/L	1.26 NTU	82.0 mV	31.10 ft	130.00 ml/min
8/26/2021 2:23 PM	30:00	5.77 pH	22.07 °C	87.98 µS/cm	5.27 mg/L	1.11 NTU	83.6 mV	31.10 ft	130.00 ml/min
8/26/2021 2:28 PM	35:00	5.78 pH	22.17 °C	88.73 µS/cm	6.10 mg/L	0.81 NTU	82.8 mV	31.10 ft	130.00 ml/min
8/26/2021 2:33 PM	40:00	5.78 pH	22.16 °C	89.42 µS/cm	6.21 mg/L	1.11 NTU	82.2 mV	31.10 ft	130.00 ml/min
8/26/2021 2:38 PM	45:00	5.77 pH	21.55 °C	88.81 µS/cm	5.23 mg/L	0.99 NTU	83.0 mV	31.10 ft	130.00 ml/min
8/26/2021 2:43 PM	50:00	5.79 pH	22.00 °C	90.71 µS/cm	5.60 mg/L	0.85 NTU	83.1 mV	31.10 ft	130.00 ml/min
8/26/2021 2:48 PM	55:00	5.80 pH	22.25 °C	91.42 µS/cm	5.91 mg/L	0.83 NTU	81.5 mV	31.10 ft	130.00 ml/min
8/26/2021 2:53 PM	01:00:00	5.80 pH	22.43 °C	91.86 µS/cm	6.09 mg/L	0.73 NTU	80.6 mV	31.10 ft	130.00 ml/min

Samples

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

Low-Flow Test Report:

Test Date / Time: 8/26/2021 1:27:40 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

Location Name: WGWC-24 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: 15.78 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35.8 ft Estimated Total Volume Pumped: 6.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 2.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1355 on 8-26-21. Sunny, 80s. DUP-3 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
8/26/2021 1:27 PM	00:00	4.37 pH	23.54 °C	623.30 µS/cm	2.62 mg/L	5.40 NTU	266.3 mV	15.78 ft	225.00 ml/min
8/26/2021 1:32 PM	05:00	4.34 pH	21.23 °C	666.58 µS/cm	0.91 mg/L	5.40 NTU	246.2 mV	15.90 ft	225.00 ml/min
8/26/2021 1:37 PM	10:00	4.33 pH	20.65 °C	667.06 µS/cm	0.39 mg/L	6.90 NTU	299.7 mV	15.90 ft	225.00 ml/min
8/26/2021 1:42 PM	15:00	4.33 pH	20.65 °C	678.03 µS/cm	0.34 mg/L	5.20 NTU	217.9 mV	15.90 ft	225.00 ml/min
8/26/2021 1:47 PM	20:00	4.33 pH	20.68 °C	679.45 µS/cm	0.32 mg/L	3.90 NTU	277.2 mV	15.90 ft	225.00 ml/min
8/26/2021 1:52 PM	25:00	4.33 pH	20.74 °C	684.15 µS/cm	0.32 mg/L	3.30 NTU	205.8 mV	15.90 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 8/26/2021 2:29:38 PM

Project: Plant Wansley - Ash Pond

Operator Name: H. Auld

<p>Location Name: WGWC-25 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.9 ft Total Depth: 39.93 ft Initial Depth to Water: 18.13 ft</p>	<p>Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34.9 ft Estimated Total Volume Pumped: 17.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 2.04 in</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 714344</p>
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Test Notes:

Sampled at 1552 on 8-26-21. Sunny 80s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 10	
8/26/2021 2:29 PM	00:00	5.29 pH	21.55 °C	347.81 µS/cm	2.60 mg/L	22.00 NTU	217.7 mV	18.13 ft	200.00 ml/min
8/26/2021 2:34 PM	05:00	5.26 pH	19.68 °C	357.54 µS/cm	1.78 mg/L	38.00 NTU	240.7 mV	18.30 ft	200.00 ml/min
8/26/2021 2:39 PM	10:00	5.27 pH	19.35 °C	358.73 µS/cm	1.52 mg/L	36.00 NTU	181.2 mV	18.30 ft	200.00 ml/min
8/26/2021 2:44 PM	15:00	5.27 pH	19.14 °C	357.29 µS/cm	1.24 mg/L	30.00 NTU	169.1 mV	18.30 ft	200.00 ml/min
8/26/2021 2:49 PM	20:00	5.27 pH	19.14 °C	355.73 µS/cm	1.14 mg/L	23.00 NTU	161.6 mV	18.30 ft	200.00 ml/min
8/26/2021 2:54 PM	25:00	5.28 pH	19.14 °C	356.92 µS/cm	1.50 mg/L	22.00 NTU	156.7 mV	18.30 ft	200.00 ml/min
8/26/2021 2:59 PM	30:00	5.28 pH	19.10 °C	355.38 µS/cm	1.03 mg/L	17.00 NTU	151.3 mV	18.30 ft	200.00 ml/min
8/26/2021 3:04 PM	35:00	5.28 pH	19.09 °C	352.10 µS/cm	1.01 mg/L	14.00 NTU	176.5 mV	18.30 ft	200.00 ml/min
8/26/2021 3:09 PM	40:00	5.28 pH	18.79 °C	349.34 µS/cm	2.46 mg/L	12.00 NTU	178.4 mV	18.30 ft	200.00 ml/min
8/26/2021 3:14 PM	45:00	5.28 pH	18.74 °C	350.20 µS/cm	0.99 mg/L	11.00 NTU	149.3 mV	18.30 ft	200.00 ml/min
8/26/2021 3:19 PM	50:00	5.29 pH	19.07 °C	348.77 µS/cm	0.32 mg/L	9.00 NTU	146.4 mV	18.30 ft	200.00 ml/min
8/26/2021 3:24 PM	55:00	5.29 pH	19.79 °C	344.86 µS/cm	0.32 mg/L	7.00 NTU	142.3 mV	18.30 ft	200.00 ml/min
8/26/2021 3:29 PM	01:00:00	5.30 pH	19.85 °C	341.87 µS/cm	0.34 mg/L	8.00 NTU	167.2 mV	18.30 ft	200.00 ml/min
8/26/2021 3:34 PM	01:05:00	5.29 pH	19.89 °C	340.20 µS/cm	0.35 mg/L	6.10 NTU	145.0 mV	18.30 ft	200.00 ml/min
8/26/2021 3:39 PM	01:10:00	5.30 pH	19.62 °C	340.09 µS/cm	0.34 mg/L	5.20 NTU	143.2 mV	18.30 ft	200.00 ml/min

8/26/2021 3:44 PM	01:15:00	5.30 pH	19.49 °C	339.04 µS/cm	0.34 mg/L	5.10 NTU	142.4 mV	18.30 ft	200.00 ml/min
8/26/2021 3:49 PM	01:20:00	5.30 pH	19.32 °C	337.86 µS/cm	0.33 mg/L	4.20 NTU	141.8 mV	18.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Calibration Logs



Daily Instrument Calibration Log

SITE: PLANT WANSLEY - AP
 TECHNICIAN: O. FUQUEA
 WATER LEVEL: SOLNIST M101
 WATER LEVEL S/N: 322814

INSTRUMENT S/N: 741293
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: COND LOT #: 061033 EXP. DATE: 9-21
 ID: PH 4 LOT #: 06E1407 EXP. DATE: 9-22
 ID: PH 7 LOT #: 061615 EXP. DATE: 9-22
 ID: PH 10 LOT #: 06D517 EXP. DATE: 4-22
 ID: ORP LOT #: 06J673 EXP. DATE: 7-21 *Midday pH check*
 ID: _____ LOT #: _____ EXP. DATE: _____ *Must be less than .10*
 ID: _____ LOT #: _____ EXP. DATE: _____ *(6.90-7.10 range)*
 _____ *Recalibrate if not within range*

Calibration Date: 2-2-21
 RDO: 100% sat. = 106.2% *Midday pH check*
 PH: 4.00 = 3.96 7.00 = 7.20 10.00 = 10.75 7.0 = 7.09
 PH Recal (if needed): 4.00 = 6.1 7.00 = _____ 10.00 = _____ 7.0 = NA post recal check
 CONDUCTIVITY: 1360 = 1413
 ORP (mV) 243 = 240

Calibration Date: 2-3-21
 RDO: 100% sat. = 103.6% *Midday pH check*
 PH: 4.00 = 3.78-4.07 7.00 = 6.98-7.20 10.00 = 10.11 7.0 = 7.08
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = NA post recal check
 CONDUCTIVITY: 1315 = 1413
 ORP (mV) 257 = 240

Calibration Date: 2-4-21
 RDO: 100% sat. = 99.6% *Midday pH check*
 PH: 4.00 = 3.78 7.00 = 6.98 10.00 = 10.02 7.0 = 7.02
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = NA post recal check
 CONDUCTIVITY: 1438.7 = 1413
 ORP (mV) 260 = 240

Calibration Date: _____
 RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date: _____
 RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: H. Auld

WATER LEVEL: Solmst 101
WATER LEVEL S/N: 48832

INSTRUMENT S/N: 714344
INSTRUMENT TYPE: AquaTroll
CAL. SOLUTIONS:
ID: pH4 LOT #: 06E1407 EXP. DATE: 09/22
ID: pH7 LOT #: 061615 EXP. DATE: 09/22
ID: pH10 LOT #: 06D851 EXP. DATE: 05/22
ID: ORP LOT #: 0611018 EXP. DATE: 05/21
ID: COMD. LOT #: 0611033 EXP. DATE: 09/21
ID: _____ LOT #: _____ EXP. DATE: _____
ID: _____ LOT #: _____ EXP. DATE: _____

Calibration Date: 2/2/21 *Midday pH rechecks*
Recalibrate if needed
RDO: 100% sat. = 100.62
PH: 4.00 = 3.58 7.00 = 6.66 10.00 = 9.79 *Midday pH check*
CONDUCTIVITY: 1413 = 1389 7.0 = 6.69
ORP (mV) 240 = 247.8 *(Recal done) 7 =*

Calibration Date: 2/3/21
RDO: 100% sat. = 99.3
PH: 4.00 = 4.33 7.00 = 7.28 10.00 = 10.24 *Midday pH check*
CONDUCTIVITY: 1413 = 1412 7.0 = 7.14
ORP (mV) 240 = 237 *Recal done*

Calibration Date: 2/4/21
RDO: 100% sat. = 102.1
PH: 4.00 = 4.20 7.00 = 7.06 10.00 = 9.92 *Midday pH check*
CONDUCTIVITY: 1413 = 1413 7.0 = 7.11
ORP (mV) 240 = 242 *Recal done*

Calibration Date: _____
RDO: 100% sat. = _____
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ *Midday pH check*
CONDUCTIVITY: _____ 7.0 = _____
ORP (mV) _____

Calibration Date: _____
RDO: 100% sat. = _____ *Midday pH check*
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
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: NA
10 NTU - LOT # 10136 EXP. DATE: 08/21
20 NTU - LOT # 10139 EXP. DATE: 08/21

Calibration Date: 2/2/21

Calibration Solution	Instrument Reading	
0.0	<u>0.26</u>	NTU
10.0	<u>10.0</u>	NTU
20.0	<u>20.4</u>	NTU

Calibration Date: 2/3/21

Calibration Solution	Instrument Reading	
0.0	<u>0.20</u>	NTU
10.0	<u>10.2</u>	NTU
20.0	<u>20.0</u>	NTU

Calibration Date: 2/4/21

Calibration Solution	Instrument Reading	
0.0	<u>0.2</u>	NTU
10.0	<u>10.1</u>	NTU
20.0	<u>20.1</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 Wausley AP/PZ
 TECHNICIAN: Ryan Walker
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 378589

INSTRUMENT S/N: R32813 602547
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

ID: PH4	LOT #: 06D046	EXP. DATE: 04/22
ID: PH7	LOT #: 96L1006	EXP. DATE: 12/21
ID: PH10	LOT #: 96L148	EXP. DATE: 12/21
ID: CO2	LOT #: 0612033	EXP. DATE: 09/21
ID: ORP	LOT #: 06H1018	EXP. DATE: 12/21
ID:	LOT #:	EXP. DATE:
ID:	LOT #:	EXP. DATE:

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 3/9/21
 RDO: 100% sat. = 99.09 *Midday pH check*
 PH: 4.00 = 3.96 7.00 = 6.89 10.00 = 10.00 7.0 = 6.95
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = *post recal check*
 CONDUCTIVITY: 1413 = 1423
 ORP (mV) 241.56 = 246.4

Calibration Date: 3/10/21
 RDO: 100% sat. = 99.81 *Midday pH check*
 PH: 4.00 = 4.10 7.00 = 7.00 10.00 = 10.06 7.0 = 7.10
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = *post recal check*
 CONDUCTIVITY: 1413 = 1050.3
 ORP (mV) 248.63 = 250.9

Calibration Date: 3/11/21
 RDO: 100% sat. = 99.81 *Midday pH check*
 PH: 4.00 = 4.34 7.00 = 7.00 10.00 = 10.07 7.0 = 7.05
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = *post recal check*
 CONDUCTIVITY: 1413 = 1578.1
 ORP (mV) 241.94 = 242.7

Calibration Date:
 RDO: 100% sat. = *Midday pH check*
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = *post recal check*
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:
 RDO: 100% sat. = *Midday pH check*
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = *post recal check*
 CONDUCTIVITY: =
 ORP (mV) =



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: Ryan Walker
INSTRUMENT S/N: 190906079596
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # PI EXP. DATE: New
10 NTU - LOT # A0350 EXP. DATE: 04/22
20 NTU - LOT # A0339 EXP. DATE: 03/22

Calibration Date: 3/9/21

Calibration Solution	Instrument Reading	
0.0	<u>0.09</u>	NTU
10.0	<u>10.4</u>	NTU
20.0	<u>20.8</u>	NTU

Calibration Date: 3/10/21

Calibration Solution	Instrument Reading	
0.0	<u>0.12</u>	NTU
10.0	<u>10.0</u>	NTU
20.0	<u>19.9</u>	NTU

Calibration Date: 3/11/21

Calibration Solution	Instrument Reading	
0.0	<u>0.15</u>	NTU
10.0	<u>9.93</u>	NTU
20.0	<u>20.0</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: Wansley AP
 TECHNICIAN: H. Hild
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 48832

INSTRUMENT S/N: 608421 - Pure water
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

ID: <u>pH 4</u>	LOT #: <u>06E1407</u>	EXP. DATE: <u>09/22</u>
ID: <u>pH 7</u>	LOT #: <u>1GB200</u>	EXP. DATE: <u>02/23</u>
ID: <u>pH 10</u>	LOT #: <u>06J170</u>	EXP. DATE: <u>08/22 10/22</u>
ID: <u>Cond.</u>	LOT #: <u>06H1033</u>	EXP. DATE: <u>09/21</u>
ID: <u>ORP</u>	LOT #: <u>06H1018</u>	EXP. DATE: <u>05/21</u>

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 3/8/21
 RDO: 100% sat. = 106.3
 PH: 4.00 = 4.34 7.00 = 7.21 10.00 = 9.97
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = 7.04
 CONDUCTIVITY: 1413 = 1464
 ORP (mV) 240 = 243

Midday pH check
 7.0 = 7.04
 7.0 = post recal check

Calibration Date: 3/9/21
 RDO: 100% sat. = 98.7
 PH: 4.00 = 3.99 7.00 = 7.23 10.00 = 10.60
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = 6.99
 CONDUCTIVITY: 1413 = 1380
 ORP (mV) 240 = 253

Midday pH check
 7.0 = 6.99
 7.0 = post recal check

Calibration Date: 3-10-21
 RDO: 100% sat. = 103.7
 PH: 4.00 = 4.04 7.00 = 6.95 10.00 = 10.01
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = 7.04
 CONDUCTIVITY: 1413 = 1120
 ORP (mV) 240 = 233

Midday pH check
 7.0 = 7.04
 7.0 = post recal check

Calibration Date: 3/11/21
 RDO: 100% sat. = 104.1
 PH: 4.00 = 3.94 7.00 = 7.05 10.00 = 10.07
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = 7.04
 CONDUCTIVITY: 1413 = 1645
 ORP (mV) 240 = 240

Midday pH check
 7.0 = 7.04
 7.0 = post recal check

Calibration Date: 3/12/21
 RDO: 100% sat. = 96.1
 PH: 4.00 = 4.10 7.00 = 7.06 10.00 = 10.08
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = 7.04
 CONDUCTIVITY: 1413 = 1588
 ORP (mV) 240 = 242

Midday pH check
 7.0 = 7.04
 7.0 = post recal check



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: H. Auld

INSTRUMENT S/N: 39566 (Rental)
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # A NA EXP. DATE: New DF
10 NTU - LOT # A0301 EXP. DATE: Feb-22
20 NTU - LOT # A0339 EXP. DATE: Mar-22

Calibration Date: 3/8/21

Calibration Solution	Instrument Reading	
0.0	0.2	NTU
10.0	9.6	NTU
20.0	19.7	NTU

Calibration Date: 3/9/21

Calibration Solution	Instrument Reading	
0.0	0.2	NTU
10.0	9.7	NTU
20.0	19.8	NTU

Calibration Date: 3/10/21

Calibration Solution	Instrument Reading	
0.0	0.3	NTU
10.0	9.5	NTU
20.0	19.6	NTU

Calibration Date: 3/11/21

Calibration Solution	Instrument Reading	
0.0	0.2	NTU
10.0	9.2	NTU
20.0	20.5	NTU

Calibration Date: 3/12/21

Calibration Solution	Instrument Reading	
0.0	0.2	NTU
10.0	9.2	NTU
20.0	19.2	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
 WATER LEVEL: Solimat
 WATER LEVEL S/N: 378591

INSTRUMENT S/N: 601857
 INSTRUMENT TYPE: AquaTroll

CAL. SOLUTION/S:	ID:	Lot #:	EXP. DATE:
	Cond.	06E438	05/21
	pH 4	06D046	04/22
	pH 7	76B200	02/23
	pH 10	065170	10/22
	Quick Cal	033240	9/21
	Truro	-	New DI H ₂ O
	ID:	LOT #:	EXP. DATE:

Midday pH check

Must be less than .10

(6.90-7.10 range)

Recalibrate if not within range

Calibration Date: 3-9-21

RDO: 100% sat. = 100.86

Midday pH check

PH: 4.00 = 4.15 7.00 = 7.20 10.00 = 9.90 7.0 = 6.96

PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = NA post recal check NA

CONDUCTIVITY: 1413 = 1383

ORP (mV) 244 = 188.9

Calibration Date: 3-10-21

RDO: 100% sat. = 100.15

Midday pH check

PH: 4.00 = 4.02 7.00 = 6.95 10.00 = 10.46 7.0 = 7.24

PH Recal (if needed): 4.00 = 4.11 7.00 = 7.18 10.00 = 10.31 7.0 = 7.07 post recal check

CONDUCTIVITY: 1413 = 1303

ORP (mV) 751 = 289.9

Calibration Date: 3-11-21

RDO: 100% sat. = 99.96

Midday pH check

PH: 4.00 = 4.00 7.00 = 6.85 10.00 = 9.81 7.0 = 7.31

PH Recal (if needed): 4.00 = 4.08 7.00 = 7.14 10.00 = 10.28 7.0 = 7.02 post recal check

CONDUCTIVITY: 1413 = 1310

ORP (mV) 245 = 237.1

Calibration Date: 3-12-21

RDO: 100% sat. = 99.75

Midday pH check

PH: 4.00 = 4.05 7.00 = 7.09 10.00 = 10.07 7.0 =

PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = NA post recal check Only worked

CONDUCTIVITY: 1413 = 1449

ORP (mV) 240 = 193.8

half-day

Calibration Date:

RDO: 100% sat. =

Midday pH check

PH: 4.00 = 7.00 = 10.00 = 7.0 =

PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check

CONDUCTIVITY: =

ORP (mV) =



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: T. Gobie

INSTRUMENT S/N: 17120C063767
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NewDL EXP. DATE: —
10 NTU - LOT # A0136 EXP. DATE: Aug 121
20 NTU - LOT # A0139 EXP. DATE: Aug 121

Calibration Date: 3-8-21

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

NA (site wide water levels all day)

Calibration Date: 3-9-21

Calibration Solution	Instrument Reading	
0.0	0.18	NTU
10.0	9.62	NTU
20.0	20.5	NTU

100 = 101
800 = 803

Calibration Date: 3-10-21

Calibration Solution	Instrument Reading	
0.0	0.22	NTU
10.0	9.70	NTU
20.0	20.2	NTU

100 = 102
800 = 800

Calibration Date: 3-11-21

Calibration Solution	Instrument Reading	
0.0	0.24	NTU
10.0	9.95	NTU
20.0	20.3	NTU

100 = 104
800 = 802

Calibration Date: 3-12-21

Calibration Solution	Instrument Reading	
0.0	0.27	NTU
10.0	10.2	NTU
20.0	20.3	NTU

100 = 102
800 = 800

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Wansley Ash Pond
 TECHNICIAN: T. Gable
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 378591

INSTRUMENT S/N: 040821
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

ID: pH 4	LOT #: OGE1407	EXP. DATE: 09/22
ID: pH 7	LOT #: OGE1615	EXP. DATE: 09/22
ID: pH 10	LOT #: OGD481	EXP. DATE: 04/22
ID: ORP	LOT #: IGA224	EXP. DATE: 10/21
ID: Cond	LOT #: OGT1033	EXP. DATE: 09/21
ID:	LOT #:	EXP. DATE:
ID:	LOT #:	EXP. DATE:

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 4-7-21
 RDO: 100% sat. = 99.2 *Midday pH check*
 PH: 4.00 = 4.88 7.00 = 7.57 10.00 = 10.47 7.0 = 7.04 ✓
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = NA post recal check
 CONDUCTIVITY: 1413 = 1433
 ORP (mV) 240 = 189.1

Calibration Date: 4-8-21
 RDO: 100% sat. = 96.3 *Midday pH check*
 PH: 4.00 = 4.89 7.00 = 7.57 10.00 = 10.46 7.0 = 7.13
 PH Recal (if needed): 4.00 = 4.81 7.00 = 7.61 10.00 = 10.42 7.0 = 7.05 post recal check ✓
 CONDUCTIVITY: 1413 = 1508
 ORP (mV) 240 = 192.6

Calibration Date:
 RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:
 RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:
 RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: WANSLEY AP
 TECHNICIAN: O. FUQUEN
 WATER LEVEL: SOLWEST M101
 WATER LEVEL S/N: 322814

INSTRUMENT S/N: 714293
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

ID: <u>Cond</u>	LOT #: <u>0611032</u>	EXP. DATE: <u>4-21</u>
ID: <u>pH4</u>	LOT #: <u>06E1402</u>	EXP. DATE: <u>4-22</u>
ID: <u>pH7</u>	LOT #: <u>06D808</u>	EXP. DATE: <u>4-22</u>
ID: <u>pH10</u>	LOT #: <u>06D851</u>	EXP. DATE: <u>4-22</u>
ID: <u>ORP</u>	LOT #: <u>0611018</u>	EXP. DATE: <u>5-21</u>
ID: _____	LOT #: _____	EXP. DATE: _____
ID: _____	LOT #: _____	EXP. DATE: _____

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 4-7-21
 RDO: 100% sat. = 100.14%
 PH: 4.00 = 4.30 7.00 = 7.03 10.00 = 9.42
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____
 CONDUCTIVITY: 1458 = 1447
 ORP (mV) 225 = 195.1

Midday pH check
 7.0 = 7.06 COND = 131432
 7.0 = _____ post recal check NA

Calibration Date: 4-8-21
 RDO: 100% sat. = 100.5%
 PH: 4.00 = 4.09 7.00 = 6.99 10.00 = 9.99
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____
 CONDUCTIVITY: 1485 = 1502
 ORP (mV) 29199 = 192.4

Midday pH check
 7.0 = 7.04
 7.0 = _____ post recal check NA

Calibration Date: _____
 RDO: 100% sat. = _____
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Midday pH check
 7.0 = _____
 7.0 = _____ post recal check

Calibration Date: _____
 RDO: 100% sat. = _____
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Midday pH check
 7.0 = _____
 7.0 = _____ post recal check

Calibration Date: _____
 RDO: 100% sat. = _____
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Midday pH check
 7.0 = _____
 7.0 = _____ post recal check



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: O. FUQUA

INSTRUMENT S/N: 16040C049743
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # New DI EXP. DATE: -
10 NTU - LOT # A0136 EXP. DATE: Aug/21
20 NTU - LOT # A0139 EXP. DATE: Aug/21

Calibration Date: 4-7-21

Calibration Solution	Instrument Reading	
0.0	<u>0.1</u>	NTU
10.0	<u>9.93</u>	NTU
20.0	<u>19.47</u>	NTU

Calibration Date: Q-4-8-21

Calibration Solution	Instrument Reading	
0.0	<u>0.11</u>	NTU
10.0	<u>9.93</u>	NTU
20.0	<u>19.82</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

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: I1090C012353
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # New BI EXP. DATE: -
10 NTU - LOT # 120107 EXP. DATE: 5-1-21
20 NTU - LOT # A0113 EXP. DATE: 5-1-21

Calibration Date: 4-7-21

Calibration Solution	Instrument Reading	
0.0	0.23	NTU
10.0	10.2	NTU
20.0	20.5	NTU

100 = 98.4
800 = 803

Calibration Date: 4-8-21

Calibration Solution	Instrument Reading	
0.0	0.15	NTU
10.0	9.74	NTU
20.0	19.9	NTU

100 = 99.6
800 = 801

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

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Wansley - AP
 TECHNICIAN: H. Auld
 WATER LEVEL: Solinst M101
 WATER LEVEL S/N: 48832

INSTRUMENT S/N: 714344
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS/ID: pH 4 LOT #: 06E441 EXP. DATE: 05/22
pH 7 LOT #: 19450117 EXP. DATE: 02/22
pH 10 LOT #: 21010067 EXP. DATE: 02/22
ORP LOT #: 19460167 EXP. DATE: 09/21
COND 1413 LOT #: 160949 EXP. DATE: 4/22

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 8-24-21
 RDO: 100% sat. = 102.7
 PH: 4.00 = 3.97 7.00 = 6.91 10.00 = 9.74
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = 9.74
 CONDUCTIVITY: 1413 = 1715
 ORP (mV) 240 = 238

Calibration Date: 8-25-21
 RDO: 100% sat. = 98.6
 PH: 4.00 = 4.96 7.00 = 7.05 10.00 = 10.04
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = 10.04
 CONDUCTIVITY: 1413 = 1461
 ORP (mV) 228 = 219

Calibration Date: 8-26-21
 RDO: 100% sat. = 100.21
 PH: 4.00 = 4.03 7.00 = 7.00 10.00 = 10.01
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = 10.01
 CONDUCTIVITY: 1413 = 1390
 ORP (mV) 228 = 231

Calibration Date:
 RDO: 100% sat. =
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 =
 CONDUCTIVITY: = =
 ORP (mV) = =

Calibration Date:
 RDO: 100% sat. =
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 =
 CONDUCTIVITY: = =
 ORP (mV) = =



Daily Instrument Calibration Log

SITE: Plant Wansley - AP
TECHNICIAN: H. Ancl

INSTRUMENT S/N: 110906012353
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # EXP. DATE:
10 NTU - LOT # EXP. DATE:
20 NTU - LOT # EXP. DATE:

Calibration Date: 8-24-21

Calibration Solution	Instrument Reading	
0.0	0.3	NTU
10.0	10.1	NTU
20.0	20.2	NTU

Calibration Date: 8-25-21

Calibration Solution	Instrument Reading	
0.0	0.3	NTU
10.0	10.2	NTU
20.0	20.4	NTU

Calibration Date: 8-26-21

Calibration Solution	Instrument Reading	
0.0	0.2	NTU
10.0	10.0	NTU
20.0	19.9	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 AP
 TECHNICIAN: Bristol
 WATER LEVEL: solust
 WATER LEVEL S/N: 267301

INSTRUMENT S/N: 714302
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: PH 4 LOT #: 16D680 EXP. DATE: 4/23
 ID: PH 7 LOT #: 16F007 EXP. DATE: 6/23
 ID: PH 9.0 LOT #: 16F950 EXP. DATE: 6/23
 ID: Cond LOT #: 16D904 EXP. DATE: 4/22
 ID: 02P LOT #: 16E445 EXP. DATE: 3/22

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 7/23/21

RDO: 100% sat. = 101.4 Midday pH check
 PH: 4.00 = 4.07 7.00 = 7.13 10.00 = 9.93 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1622
 ORP (mV) 240 = 239.3

Calibration Date: 8/21/21

RDO: 100% sat. = 102.6 Midday pH check
 PH: 4.00 = 4.01 7.00 = 7.03 10.00 = 9.99 7.0 = 7.04
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1491
 ORP (mV) 240 = 226.7

Calibration Date: 8/25/21

RDO: 100% sat. = 99.14 Midday pH check
 PH: 4.00 = 4.01 7.00 = 7.02 10.00 = 10.00 7.0 = 7.03
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1464
 ORP (mV) 240 = 226.5

Calibration Date: 8/26/21

RDO: 100% sat. = 106.5 Midday pH check
 PH: 4.00 = 3.99 7.00 = 7.00 10.00 = 10.00 7.0 = 7.01
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1449
 ORP (mV) 240 = 230.7

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: J Bassford

INSTRUMENT S/N: 160400049767
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: DI 4/20
10 NTU - LOT # A1013 EXP. DATE: 4/22
20 NTU - LOT # A1013 EXP. DATE: 4/22

Calibration Date: 8/23/21

Calibration Solution	Instrument Reading	
0.0	0.21	NTU
10.0	9.73	NTU
20.0	20.4	NTU

Calibration Date: 8/24/21

Calibration Solution	Instrument Reading	
0.0	0.15	NTU
10.0	9.85	NTU
20.0	20.0	NTU

Calibration Date: 8/25/21

Calibration Solution	Instrument Reading	
0.0	0.16	NTU
10.0	10.0 10.2	NTU
20.0	19.8	NTU

Calibration Date: 8/26/21

Calibration Solution	Instrument Reading	
0.0	0.20	NTU
10.0	9.59	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 Wonsley
 TECHNICIAN: Toby Johnson
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 322101

INSTRUMENT S/N: 850762
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: ORP LOT #: 21140141 EXP. DATE: 8/2022
 ID: pH 10 LOT #: 21080189 EXP. DATE: 8/2022
 ID: pH 7 LOT #: 21010066 EXP. DATE: 8/2022
 ID: pH 4 LOT #: 16-D680 EXP. DATE: 4/2023
 ID: Conductivity LOT #: 16-D949 EXP. DATE: 4/2022

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date:

RDO: 100% sat. = 103.88 Midday pH check
 PH: 4.00 = 4.36 7.00 = 7.14 10.00 = 10.01 7.0 = 7.02
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 $\mu S/cm = 1.413 \times 10^5/cm$
 ORP (mV) +228 = 220.8
226.68

Calibration Date: 8/20/2021

RDO: 100% sat. = 105.26 Midday pH check
 PH: 4.00 = 3.99 7.00 = 7.02 10.00 = 9.98 7.0 = 7.01
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1408.4 1463.4
 ORP (mV) 231.51 = 235.4

Calibration Date: 8/23/2021

RDO: 100% sat. = 97.35 Midday pH check
 PH: 4.00 = 4.06 7.00 = 6.97 10.00 = 9.81 9.77 7.0 = 7.01
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1351.9
 ORP (mV) 228.77 = 224.5

Calibration Date: 8/24/2021

RDO: 100% sat. = 99.14 Midday pH check
 PH: 4.00 = 3.96 7.00 = 7.01 10.00 = 10.07 7.0 = 6.99
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1461.8
 ORP (mV) 228.14 = 225.9

Calibration Date: 8/25/2021

RDO: 100% sat. = 107.19 Midday pH check
 PH: 4.00 = 4.04 7.00 = 7.03 10.00 = 9.98 7.0 = 7.02
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1327.6
 ORP (mV) 229.11 = 233.1



Daily Instrument Calibration Log

SITE: Plant Wansley
 TECHNICIAN: Toby Johnson
 WATER LEVEL: Salinst
 WATER LEVEL S/N: 322101

INSTRUMENT S/N: 850762
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: ORP LOT #: 2114014 EXP. DATE: 8/2022
 ID: pH10 LOT #: 21080189 EXP. DATE: 8/2022
 ID: pH7 LOT #: 21010066 EXP. DATE: 8/2022
 ID: pH4 LOT #: 16-D680 EXP. DATE: 4/2023
 ID: Conductivity LOT #: 16-D949 EXP. DATE: 4/2022
 ID: _____ LOT #: _____ EXP. DATE: _____
 ID: _____ LOT #: _____ EXP. DATE: _____

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 8/26/2021

RDO: 100% sat. = 100.73 Midday pH check
 PH: 4.00 = 4.01 7.00 = 6.98 10.00 = 10.00 7.0 = 7.62
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1495.8
 ORP (mV) 230.71 = 230.9

Calibration Date:

RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = 10 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) 230.71 = 230.9

Calibration Date:

RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:

RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:

RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: Toby Johnson
INSTRUMENT S/N: 17010C055429
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # A0 P.I. EXP. DATE: New
10 NTU - LOT # A0164 EXP. DATE: 9/21
20 NTU - LOT # A0167 EXP. DATE: 9/21

Calibration Date: 8/19/2021

Calibration Solution	Instrument Reading	
0.0	0.31	NTU
10.0	10.3	NTU
20.0	20.0	NTU

Calibration Date: 8/20/2021

Calibration Solution	Instrument Reading	
0.0	0.30	NTU
10.0	10.0	NTU
20.0	19.9	NTU

Calibration Date: 8/23/2021

Calibration Solution	Instrument Reading	
0.0	0.00	NTU
10.0	9.34	NTU
20.0	20.8	NTU

Calibration Date: 8/24/2021

Calibration Solution	Instrument Reading	
0.0	0.13	NTU
10.0	9.25	NTU
20.0	20.9	NTU

Calibration Date: 8/25/2021

Calibration Solution	Instrument Reading	
0.0	0.21	NTU
10.0	9.29	NTU
20.0	19.9	NTU

Calibration Date: 8/26/2021

Calibration Solution	Instrument Reading	
0.0	0.39	NTU
10.0	9.78	NTU
20.0	19.7	NTU

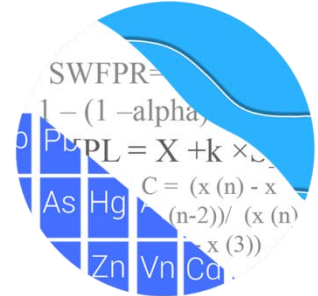
APPENDIX D

Statistical Analysis Reports

GROUNDWATER STATS CONSULTING

August 24, 2021

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Wansley Ash Pond
March 2021 Statistical Analysis

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the March 2021 Groundwater Detection and Assessment Monitoring Statistical summary 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 except for those discussed below. 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, WGWC-19, WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, and WGWC-25

Note that wells WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, and WGWC-25 were first sampled in March 2021. These wells have been sampled for Appendix III

parameters and lithium a total of two times, and will be incorporated into statistical analyses once a minimum of 8 samples are available.

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 Appendix IV downgradient well/constituent pairs with 100% non-detects 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 2021, cadmium and mercury were not detected; therefore, these constituents were not required to be sampled during the March 2021 event. These data are plotted on 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 non-detect 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 non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the most recent reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

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 – March 2021

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 March 2021 (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 March 2021 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; therefore, it 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. A summary table of the background prediction limits and exceedances follows this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: WGWC-8, WGWC-9, and WGWC-16
- Calcium: WGWC-8
- Chloride: WGWC-8 and WGWC-16
- Fluoride: WGWC-9, WGWC-15, and WGWC-19
- Sulfate: WGWC-8, WGWC-9, and WGWC-16
- TDS: WGWC-8

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:

- Boron: WGWC-8
- 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 and WGWC-19

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 – March 2021

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% non-detects do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis prior to constructing statistical limits. No new values were flagged during this analysis and a complete list of flagged outliers follows this report (Figure C).

First, interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through March 2021 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects 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 Federal 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 State 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 March 2021 sample event (Figure G). Note that a GWPS is established for cadmium and mercury; however, since these constituents were not sampled during the March 2021 sampling event, 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,



Andrew T. Collins
Project Manager



Kristina L. Rayner
Groundwater Statistician

100% Non-Detects: Appendix IV Downgradient

Analysis Run 5/11/2021 1:12 PM 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

Lead (mg/L)

WGWC-12, WGWC-19

Molybdenum (mg/L)

WGWC-16, WGWC-8

Selenium (mg/L)

WGWC-13, WGWC-17

Thallium (mg/L)

WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-8, WGWC-9

Appendix III Interwell Prediction Limits - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	WGWC-16	0.08	n/a	3/11/2021	1.1	Yes	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.08	n/a	3/11/2021	2.4	Yes	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.08	n/a	3/12/2021	0.64	Yes	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-8	58	n/a	3/11/2021	83	Yes	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-16	6.05	n/a	3/11/2021	49	Yes	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-8	6.05	n/a	3/11/2021	110	Yes	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-15	0.284	n/a	3/12/2021	0.88	Yes	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-19	0.284	n/a	3/11/2021	0.31	Yes	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-9	0.284	n/a	3/12/2021	0.98	Yes	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-16	21	n/a	3/11/2021	64	Yes	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-8	21	n/a	3/11/2021	220	Yes	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-9	21	n/a	3/12/2021	62	Yes	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-8	190	n/a	3/11/2021	530	Yes	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	WGWC-10	0.08	n/a	3/11/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-11	0.08	n/a	3/12/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-12	0.08	n/a	3/12/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-13	0.08	n/a	3/11/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-14A	0.08	n/a	3/11/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-15	0.08	n/a	3/12/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-16	0.08	n/a	3/11/2021	1.1	Yes	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-17	0.08	n/a	3/11/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-19	0.08	n/a	3/11/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.08	n/a	3/11/2021	2.4	Yes	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.08	n/a	3/12/2021	0.64	Yes	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-10	58	n/a	3/11/2021	7.9	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-11	58	n/a	3/12/2021	1.6	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-12	58	n/a	3/12/2021	15	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-13	58	n/a	3/11/2021	4	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-14A	58	n/a	3/11/2021	0.79	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-15	58	n/a	3/12/2021	31	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-16	58	n/a	3/11/2021	32	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-17	58	n/a	3/11/2021	5.7	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-19	58	n/a	3/11/2021	15	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-8	58	n/a	3/11/2021	83	Yes	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-9	58	n/a	3/12/2021	11	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-10	6.05	n/a	3/11/2021	1.7	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-11	6.05	n/a	3/12/2021	3.6	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-12	6.05	n/a	3/12/2021	3.5	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-13	6.05	n/a	3/11/2021	1.2	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-14A	6.05	n/a	3/11/2021	2.6	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-15	6.05	n/a	3/12/2021	1.6	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-16	6.05	n/a	3/11/2021	49	Yes	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-17	6.05	n/a	3/11/2021	1.3	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-19	6.05	n/a	3/11/2021	2.9	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-8	6.05	n/a	3/11/2021	110	Yes	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-9	6.05	n/a	3/12/2021	3.4	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-10	0.284	n/a	3/11/2021	0.15	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-11	0.284	n/a	3/12/2021	0.044J	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-12	0.284	n/a	3/12/2021	0.096J	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-13	0.284	n/a	3/11/2021	0.18	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-14A	0.284	n/a	3/11/2021	0.04J	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-15	0.284	n/a	3/12/2021	0.88	Yes	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-16	0.284	n/a	3/11/2021	0.061J	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-17	0.284	n/a	3/11/2021	0.05J	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-19	0.284	n/a	3/11/2021	0.31	Yes	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-8	0.284	n/a	3/11/2021	0.16	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-9	0.284	n/a	3/12/2021	0.98	Yes	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-10	7.96	4.96	3/11/2021	6.56	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-11	7.96	4.96	3/12/2021	5.46	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-12	7.96	4.96	3/12/2021	6.66	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-13	7.96	4.96	3/11/2021	5.95	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-14A	7.96	4.96	3/11/2021	5.1	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-15	7.96	4.96	3/12/2021	7.72	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-16	7.96	4.96	3/11/2021	5.21	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-17	7.96	4.96	3/11/2021	5.96	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-19	7.96	4.96	3/11/2021	7.12	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-8	7.96	4.96	3/11/2021	5.35	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-9	7.96	4.96	3/12/2021	5.88	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	WGWC-10	21	n/a	3/11/2021	2.8	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-11	21	n/a	3/12/2021	2	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-12	21	n/a	3/12/2021	14	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-13	21	n/a	3/11/2021	2.9	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-14A	21	n/a	3/11/2021	1.7	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-15	21	n/a	3/12/2021	19	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-16	21	n/a	3/11/2021	64	Yes	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-17	21	n/a	3/11/2021	3.9	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-19	21	n/a	3/11/2021	4	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-8	21	n/a	3/11/2021	220	Yes	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-9	21	n/a	3/12/2021	62	Yes	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-10	190	n/a	3/11/2021	52	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-11	190	n/a	3/12/2021	27	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-12	190	n/a	3/12/2021	78	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-13	190	n/a	3/11/2021	63	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-14A	190	n/a	3/11/2021	24	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-15	190	n/a	3/12/2021	130	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-16	190	n/a	3/11/2021	190	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-17	190	n/a	3/11/2021	75	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-19	190	n/a	3/11/2021	100	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-8	190	n/a	3/11/2021	530	Yes	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-9	190	n/a	3/12/2021	130	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Prediction Limits Exceedances - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	WGWC-8	0.199	63	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWC-8	12.18	98	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-5 (bg)	-0.1281	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-8	19.96	106	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-19	-0.01821	-89	-81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-9	-0.1359	-117	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-4 (bg)	0.7157	79	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-8	13.18	84	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-8	61.15	99	58	Yes	16	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	WGWA-1 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-18 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-2 (bg)	0	-27	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-3 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-4 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-5 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-6 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-7 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-16	-0.8188	-51	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-8	0.199	63	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-9	0.04945	50	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-1 (bg)	0.05215	50	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-18 (bg)	-1.185	-38	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-2 (bg)	-0.5121	-36	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-3 (bg)	0	8	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-4 (bg)	0	-19	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-5 (bg)	-0.07827	-28	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-6 (bg)	0	7	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-7 (bg)	-0.09755	-32	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWC-8	12.18	98	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-1 (bg)	0.1237	56	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-18 (bg)	-0.1056	-32	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-2 (bg)	0.03627	27	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-3 (bg)	0	-14	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-4 (bg)	-0.01807	-51	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-5 (bg)	-0.1281	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-6 (bg)	0	-7	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-7 (bg)	0	-7	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-16	-35.21	-42	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-8	19.96	106	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-1 (bg)	0	-27	-81	No	20	75	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-18 (bg)	-0.01055	-72	-81	No	20	20	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-2 (bg)	-0.01627	-73	-81	No	20	45	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-3 (bg)	0	-33	-81	No	20	70	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-4 (bg)	-0.005875	-62	-81	No	20	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-5 (bg)	0	33	74	No	19	89.47	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-6 (bg)	-0.005996	-75	-81	No	20	10	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-7 (bg)	0	-10	-81	No	20	80	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-15	-0.0422	-76	-81	No	20	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-19	-0.01821	-89	-81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-9	-0.1359	-117	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-1 (bg)	0	-21	-58	No	16	87.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-18 (bg)	-0.8514	-38	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-2 (bg)	-0.04053	-21	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-3 (bg)	0.01618	14	58	No	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-4 (bg)	0.7157	79	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-5 (bg)	0.02834	15	53	No	15	26.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-6 (bg)	0	-3	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-7 (bg)	0	-19	-58	No	16	68.75	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-16	-77.41	-29	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-8	13.18	84	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-9	2.074	57	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-1 (bg)	1.837	21	58	No	16	25	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-18 (bg)	-1.093	-5	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-2 (bg)	1.593	8	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-3 (bg)	1.928	11	58	No	16	6.25	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-4 (bg)	0.7703	17	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-5 (bg)	-0.7739	-6	-53	No	15	13.33	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-6 (bg)	2.648	21	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-7 (bg)	0.7294	6	58	No	16	18.75	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-8	61.15	99	58	Yes	16	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:09 PM

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	111	n/a	n/a	98.2	n/a	n/a	0.003368	NP Inter(NDs)
Arsenic (mg/L)	0.0014	n/a	n/a	151	n/a	n/a	78.15	n/a	n/a	0.0004328	NP Inter(NDs)
Barium (mg/L)	0.062	n/a	n/a	151	n/a	n/a	0	n/a	n/a	0.0004328	NP Inter(normality)
Beryllium (mg/L)	0.0025	n/a	n/a	151	n/a	n/a	92.72	n/a	n/a	0.0004328	NP Inter(NDs)
Cadmium (mg/L)	0.0025	n/a	n/a	143	n/a	n/a	100	n/a	n/a	0.0006523	NP Inter(NDs)
Chromium (mg/L)	0.0049	n/a	n/a	151	n/a	n/a	94.7	n/a	n/a	0.0004328	NP Inter(NDs)
Cobalt (mg/L)	0.013	n/a	n/a	150	n/a	n/a	46.67	n/a	n/a	0.0004556	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	10.4	n/a	n/a	148	n/a	n/a	0	n/a	n/a	0.0005048	NP Inter(normality)
Fluoride (mg/L)	0.284	n/a	n/a	159	n/a	n/a	48.43	n/a	n/a	0.0002871	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	135	n/a	n/a	87.41	n/a	n/a	0.0009833	NP Inter(NDs)
Lithium (mg/L)	0.009	n/a	n/a	141	n/a	n/a	49.65	n/a	n/a	0.0007228	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	127	n/a	n/a	88.98	n/a	n/a	0.001482	NP Inter(NDs)
Molybdenum (mg/L)	0.015	n/a	n/a	150	n/a	n/a	89.33	n/a	n/a	0.0004556	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	151	n/a	n/a	94.04	n/a	n/a	0.0004328	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	151	n/a	n/a	91.39	n/a	n/a	0.0004328	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 5/11/2021, 1:19 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	WGWC-19	0.05511	0.04727	0.04	Yes	19	0.05147	0.007214	0	None	ln(x)	0.01	Param.

Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	14	0.002021	0.00008018	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.002	0.0011	0.006	No	14	0.001709	0.0005998	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.0005	0.01	No	19	0.0008647	0.0002579	73.68	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	19	0.0009221	0.0001852	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	19	0.0009474	0.0001578	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00039	0.01	No	19	0.0007705	0.0003275	42.11	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0017	0.00095	0.01	No	19	0.001255	0.0005979	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.002218	0.001316	0.01	No	19	0.001767	0.0007698	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0014	0.0009	0.01	No	19	0.001166	0.000338	47.37	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-17	0.001	0.00058	0.01	No	19	0.0008316	0.0002108	47.37	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0011	0.00071	0.01	No	19	0.0009447	0.000273	52.63	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	19	0.0009974	0.0002133	84.21	None	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	19	0.0389	0.006385	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.04001	0.03165	2	No	19	0.03632	0.008138	0	None	ln(x)	0.01	Param.
Barium (mg/L)	WGWC-12	0.0214	0.015	2	No	19	0.01718	0.004267	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-13	0.05663	0.046	2	No	19	0.05132	0.009074	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04655	0.03101	2	No	19	0.03947	0.01419	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-15	0.02388	0.01998	2	No	19	0.02193	0.003332	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.068	0.034	2	No	19	0.04971	0.01622	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-17	0.019	0.011	2	No	19	0.01515	0.004036	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.005	0.0012	2	No	19	0.002804	0.001937	31.58	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.001	2	No	19	0.002962	0.001771	36.84	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.00076	2	No	19	0.002486	0.001832	31.58	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00025	0.004	No	19	0.001788	0.001076	68.42	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	19	0.00238	0.0005231	94.74	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002122	0.001547	0.004	No	19	0.001834	0.0004906	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	19	0.001387	0.001086	47.37	None	No	0.01	NP (normality)
Chromium (mg/L)	WGWC-10	0.002055	0.001385	0.1	No	19	0.001989	0.0005705	15.79	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0017	0.1	No	19	0.0019	0.0002749	78.95	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	19	0.001984	0.00005015	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	19	0.001984	0.00006882	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	19	0.001974	0.0001147	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	19	0.002026	0.0001147	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001624	0.0007953	0.013	No	19	0.001274	0.0008063	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	19	0.001612	0.0009174	36.84	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001165	0.0004782	0.013	No	19	0.0008879	0.0006689	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.00054	0.013	No	19	0.001957	0.0009403	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-14A	0.013	0.0041	0.013	No	19	0.008116	0.004234	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	19	0.002376	0.0005391	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.014	0.00026	0.013	No	19	0.006965	0.006383	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.001683	0.0007808	0.013	No	19	0.001232	0.0007708	5.263	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	19	0.001357	0.001119	47.37	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0028	0.00066	0.013	No	19	0.001889	0.0009969	47.37	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	19	0.002407	0.0004061	94.74	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4447	0.1625	10.4	No	19	0.3036	0.241	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6324	0.1607	10.4	No	19	0.3966	0.4028	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.6056	0.1662	10.4	No	19	0.3859	0.3752	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.776	0.4499	10.4	No	19	0.6129	0.2785	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8302	0.5225	10.4	No	19	0.6987	0.3093	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6444	0.2927	10.4	No	19	0.4988	0.3527	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.819	0.7854	10.4	No	19	1.396	0.9186	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5319	0.09894	10.4	No	19	0.3154	0.3697	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.511	0.126	10.4	No	19	0.3426	0.3052	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.951	1.293	10.4	No	19	1.622	0.5619	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4151	0.1467	10.4	No	19	0.2809	0.2292	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	WGWC-10	0.176	0.1288	4	No	20	0.1524	0.04163	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.1	0.045	4	No	20	0.08335	0.03667	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-12	0.09725	0.07366	4	No	20	0.09225	0.0206	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	WGWC-13	0.2939	0.2135	4	No	20	0.2537	0.07082	5	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.1	0.04	4	No	20	0.0812	0.02968	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.871	0.7709	4	No	20	0.821	0.08822	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-16	0.1736	0.07849	4	No	20	0.1598	0.1859	10	None	ln(x)	0.01	Param.
Fluoride (mg/L)	WGWC-17	0.1379	0.08713	4	No	20	0.1125	0.04468	5	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.375	0.322	4	No	20	0.3485	0.0466	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.3489	0.1996	4	No	20	0.2743	0.1315	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.521	1.198	4	No	20	1.36	0.2849	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00021	0.015	No	17	0.0006853	0.0003923	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	17	0.0009018	0.0002227	82.35	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00047	0.015	No	17	0.0007529	0.0002551	47.06	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00031	0.015	No	17	0.0008112	0.0003525	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.015	No	17	0.0009588	0.0001698	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	17	0.0008982	0.0002873	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	17	0.0009135	0.0002452	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00017	0.015	No	17	0.0007994	0.0003729	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	17	0.0009494	0.0002086	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01493	0.007503	0.04	No	19	0.01177	0.007138	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	19	0.004437	0.001341	84.21	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007846	0.006125	0.04	No	19	0.006821	0.001782	5.263	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0037	0.04	No	19	0.004421	0.001082	73.68	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.04	No	19	0.004111	0.001325	63.16	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.007289	0.005532	0.04	No	19	0.006411	0.001501	10.53	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01057	0.006798	0.04	No	19	0.008684	0.003222	5.263	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005639	0.004704	0.04	No	19	0.005211	0.0008379	5.263	None	ln(x)	0.01	Param.
Lithium (mg/L)	WGWC-19	0.05511	0.04727	0.04	Yes	19	0.05147	0.007214	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	WGWC-8	0.018	0.013	0.04	No	19	0.01724	0.0103	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03842	0.03279	0.04	No	19	0.03561	0.004809	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	19	0.01352	0.004439	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	19	0.01357	0.004289	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0009	0.1	No	19	0.01071	0.006545	68.42	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0016	0.1	No	19	0.004216	0.004868	15.79	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	19	0.01426	0.003212	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.006785	0.003297	0.1	No	19	0.005316	0.003485	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.005469	0.002641	0.1	No	19	0.004279	0.002553	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.1	No	19	0.006347	0.006791	36.84	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.0071	0.003	0.1	No	19	0.005396	0.003456	0	None	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	19	0.004753	0.001076	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	19	0.004763	0.001035	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	19	0.004847	0.0006653	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	19	0.004753	0.001078	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	19	0.004763	0.001032	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.0111	0.005817	0.05	No	19	0.008461	0.004514	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	19	0.004756	0.001064	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.003858	0.003102	0.05	No	19	0.003504	0.0006592	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	WGWC-9	0.002823	0.002196	0.05	No	19	0.002509	0.0005347	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	19	0.0009518	0.0002099	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	19	0.0009558	0.0001927	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00013	0.002	No	19	0.0005142	0.0004267	42.11	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00015	0.002	No	19	0.0004768	0.0004122	36.84	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	19	0.0009568	0.0001881	94.74	None	No	0.01	NP (NDs)

State Confidence Intervals - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:14 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	WGWC-19	0.05511	0.04727	0.009	Yes	19	0.05147	0.007214	0	None	In(x)	0.01	Param.
Lithium (mg/L)	WGWC-8	0.018	0.013	0.009	Yes	19	0.01724	0.0103	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03842	0.03279	0.009	Yes	19	0.03561	0.004809	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	14	0.002021	0.00008018	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.002	0.0011	0.006	No	14	0.001709	0.0005998	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.0005	0.01	No	19	0.0008647	0.0002579	73.68	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	19	0.0009221	0.0001852	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	19	0.0009474	0.0001578	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00039	0.01	No	19	0.0007705	0.0003275	42.11	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0017	0.00095	0.01	No	19	0.001255	0.0005979	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.002218	0.001316	0.01	No	19	0.001767	0.0007698	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0014	0.0009	0.01	No	19	0.001166	0.000338	47.37	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-17	0.001	0.00058	0.01	No	19	0.0008316	0.0002108	47.37	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0011	0.00071	0.01	No	19	0.0009447	0.000273	52.63	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	19	0.0009974	0.0002133	84.21	None	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	19	0.0389	0.006385	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.04001	0.03165	2	No	19	0.03632	0.008138	0	None	ln(x)	0.01	Param.
Barium (mg/L)	WGWC-12	0.0214	0.015	2	No	19	0.01718	0.004267	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-13	0.05663	0.046	2	No	19	0.05132	0.009074	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04655	0.03101	2	No	19	0.03947	0.01419	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-15	0.02388	0.01998	2	No	19	0.02193	0.003332	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.068	0.034	2	No	19	0.04971	0.01622	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-17	0.019	0.011	2	No	19	0.01515	0.004036	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.005	0.0012	2	No	19	0.002804	0.001937	31.58	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.001	2	No	19	0.002962	0.001771	36.84	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.00076	2	No	19	0.002486	0.001832	31.58	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00025	0.004	No	19	0.001788	0.001076	68.42	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	19	0.00238	0.0005231	94.74	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002122	0.001547	0.004	No	19	0.001834	0.0004906	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	19	0.001387	0.001086	47.37	None	No	0.01	NP (normality)
Chromium (mg/L)	WGWC-10	0.002055	0.001385	0.1	No	19	0.001989	0.0005705	15.79	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0017	0.1	No	19	0.0019	0.0002749	78.95	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	19	0.001984	0.00005015	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	19	0.001984	0.00006882	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	19	0.001974	0.0001147	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	19	0.002026	0.0001147	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001624	0.0007953	0.013	No	19	0.001274	0.0008063	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	19	0.001612	0.0009174	36.84	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001165	0.0004782	0.013	No	19	0.0008879	0.0006689	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.00054	0.013	No	19	0.001957	0.0009403	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-14A	0.013	0.0041	0.013	No	19	0.008116	0.004234	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	19	0.002376	0.0005391	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.014	0.00026	0.013	No	19	0.006965	0.006383	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.001683	0.0007808	0.013	No	19	0.001232	0.0007708	5.263	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	19	0.001357	0.001119	47.37	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0028	0.00066	0.013	No	19	0.001889	0.0009969	47.37	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	19	0.002407	0.0004061	94.74	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4447	0.1625	10.4	No	19	0.3036	0.241	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6324	0.1607	10.4	No	19	0.3966	0.4028	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.6056	0.1662	10.4	No	19	0.3859	0.3752	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.776	0.4499	10.4	No	19	0.6129	0.2785	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8302	0.5225	10.4	No	19	0.6987	0.3093	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6444	0.2927	10.4	No	19	0.4988	0.3527	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.819	0.7854	10.4	No	19	1.396	0.9186	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5319	0.09894	10.4	No	19	0.3154	0.3697	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.511	0.126	10.4	No	19	0.3426	0.3052	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.951	1.293	10.4	No	19	1.622	0.5619	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4151	0.1467	10.4	No	19	0.2809	0.2292	0	None	No	0.01	Param.

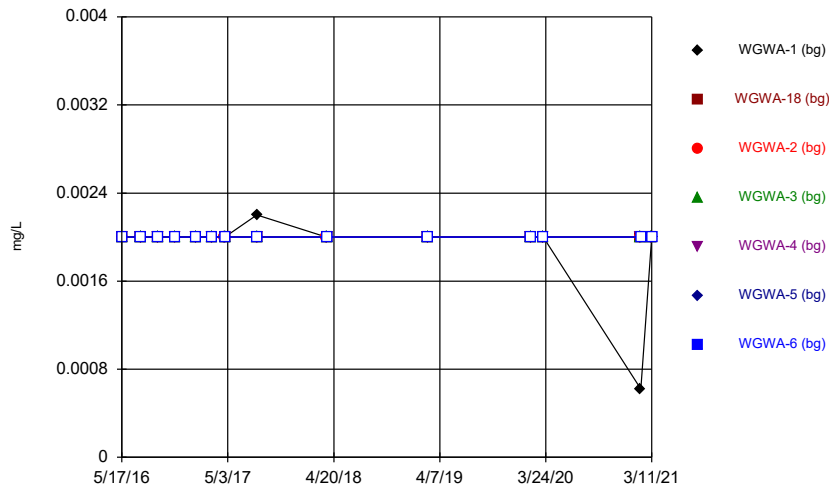
State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	WGWC-10	0.176	0.1288	4	No	20	0.1524	0.04163	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.1	0.045	4	No	20	0.08335	0.03667	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-12	0.09725	0.07366	4	No	20	0.09225	0.0206	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	WGWC-13	0.2939	0.2135	4	No	20	0.2537	0.07082	5	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.1	0.04	4	No	20	0.0812	0.02968	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.871	0.7709	4	No	20	0.821	0.08822	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-16	0.1736	0.07849	4	No	20	0.1598	0.1859	10	None	ln(x)	0.01	Param.
Fluoride (mg/L)	WGWC-17	0.1379	0.08713	4	No	20	0.1125	0.04468	5	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.375	0.322	4	No	20	0.3485	0.0466	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.3489	0.1996	4	No	20	0.2743	0.1315	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.521	1.198	4	No	20	1.36	0.2849	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00021	0.001	No	17	0.0006853	0.0003923	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.001	No	17	0.0009018	0.0002227	82.35	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00047	0.001	No	17	0.0007529	0.0002551	47.06	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00031	0.001	No	17	0.0008112	0.0003525	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.001	No	17	0.0009588	0.0001698	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.001	No	17	0.0008982	0.0002873	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.001	No	17	0.0009135	0.0002452	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00017	0.001	No	17	0.0007994	0.0003729	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.001	No	17	0.0009494	0.0002086	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01493	0.007503	0.009	No	19	0.01177	0.007138	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.009	No	19	0.004437	0.001341	84.21	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007846	0.006125	0.009	No	19	0.006821	0.001782	5.263	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0037	0.009	No	19	0.004421	0.001082	73.68	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.009	No	19	0.004111	0.001325	63.16	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.007289	0.005532	0.009	No	19	0.006411	0.001501	10.53	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01057	0.006798	0.009	No	19	0.008684	0.003222	5.263	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005639	0.004704	0.009	No	19	0.005211	0.0008379	5.263	None	ln(x)	0.01	Param.
Lithium (mg/L)	WGWC-19	0.05511	0.04727	0.009	Yes	19	0.05147	0.007214	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	WGWC-8	0.018	0.013	0.009	Yes	19	0.01724	0.0103	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03842	0.03279	0.009	Yes	19	0.03561	0.004809	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.015	No	19	0.01352	0.004439	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.015	No	19	0.01357	0.004289	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0009	0.015	No	19	0.01071	0.006545	68.42	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0016	0.015	No	19	0.004216	0.004868	15.79	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.015	No	19	0.01426	0.003212	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.006785	0.003297	0.015	No	19	0.005316	0.003485	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.005469	0.002641	0.015	No	19	0.004279	0.002553	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.015	No	19	0.006347	0.006791	36.84	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.0071	0.003	0.015	No	19	0.005396	0.003456	0	None	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	19	0.004753	0.001076	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	19	0.004763	0.001035	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	19	0.004847	0.0006653	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	19	0.004753	0.001078	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	19	0.004763	0.001032	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.0111	0.005817	0.05	No	19	0.008461	0.004514	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	19	0.004756	0.001064	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.003858	0.003102	0.05	No	19	0.003504	0.0006592	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	WGWC-9	0.002823	0.002196	0.05	No	19	0.002509	0.0005347	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	19	0.0009518	0.0002099	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	19	0.0009558	0.0001927	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00013	0.002	No	19	0.0005142	0.0004267	42.11	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00015	0.002	No	19	0.0004768	0.0004122	36.84	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	19	0.0009568	0.0001881	94.74	None	No	0.01	NP (NDs)

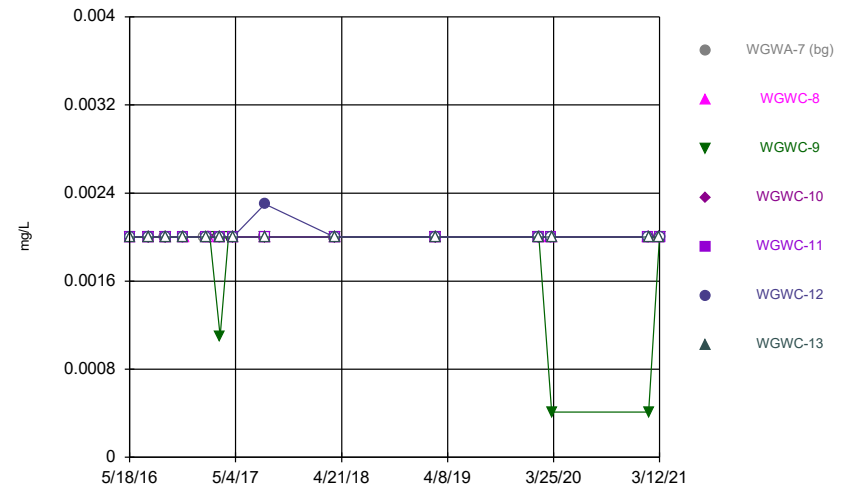
FIGURE A.

Time Series



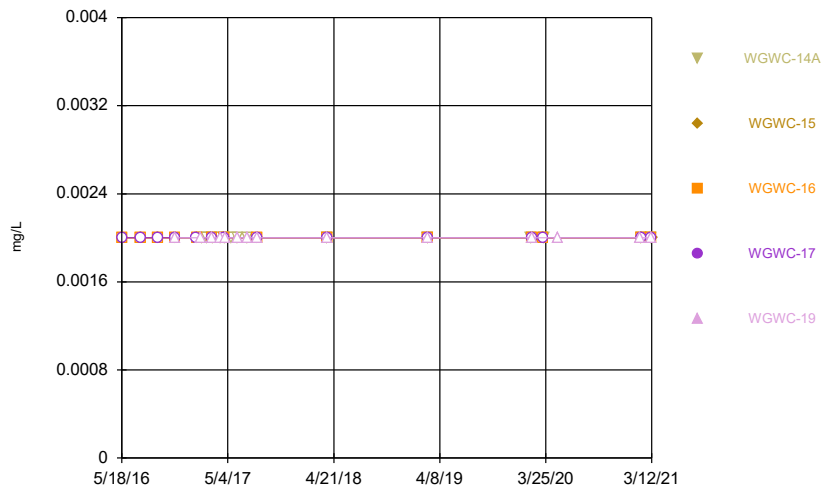
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



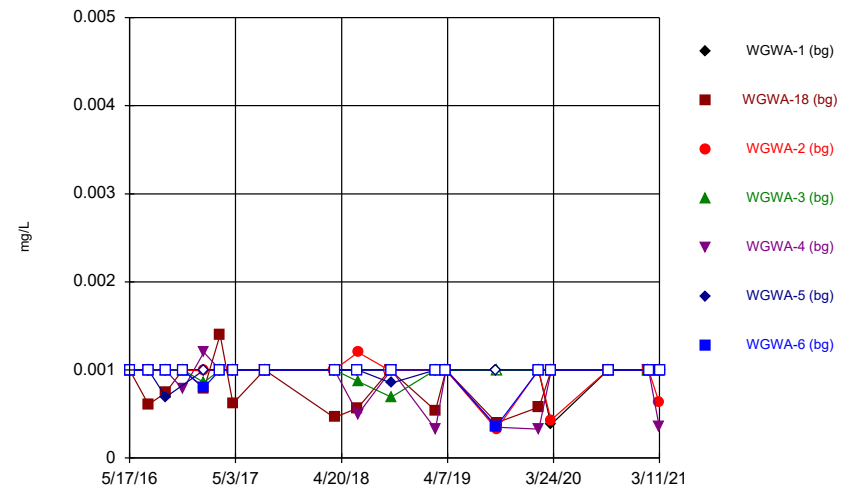
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Time Series



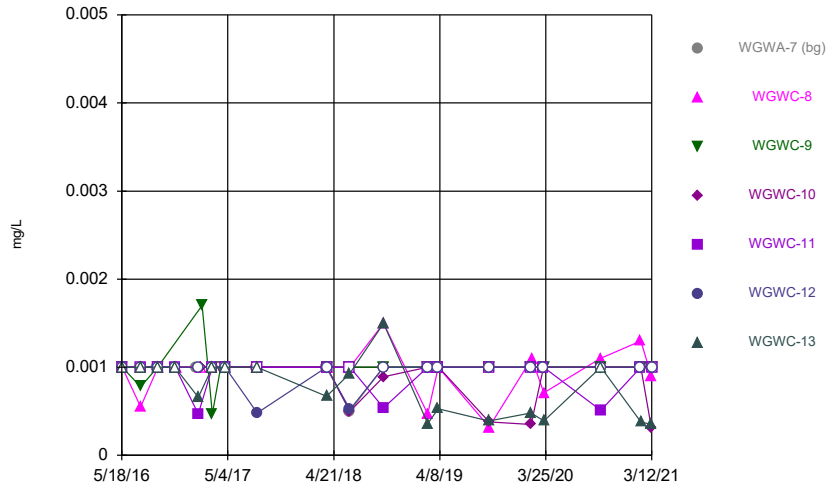
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Time Series



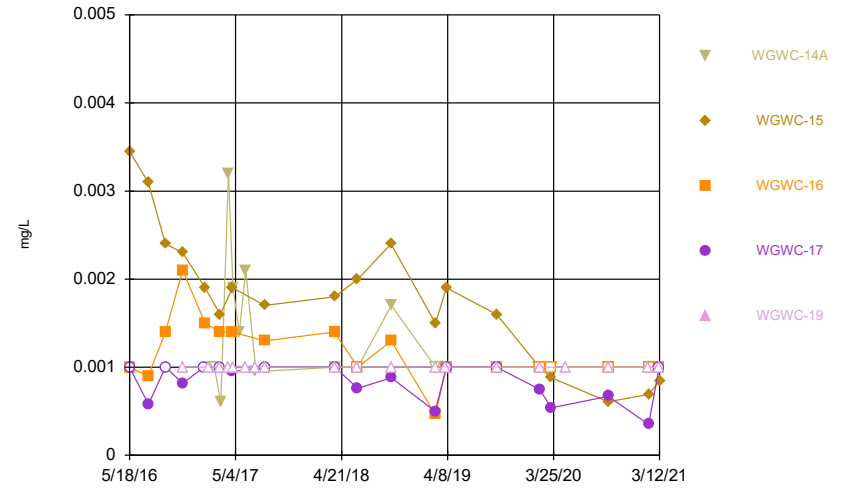
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Time Series



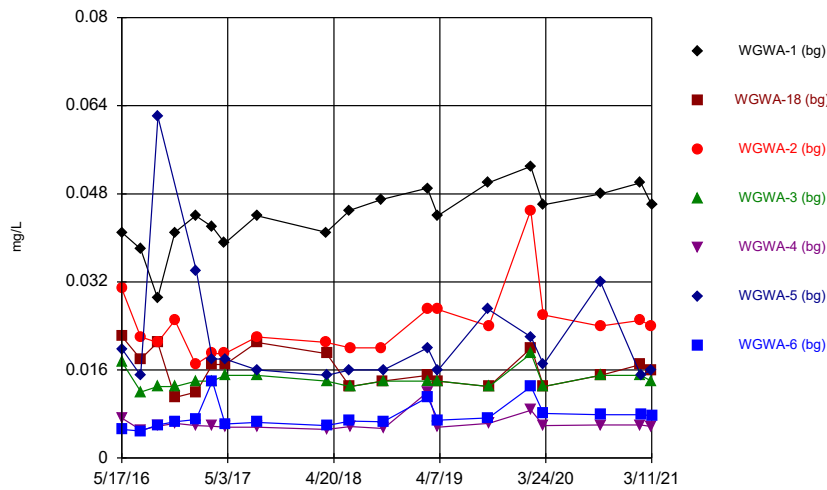
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Time Series



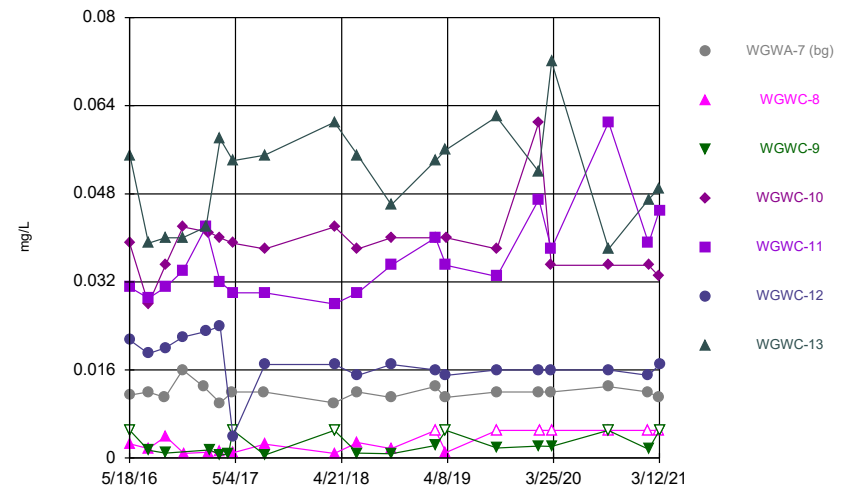
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Time Series



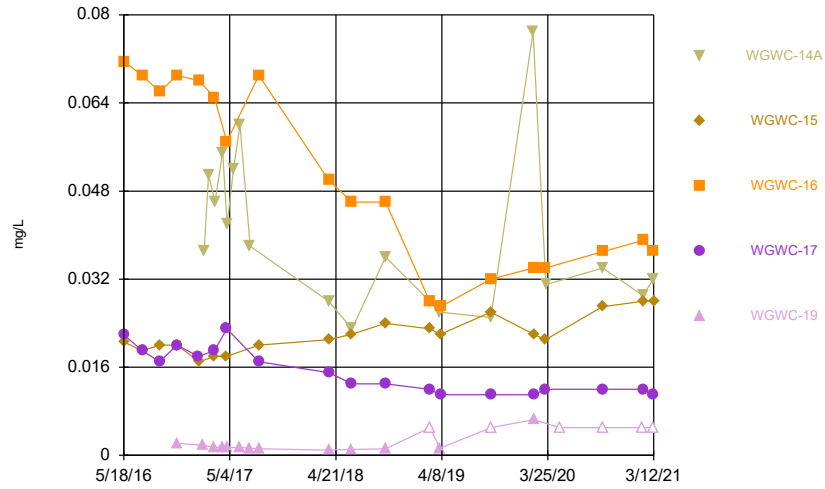
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Time Series



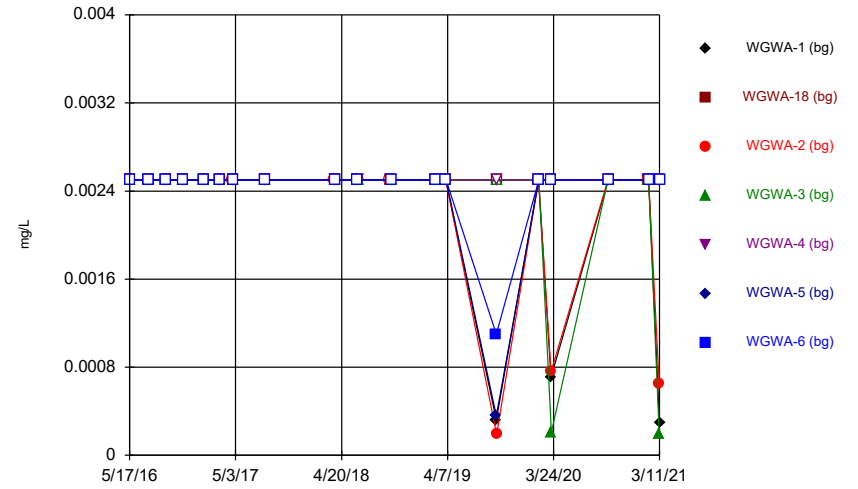
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Time Series



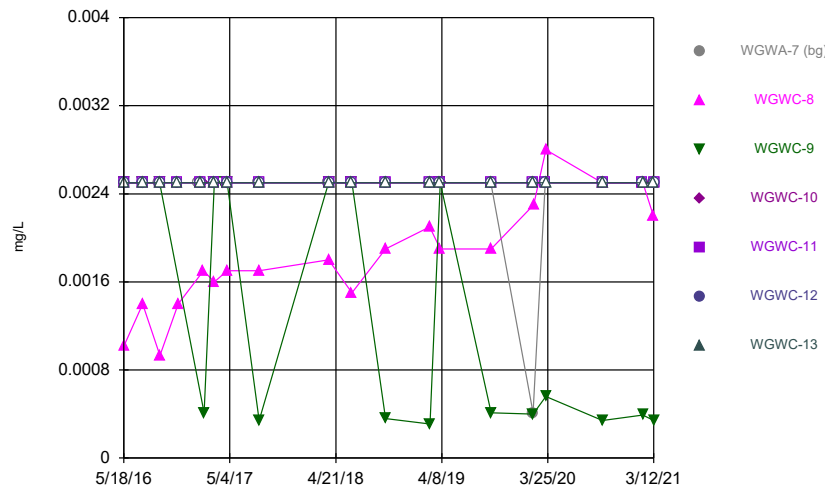
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Time Series



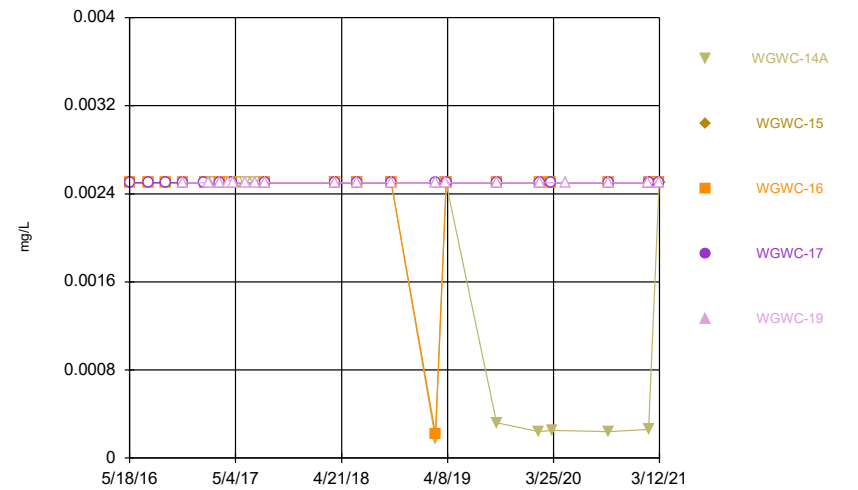
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Time Series



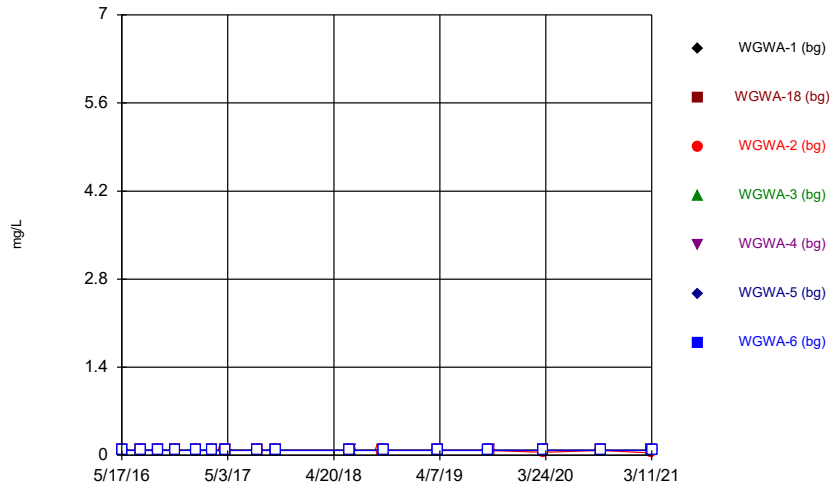
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Time Series



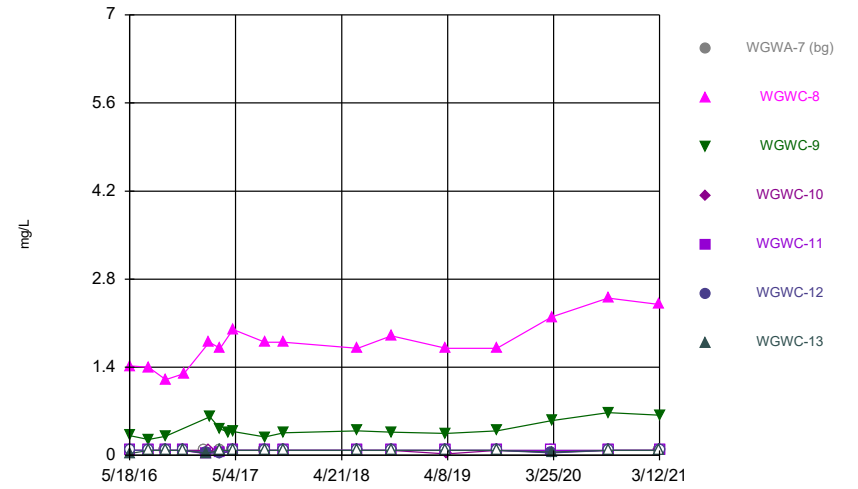
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Time Series



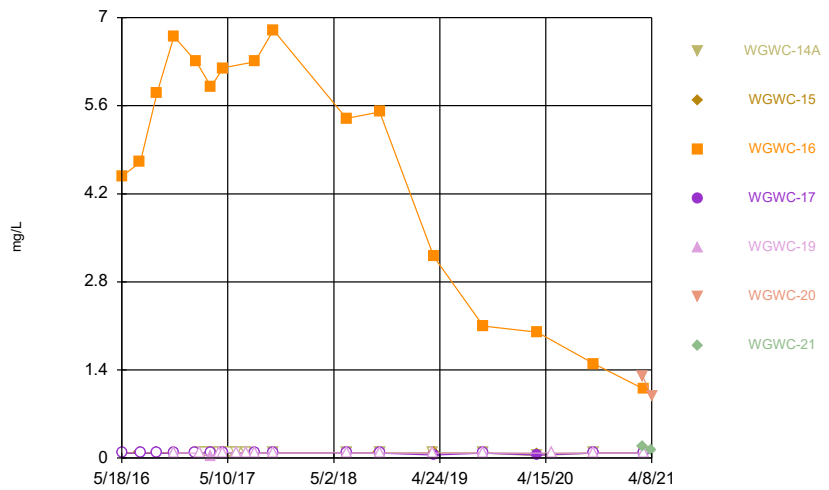
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Time Series



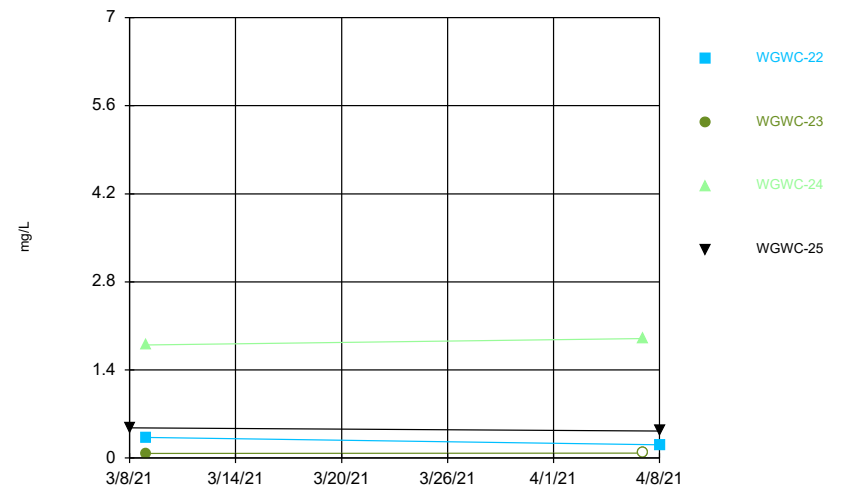
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Time Series



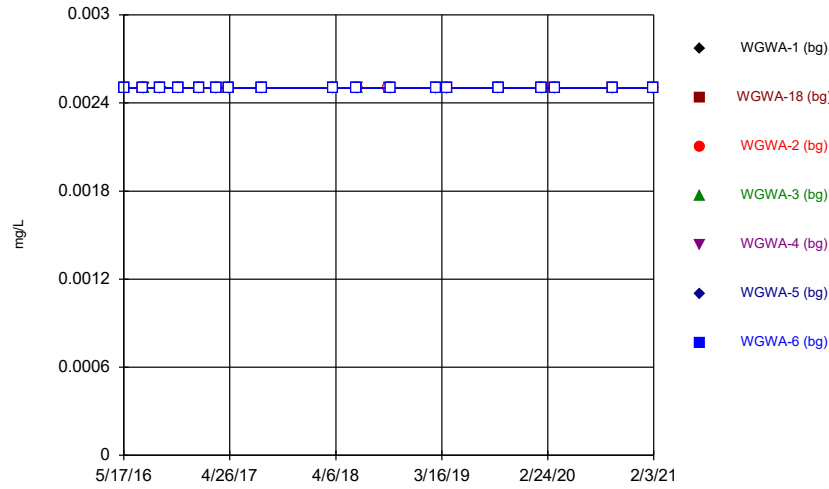
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Time Series



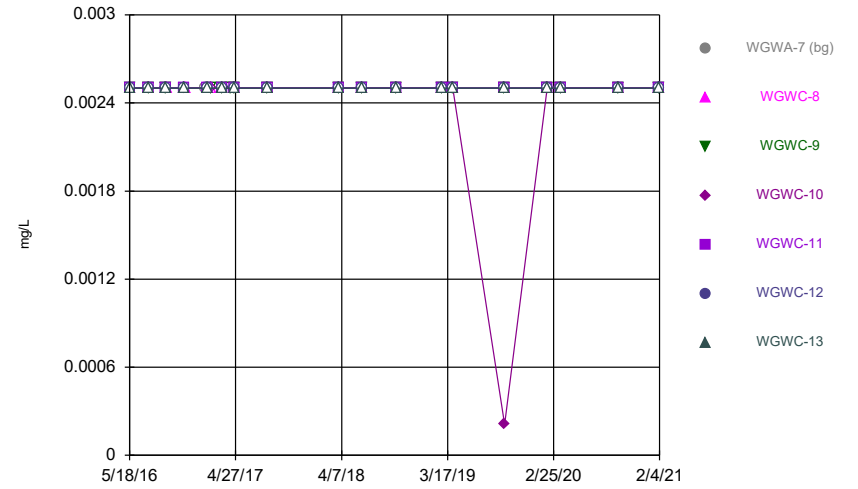
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Time Series



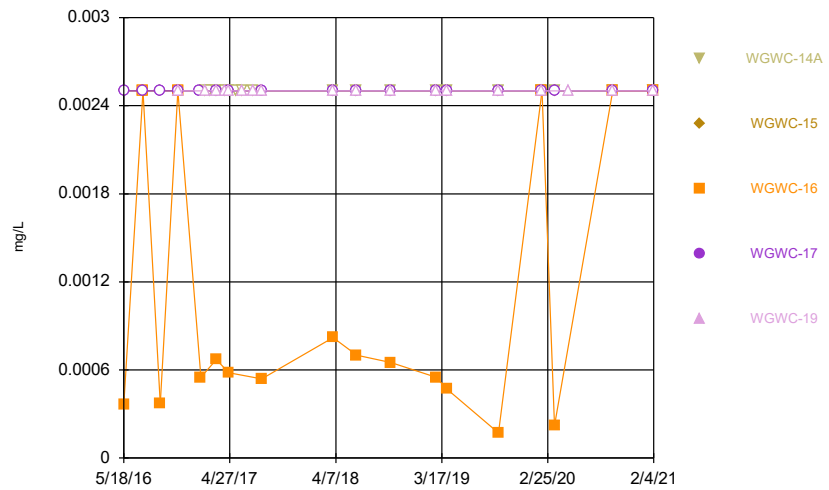
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



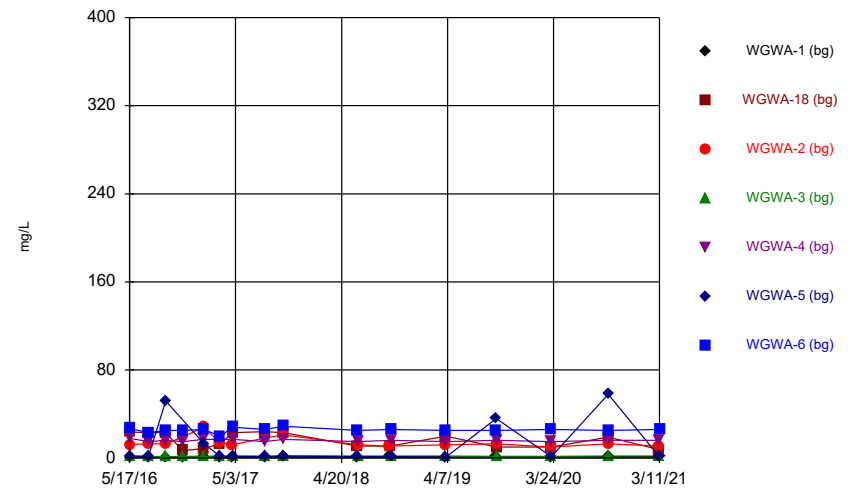
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



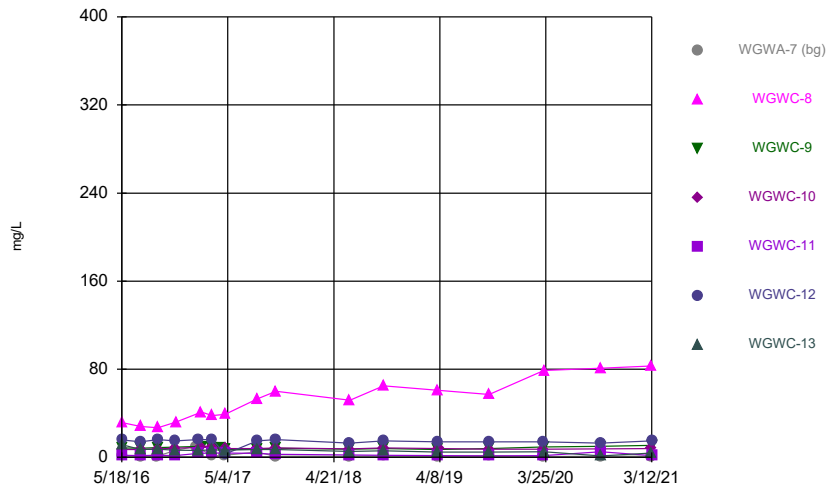
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



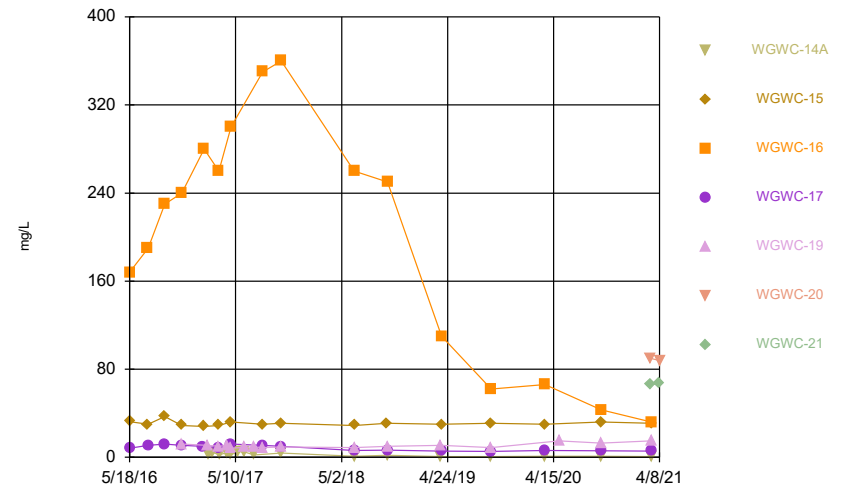
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



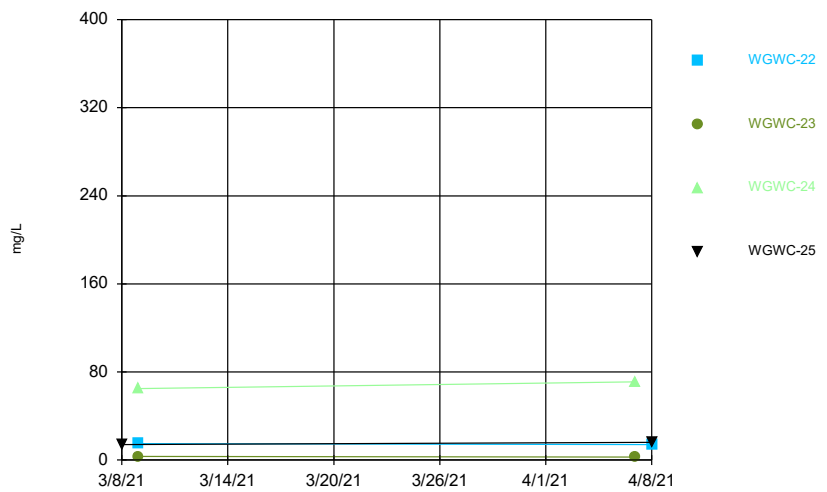
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Time Series



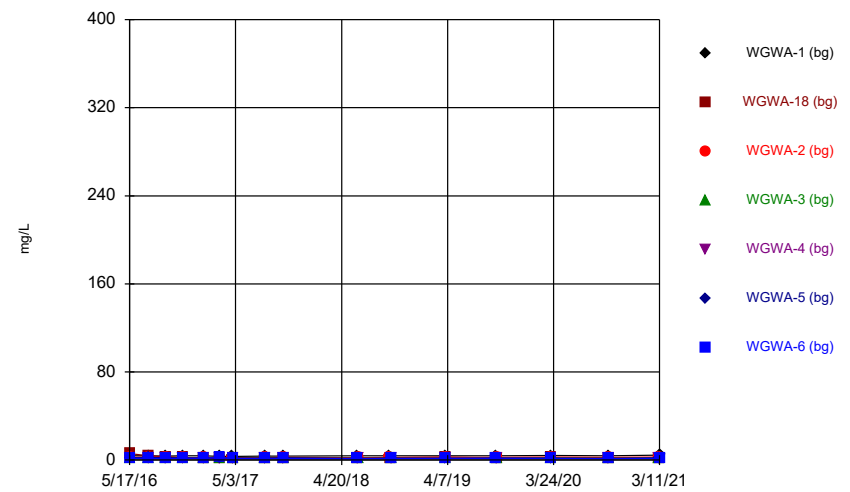
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Time Series



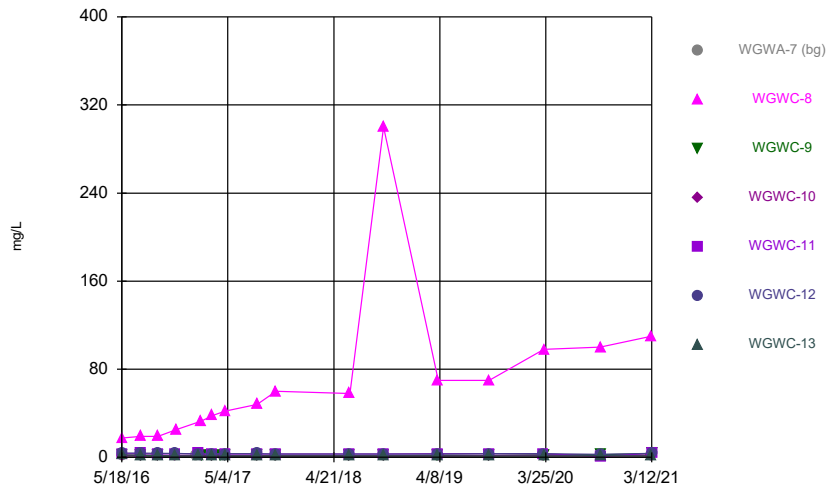
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



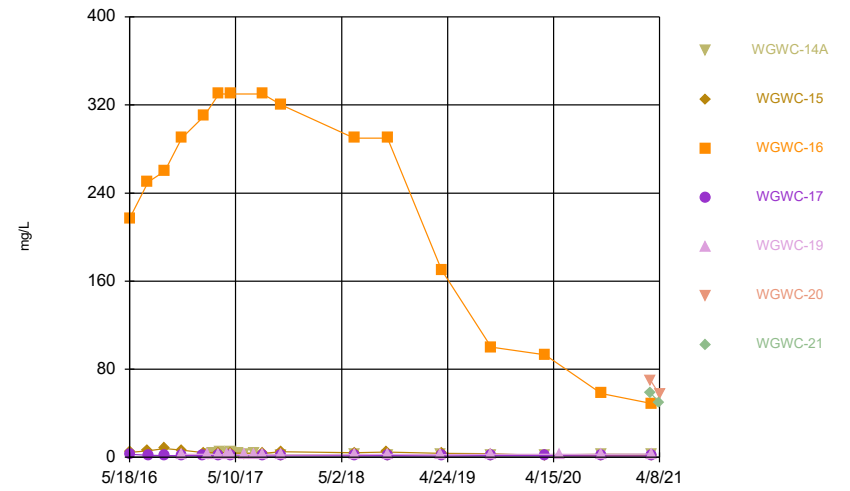
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



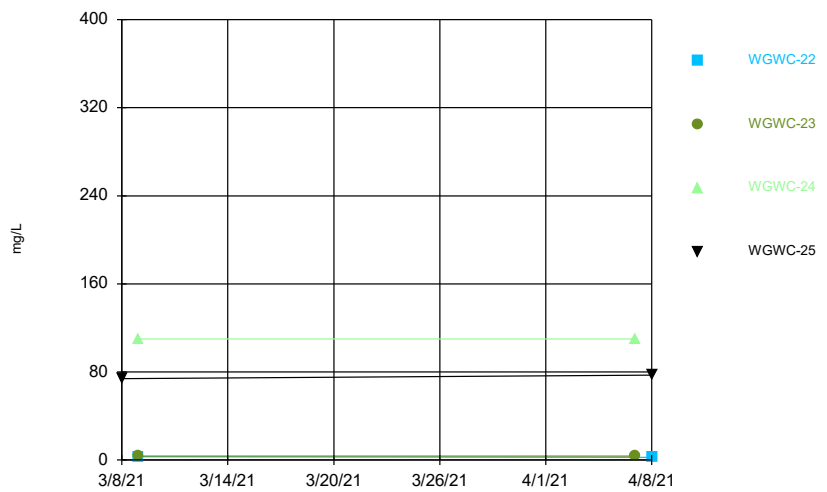
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Time Series



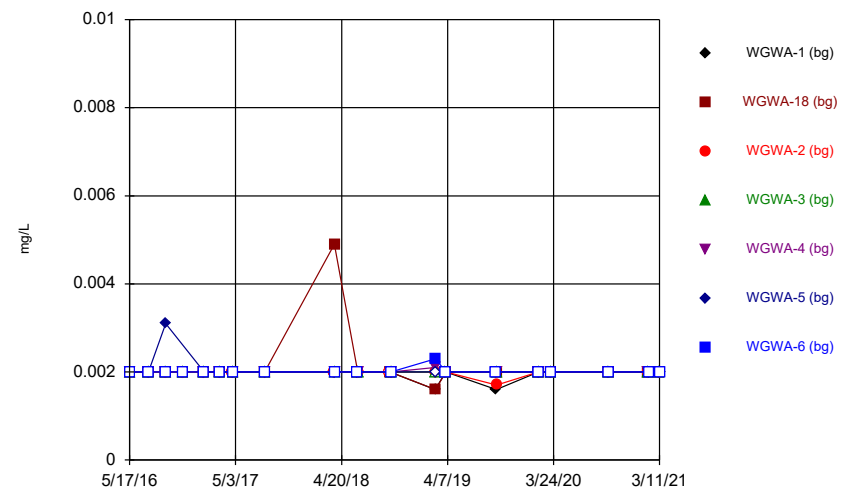
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Time Series



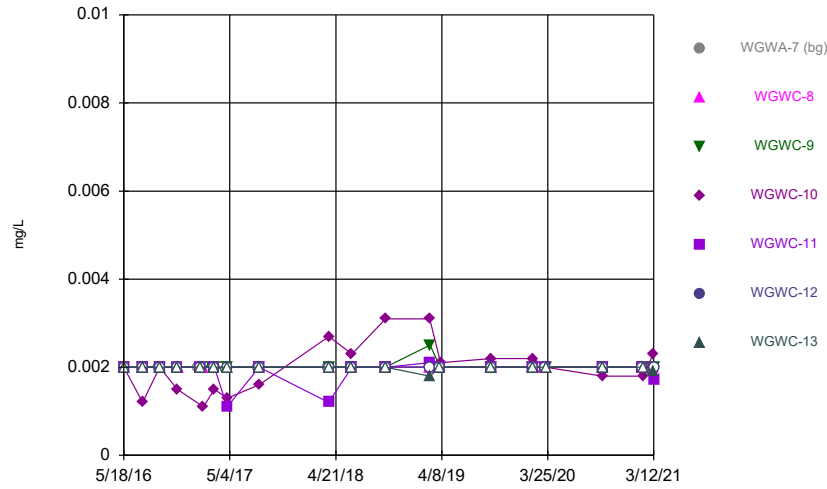
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Time Series



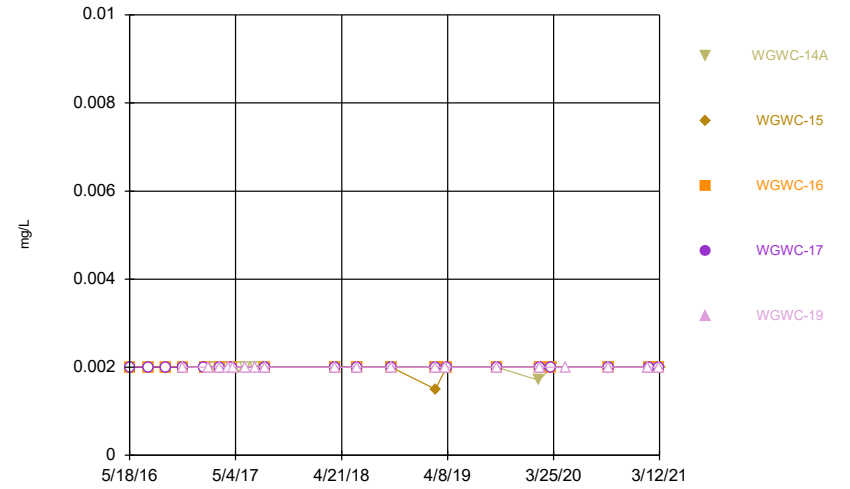
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



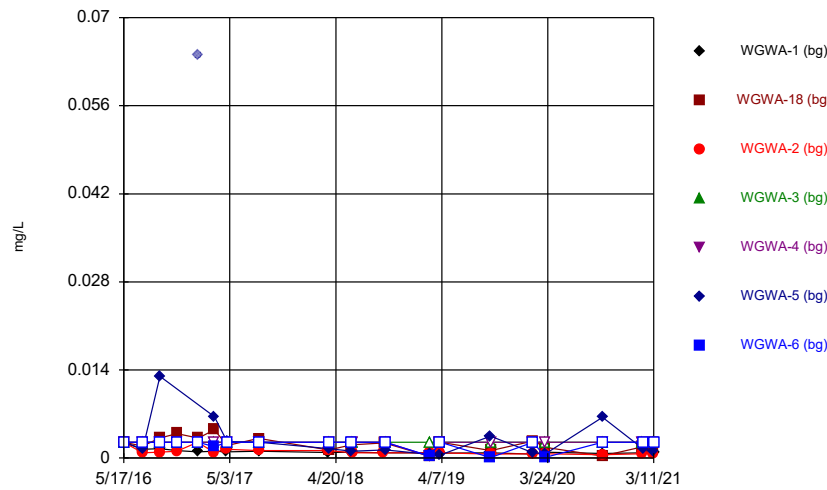
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Time Series



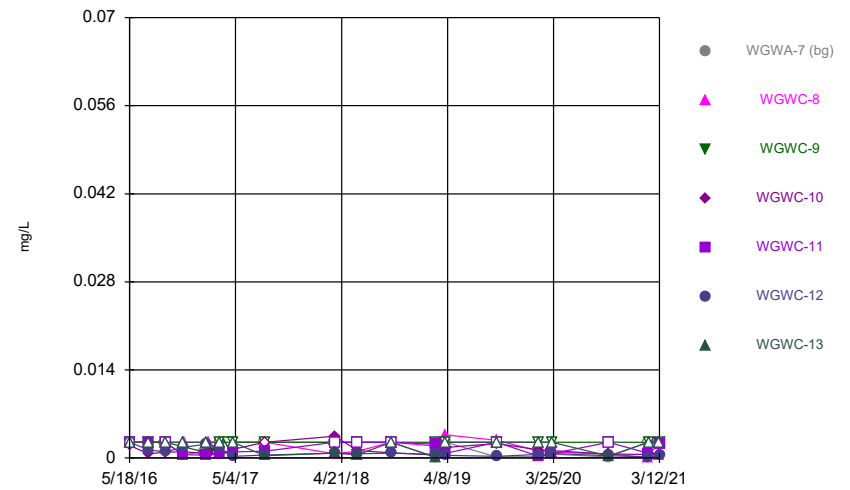
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Time Series



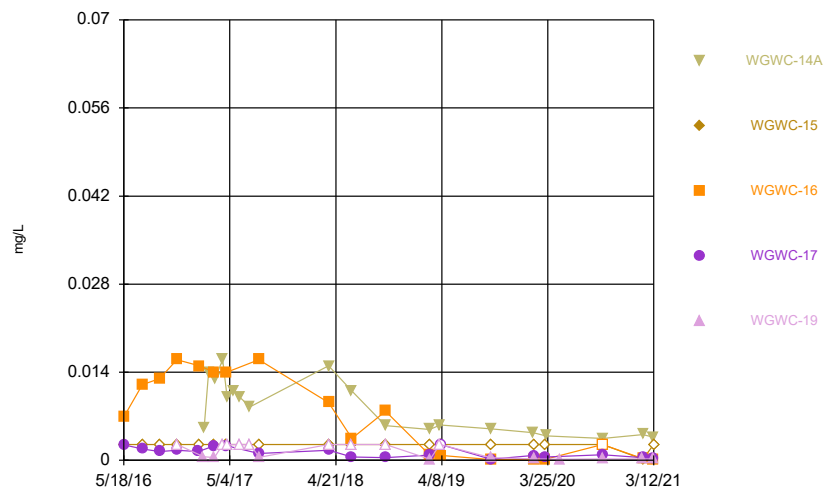
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



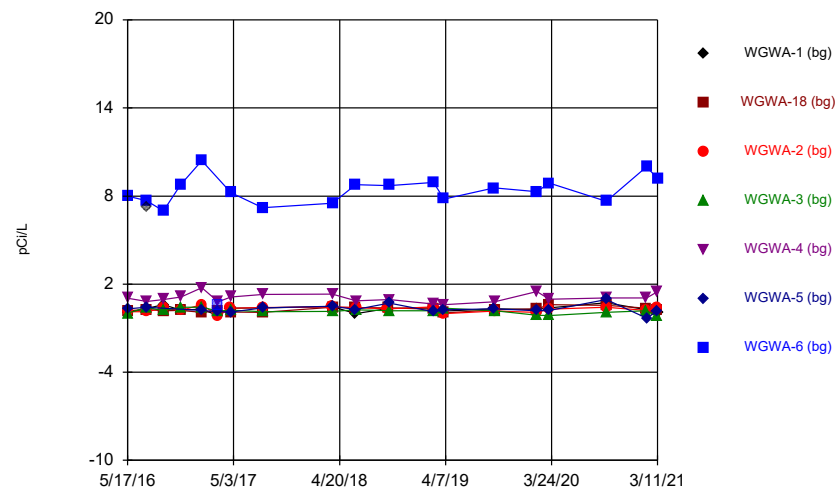
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Time Series



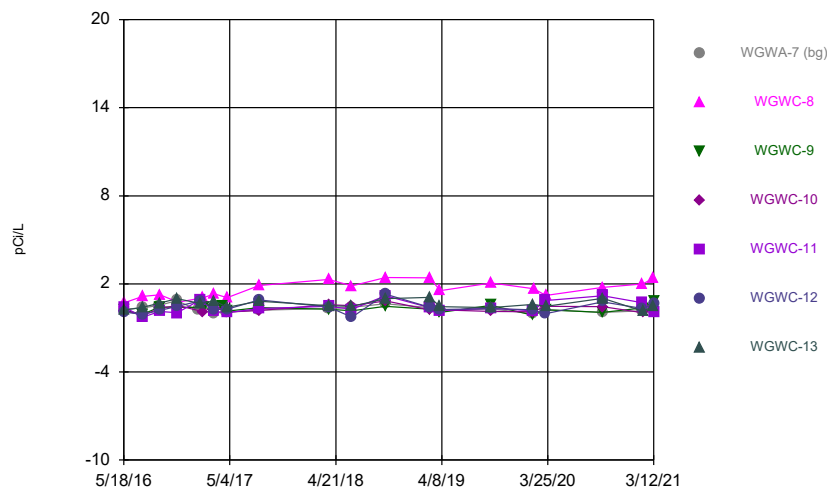
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Time Series



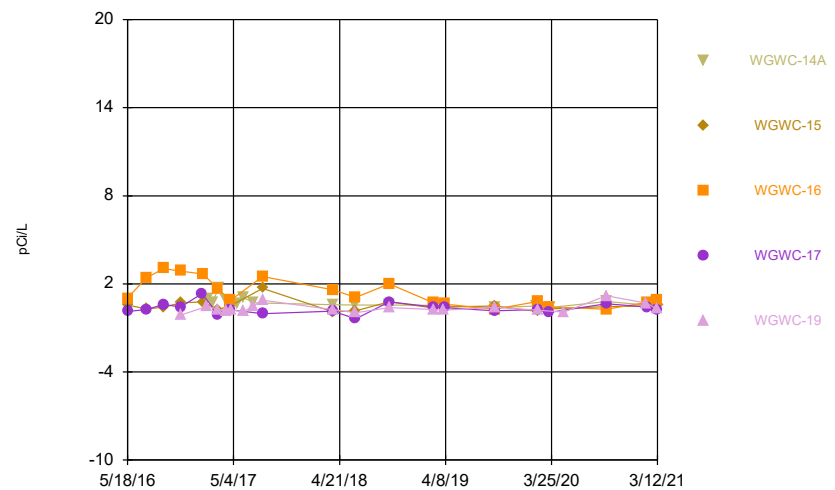
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



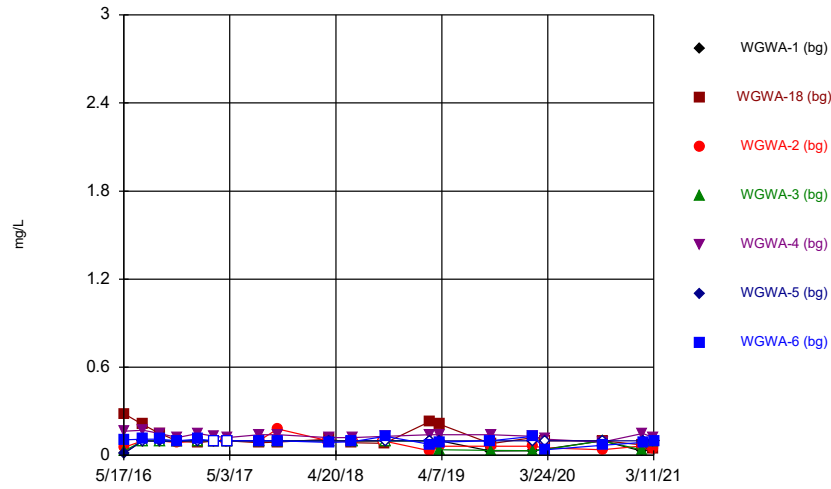
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



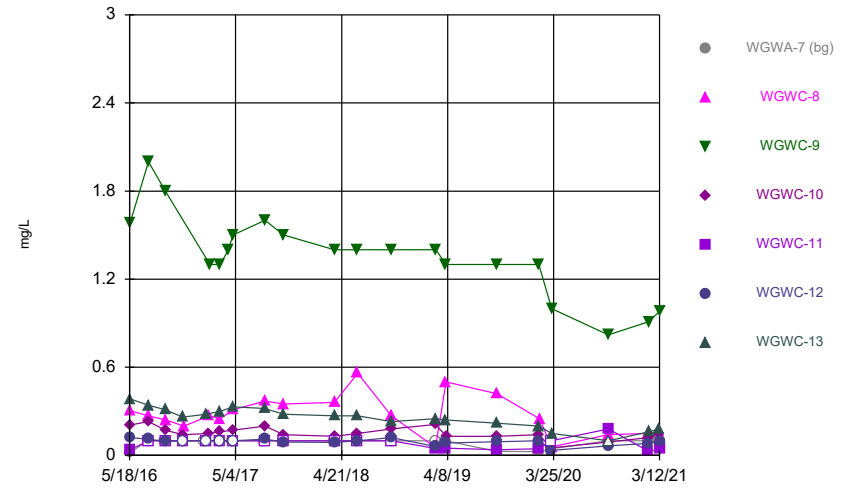
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Time Series



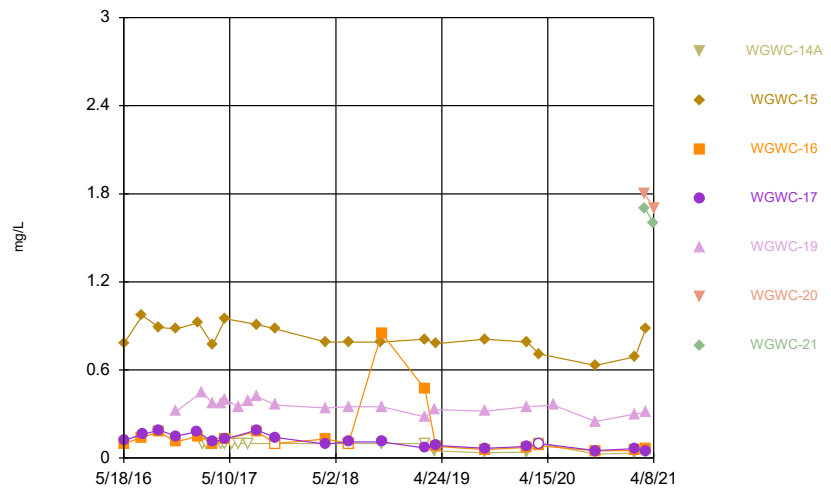
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Time Series



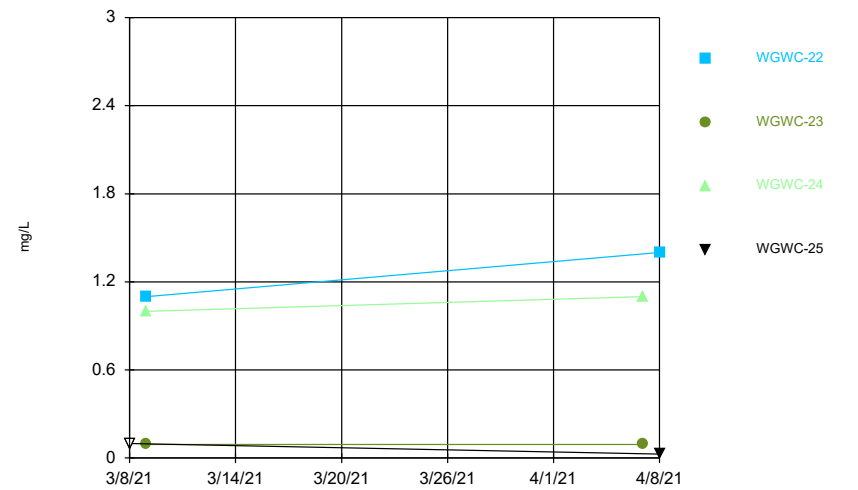
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Time Series



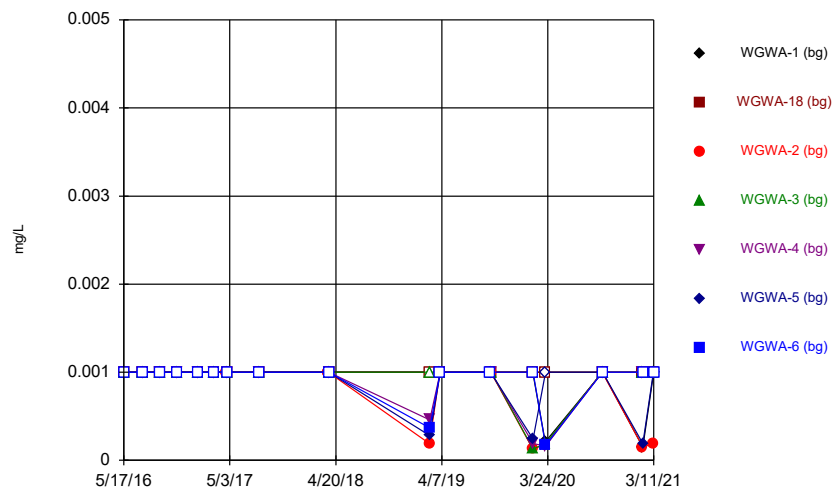
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Time Series



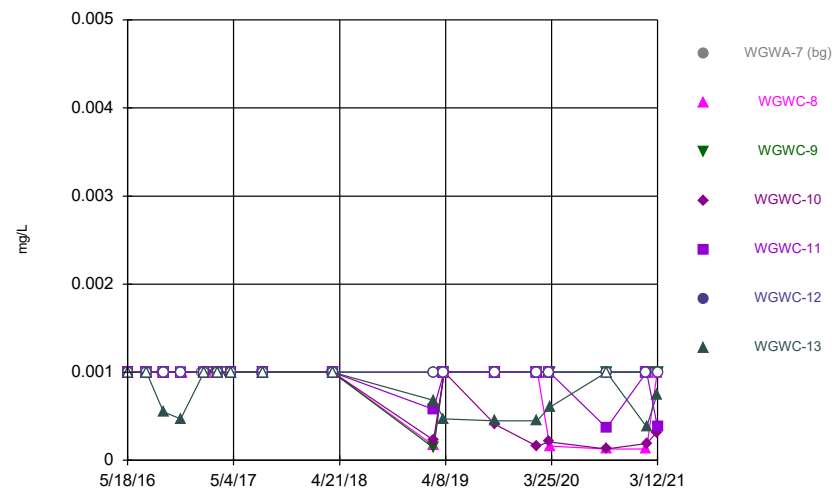
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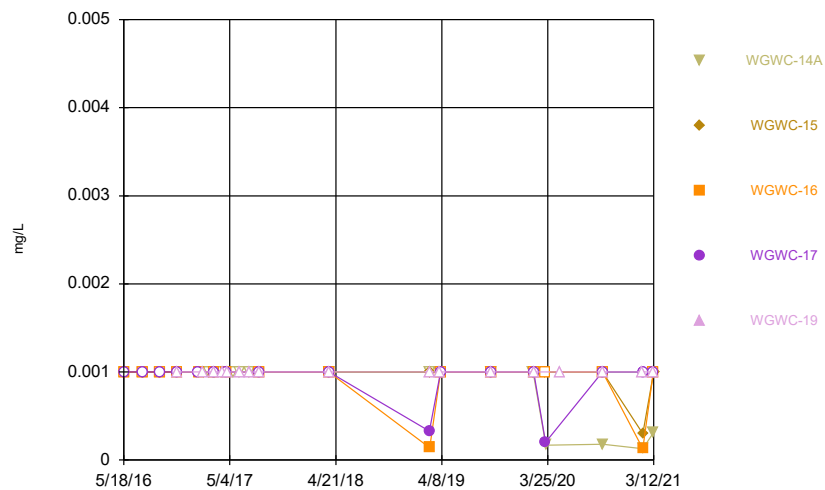
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Time Series



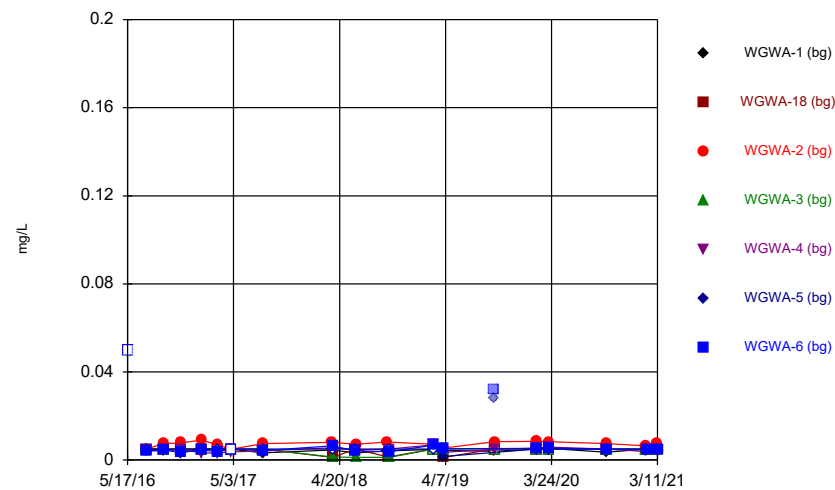
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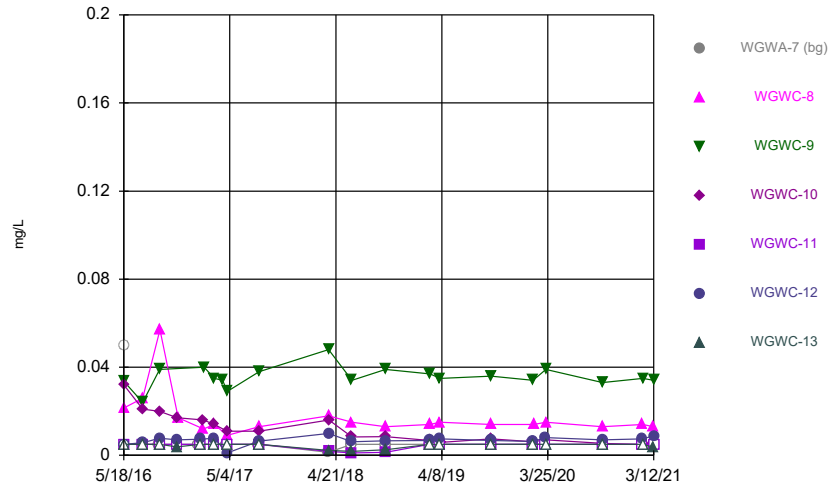
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Time Series



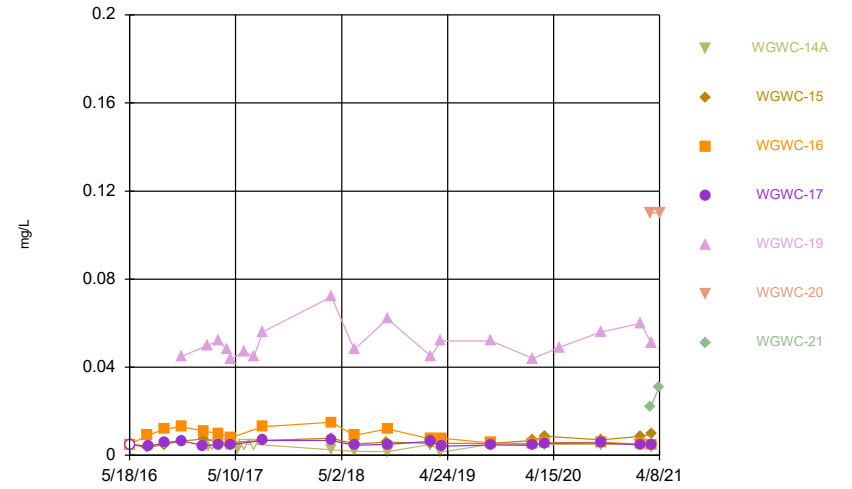
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Time Series



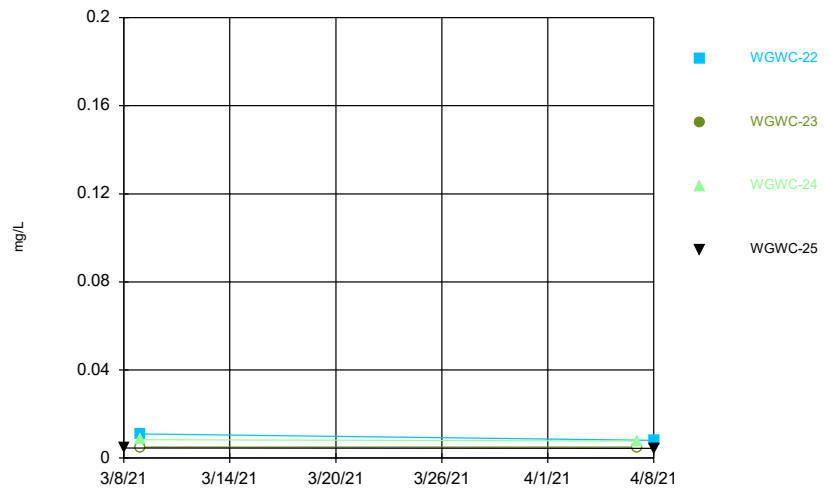
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Time Series



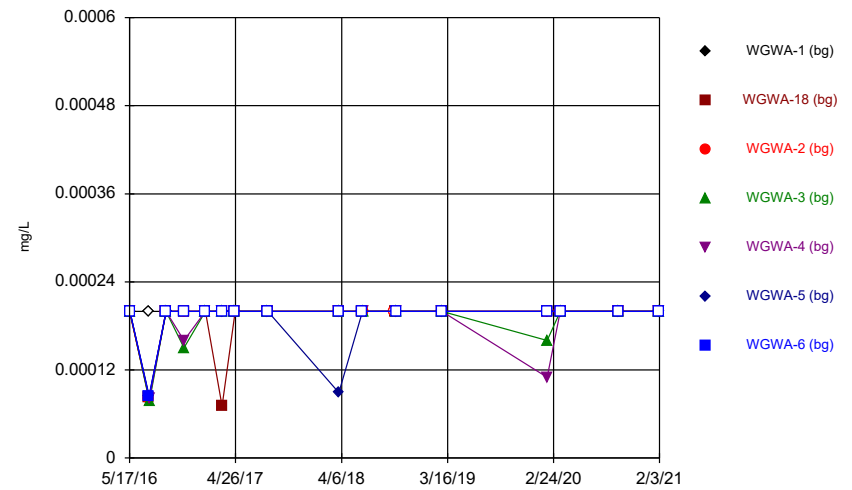
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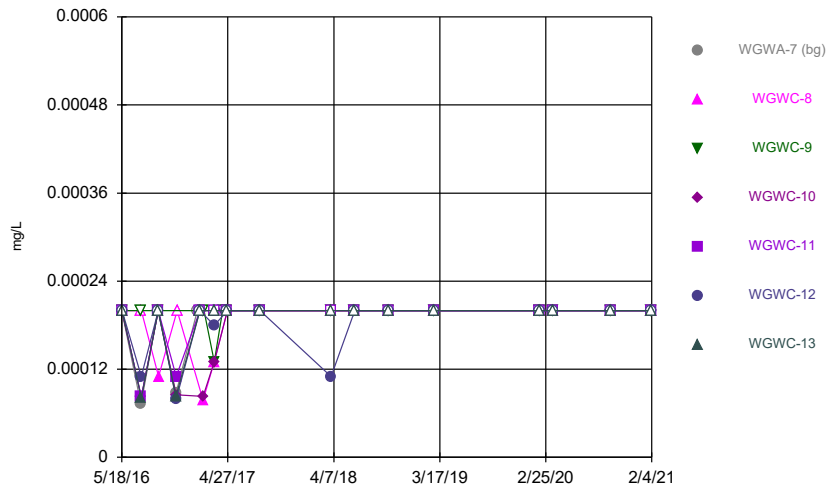
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Time Series



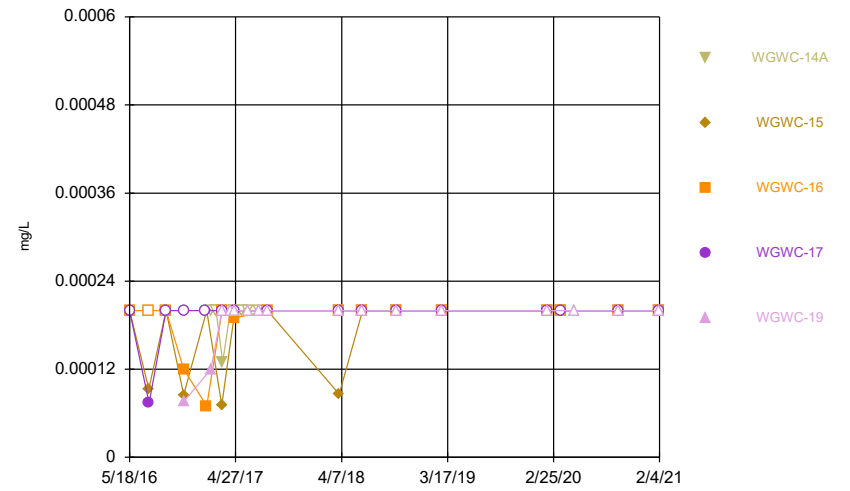
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



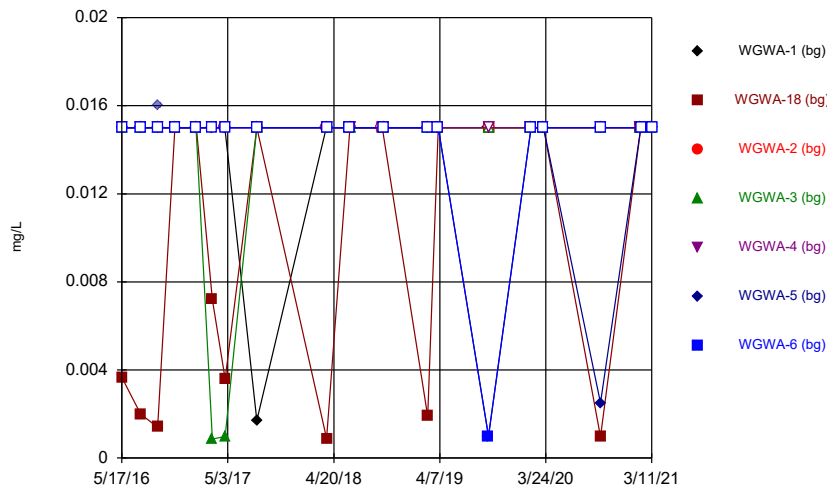
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Time Series



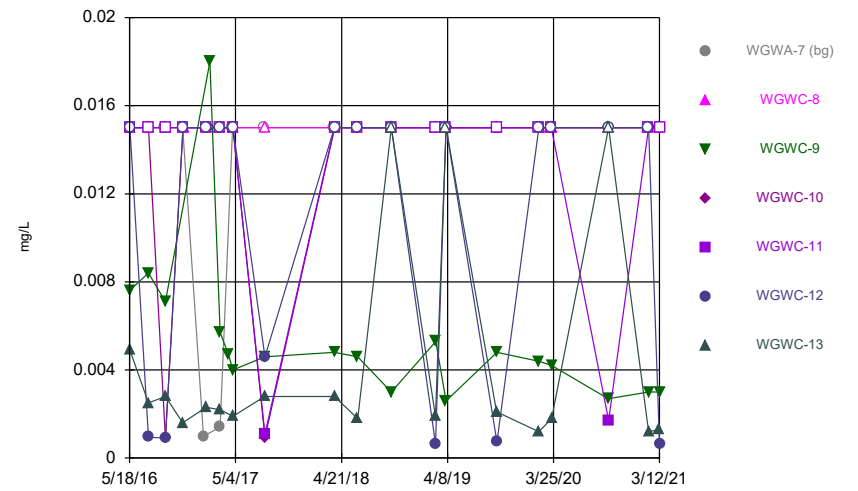
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Time Series



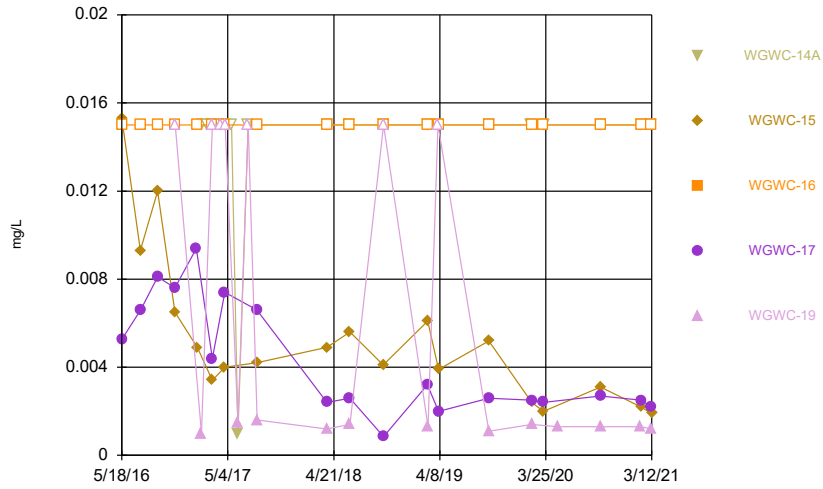
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



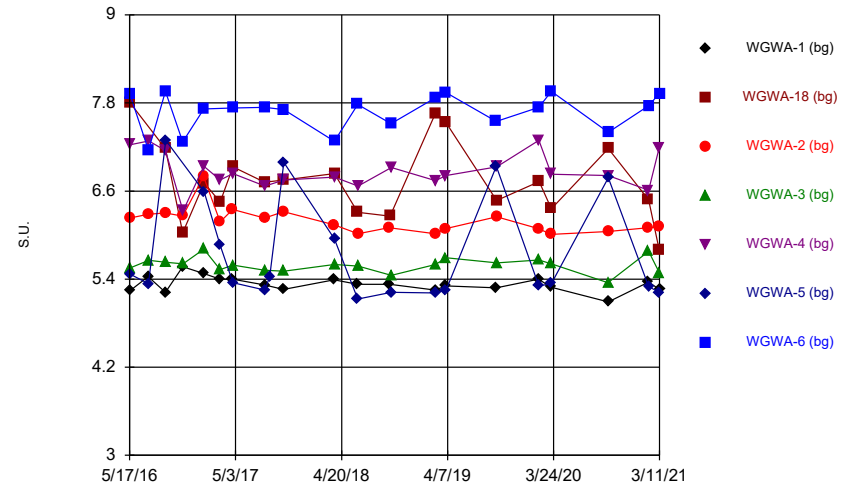
Constituent: Molybdenum Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



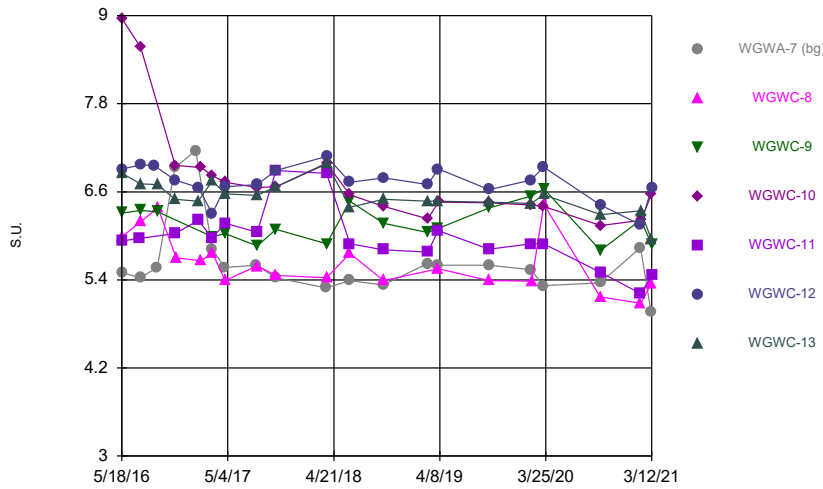
Constituent: Molybdenum Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



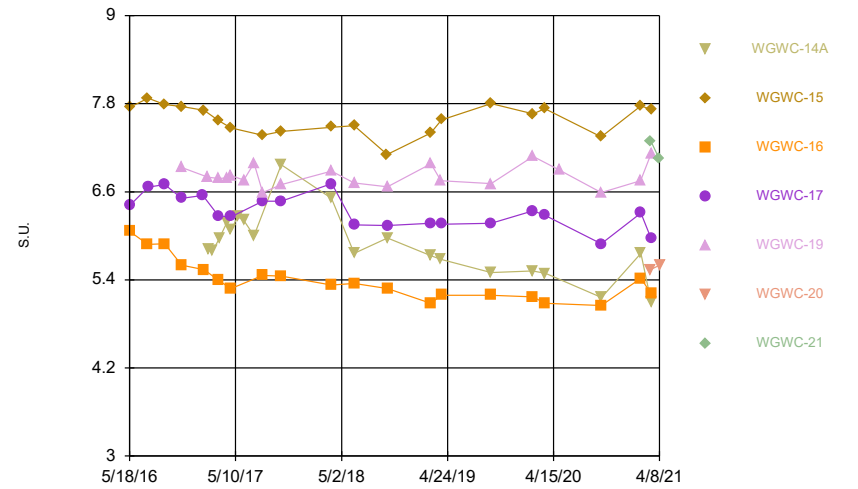
Constituent: pH, Field Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



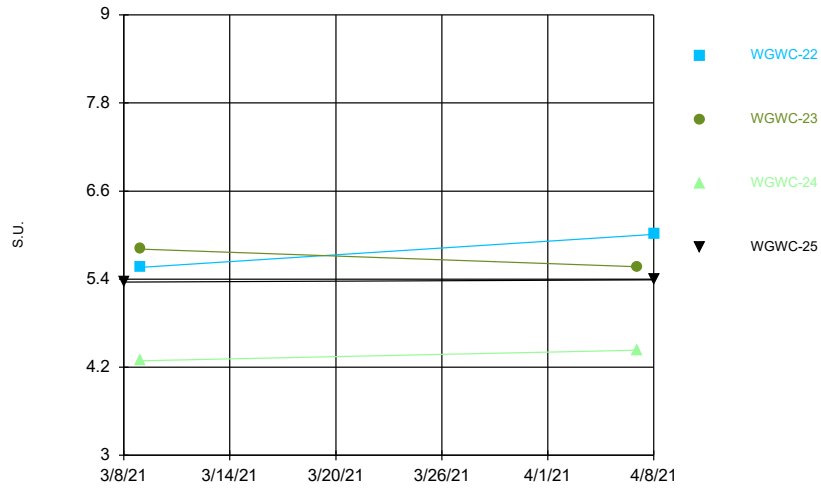
Constituent: pH, Field Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



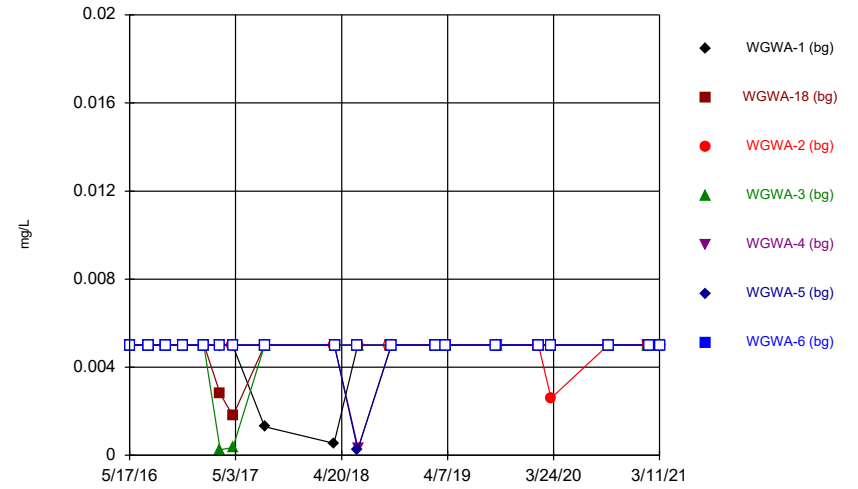
Constituent: pH, Field Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



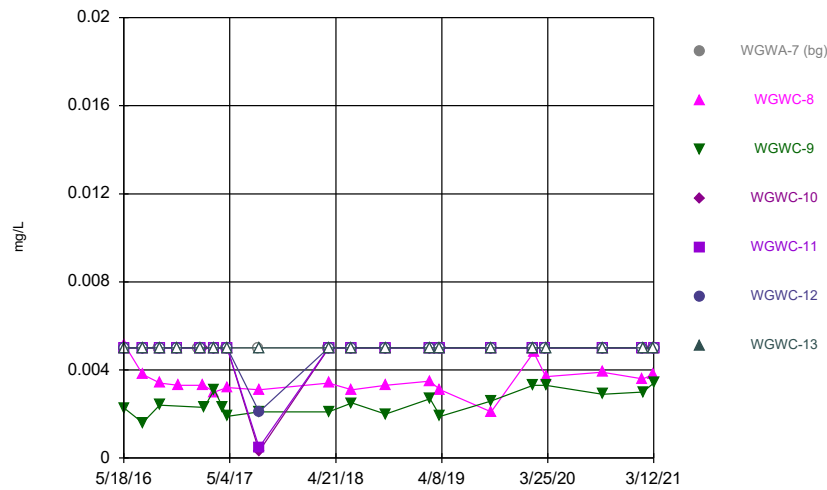
Constituent: pH, Field Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



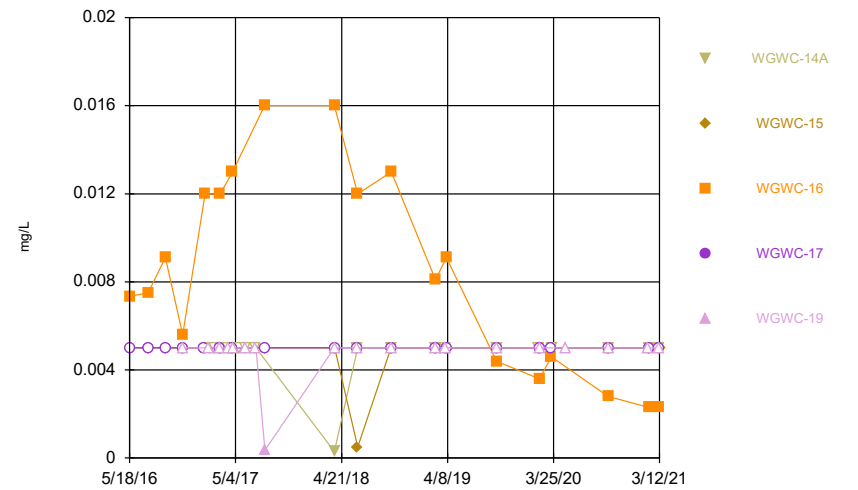
Constituent: Selenium Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



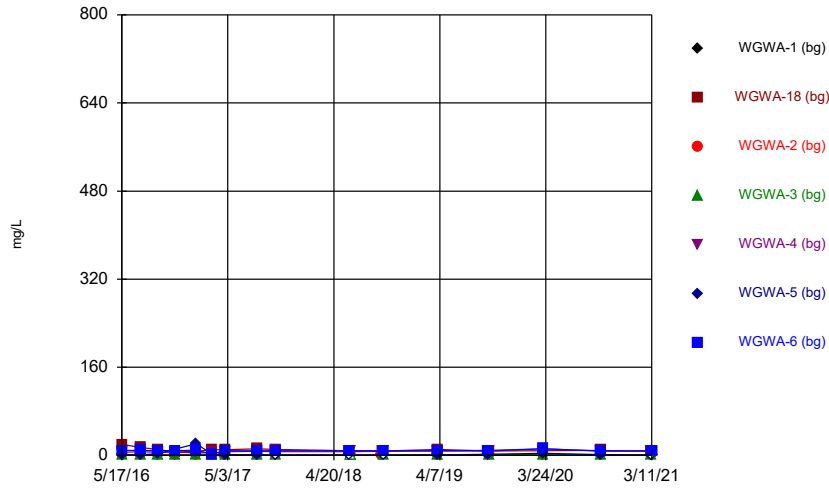
Constituent: Selenium Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



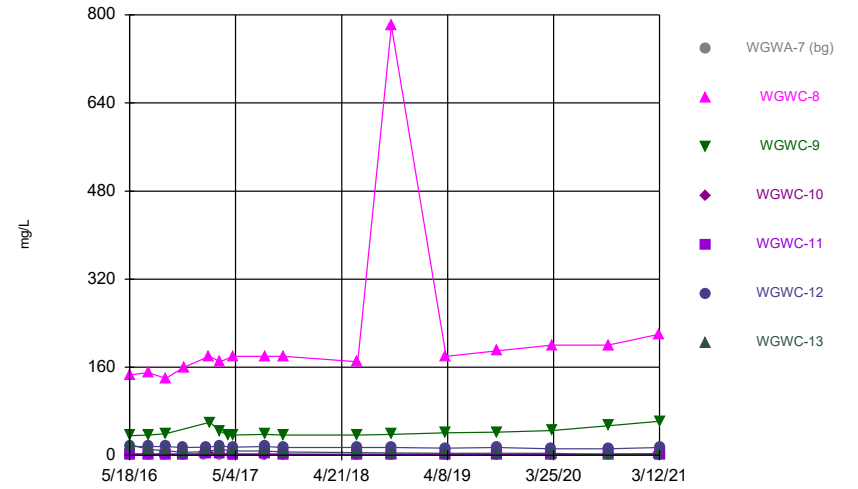
Constituent: Selenium Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



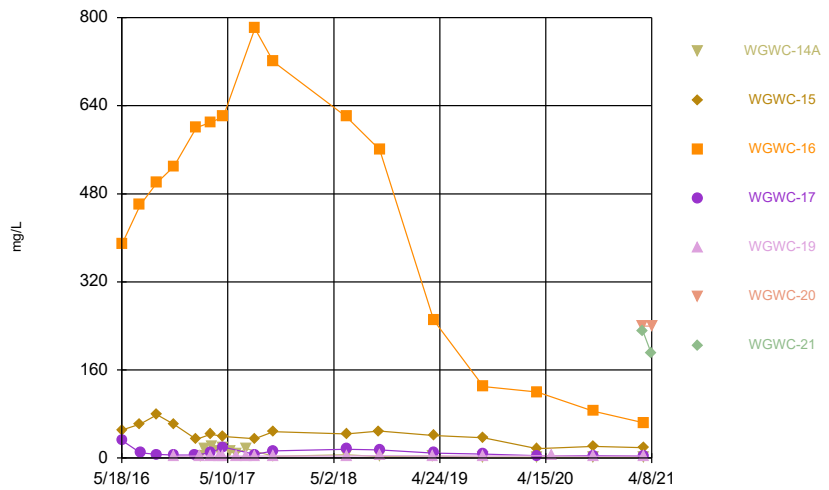
Constituent: Sulfate as SO4 Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



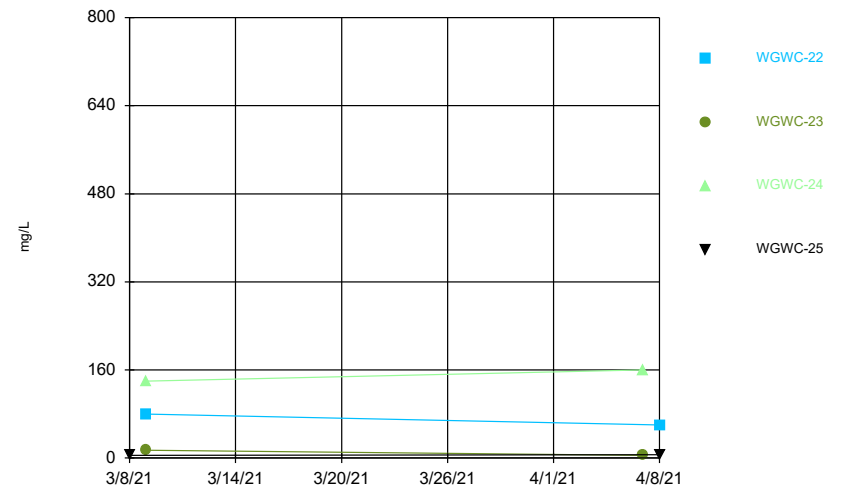
Constituent: Sulfate as SO4 Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



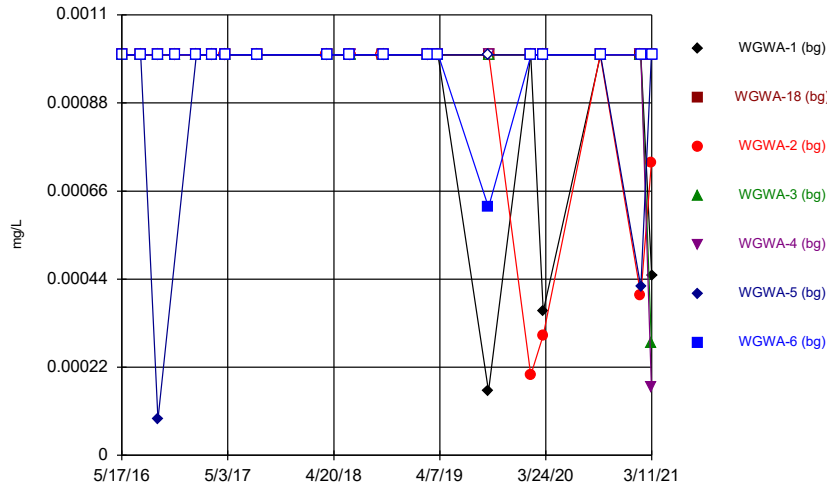
Constituent: Sulfate as SO4 Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



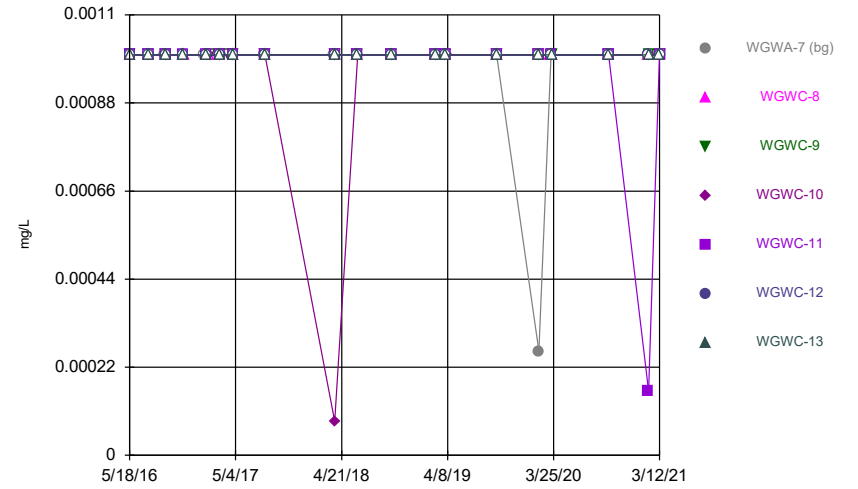
Constituent: Sulfate as SO4 Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



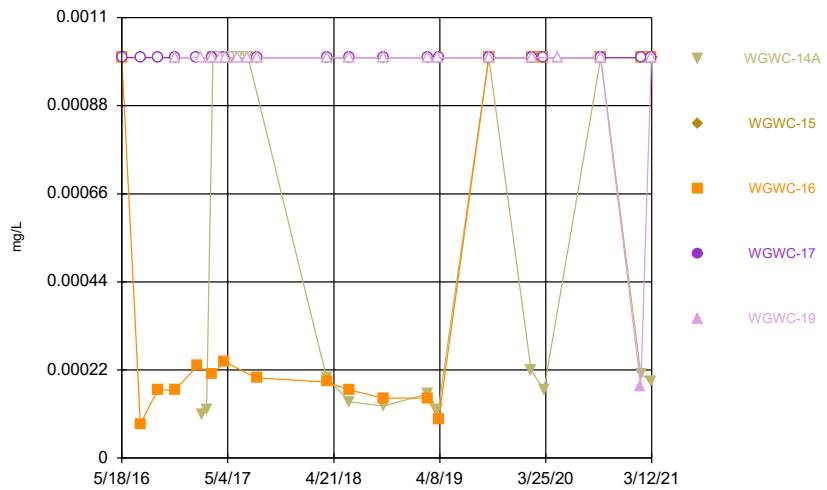
Constituent: Thallium Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



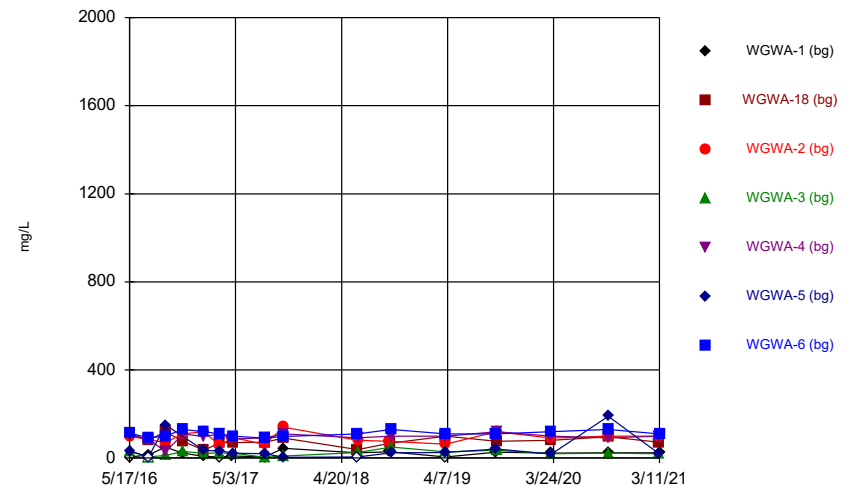
Constituent: Thallium Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



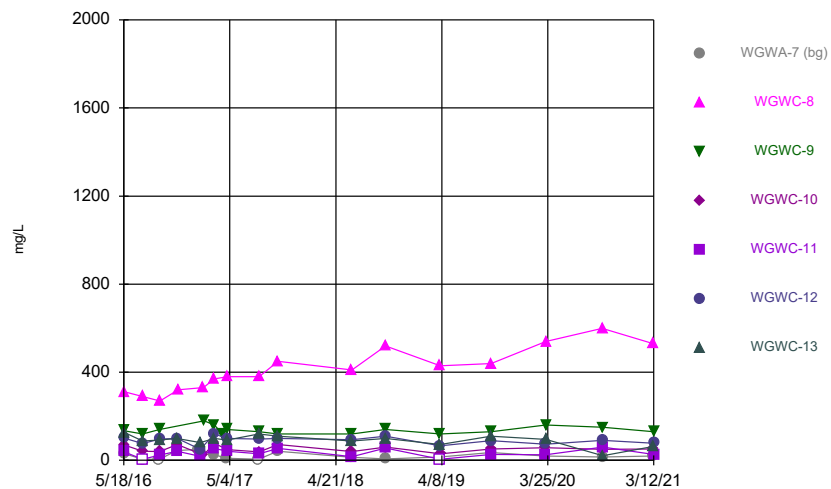
Constituent: Thallium Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



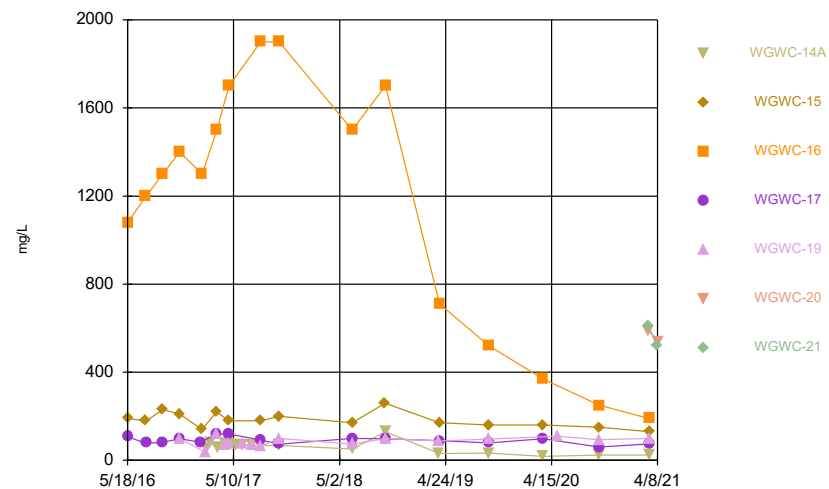
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



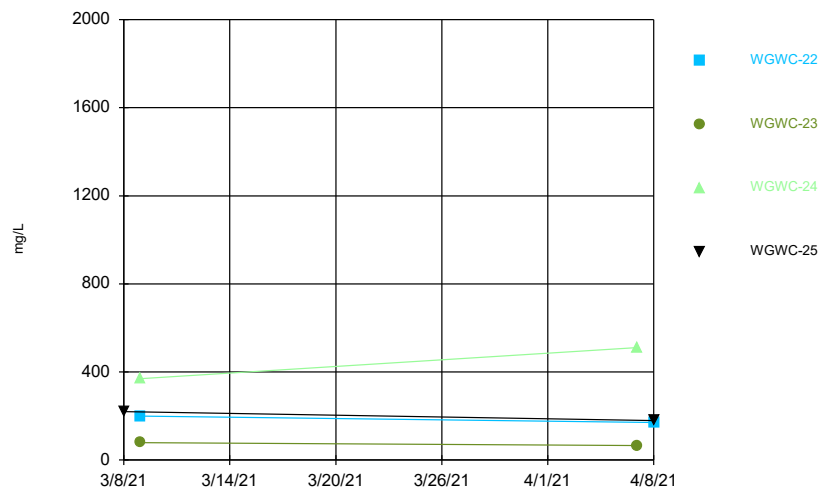
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.002	<0.002	<0.002				
5/18/2016				<0.002	<0.002	<0.002	<0.002
7/19/2016	<0.002	<0.002	<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		<0.002
9/14/2016						<0.002	
11/9/2016	<0.002	<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		<0.002
1/19/2017		<0.002				<0.002	
3/13/2017	<0.002		<0.002				
3/14/2017		<0.002		<0.002	<0.002	<0.002	<0.002
4/24/2017	<0.002		<0.002				
4/25/2017		<0.002		<0.002	<0.002	<0.002	<0.002
8/8/2017	0.0022 (J)	<0.002	<0.002	<0.002			<0.002
8/9/2017					<0.002	<0.002	
3/27/2018	<0.002		<0.002				
3/28/2018		<0.002		<0.002	<0.002	<0.002	<0.002
2/25/2019	<0.002		<0.002				
2/26/2019		<0.002		<0.002	<0.002	<0.002	<0.002
2/3/2020	<0.002		<0.002				
2/4/2020				<0.002	<0.002	<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	<0.002	<0.002
2/2/2021	0.00062 (J)	<0.002	<0.002	<0.002	<0.002		
2/3/2021						<0.002	<0.002
3/10/2021		<0.002	<0.002	<0.002	<0.002	<0.002	
3/11/2021	<0.002						<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	<0.002			<0.002			
5/19/2016		<0.002	<0.002		<0.002	<0.002	<0.002
7/19/2016	<0.002						
7/20/2016		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/13/2016	<0.002						
9/14/2016			<0.002	<0.002	<0.002	<0.002	<0.002
9/15/2016		<0.002					
11/10/2016	<0.002						<0.002
11/11/2016				<0.002	<0.002	<0.002	
11/14/2016		<0.002					
1/18/2017	<0.002						
1/27/2017					<0.002	<0.002	<0.002
2/6/2017		<0.002		<0.002			
2/9/2017			<0.002				
3/14/2017	<0.002						
3/15/2017		<0.002	0.0011 (J)	<0.002	<0.002	<0.002	<0.002
4/11/2017			<0.002				
4/25/2017	<0.002						
4/26/2017		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/8/2017	<0.002						
8/9/2017							<0.002
8/10/2017		<0.002	<0.002	<0.002	<0.002	0.0023 (J)	
3/28/2018	<0.002						
3/29/2018		<0.002	<0.002		<0.002	<0.002	<0.002
3/30/2018				<0.002			
2/26/2019	<0.002						
2/27/2019		<0.002		<0.002	<0.002	<0.002	<0.002
2/28/2019			<0.002				
2/5/2020	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002
2/7/2020		<0.002					
3/17/2020	<0.002						
3/18/2020				<0.002	<0.002	<0.002	
3/19/2020		<0.002	0.00041 (J)				<0.002
2/2/2021	<0.002						
2/3/2021		<0.002			<0.002	<0.002	
2/4/2021			0.00041 (J)	<0.002			<0.002
3/10/2021	<0.002						
3/11/2021		<0.002		<0.002			<0.002
3/12/2021			<0.002		<0.002	<0.002	

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
5/18/2016		<0.002	<0.002	<0.002	
7/19/2016		<0.002	<0.002		
7/20/2016				<0.002	
9/14/2016		<0.002	<0.002	<0.002	
11/10/2016		<0.002	<0.002	<0.002	
11/11/2016					<0.002
1/20/2017				<0.002	
1/24/2017		<0.002	<0.002		
2/6/2017					<0.002
2/8/2017	<0.002				
2/23/2017	<0.002				
3/14/2017		<0.002		<0.002	
3/15/2017			<0.002		<0.002
3/17/2017	<0.002				
4/11/2017	<0.002				<0.002
4/25/2017		<0.002	<0.002	<0.002	
4/26/2017	<0.002				<0.002
5/17/2017	<0.002				
6/7/2017	<0.002				<0.002
7/11/2017	<0.002				<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
3/30/2018		<0.002		<0.002	
2/26/2019				<0.002	
2/27/2019	<0.002	<0.002	<0.002		
2/28/2019					<0.002
2/5/2020	<0.002				
2/7/2020		<0.002	<0.002	<0.002	<0.002
3/18/2020		<0.002	<0.002	<0.002	
3/19/2020	<0.002				
5/4/2020					<0.002
2/3/2021					<0.002
2/4/2021	<0.002	<0.002	<0.002	<0.002	
3/11/2021	<0.002		<0.002	<0.002	<0.002
3/12/2021		<0.002			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.001	<0.001	<0.001				
5/18/2016				<0.001	<0.001	<0.001	<0.001
7/19/2016	<0.001	0.00061 (J)	<0.001			<0.001	<0.001
7/20/2016				<0.001	<0.001		
9/13/2016	<0.001	0.00074 (J)	<0.001	<0.001	<0.001		<0.001
9/14/2016						0.00069 (J)	
11/9/2016	<0.001	<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)		0.0008 (J)
1/19/2017		0.00079 (J)				<0.001	
3/13/2017	<0.001		<0.001				
3/14/2017		0.0014		<0.001	<0.001	<0.001	<0.001
4/24/2017	<0.001		<0.001				
4/25/2017		0.00062 (J)		<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001			<0.001
8/9/2017					<0.001	<0.001	
3/27/2018	<0.001		<0.001				
3/28/2018		0.00046 (J)		<0.001	<0.001	<0.001	<0.001
6/13/2018	0.001 (J)	0.00057 (J)				<0.001	<0.001
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					
10/2/2018							<0.001
10/3/2018				0.00069 (J)	<0.001	0.00085 (J)	
2/25/2019	<0.001		<0.001				
2/26/2019		0.00054 (J)		<0.001	0.00033 (J)	<0.001	<0.001
4/1/2019	<0.001		<0.001				
4/2/2019		<0.001		<0.001	<0.001	<0.001	<0.001
9/16/2019	<0.001					<0.001	0.00036 (J)
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)	<0.001	<0.001
2/5/2020		0.00058 (J)					
3/16/2020	0.00038 (J)		0.00043 (J)				
3/17/2020		<0.001		<0.001	<0.001	<0.001	<0.001
9/21/2020			<0.001	<0.001	<0.001		
9/22/2020	<0.001	<0.001				<0.001	<0.001
2/2/2021	<0.001	<0.001	<0.001	<0.001	<0.001		
2/3/2021						<0.001	<0.001
3/10/2021		<0.001	0.00063 (J)	<0.001	0.00036 (J)	<0.001	
3/11/2021	<0.001						<0.001

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	<0.001			<0.001			
5/19/2016		<0.001	<0.001		<0.001	<0.001	<0.001
7/19/2016	<0.001						
7/20/2016		0.00055 (J)	0.00078 (J)	<0.001	<0.001	<0.001	<0.001
9/13/2016	<0.001						
9/14/2016			<0.001	<0.001	<0.001	<0.001	<0.001
9/15/2016		<0.001					
11/10/2016	<0.001						<0.001
11/11/2016				<0.001	<0.001	<0.001	
11/14/2016		<0.001					
1/18/2017	0.001 (J)						
1/27/2017					0.00047 (J)	<0.001	0.00066 (J)
2/6/2017		<0.001		<0.001			
2/9/2017			0.0017				
3/14/2017	<0.001						
3/15/2017		<0.001	0.00047 (J)	<0.001	<0.001	<0.001	<0.001
4/11/2017			<0.001				
4/25/2017	<0.001						
4/26/2017		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001						
8/9/2017							<0.001
8/10/2017		<0.001	<0.001	<0.001	<0.001	0.00048 (J)	
3/28/2018	<0.001						
3/29/2018		<0.001	<0.001		<0.001	<0.001	0.00067 (J)
3/30/2018				<0.001			
6/14/2018	0.0005 (J)	<0.001	<0.001	0.0005 (J)	<0.001	0.00052 (J)	0.00093 (J)
10/3/2018	<0.001						
10/4/2018		0.0015	<0.001	0.00089 (J)	0.00054 (J)	<0.001	0.0015
2/26/2019	<0.001						
2/27/2019		0.00047 (J)		<0.001	<0.001	<0.001	0.00036 (J)
2/28/2019			<0.001				
4/2/2019	<0.001						
4/3/2019		<0.001	<0.001		<0.001	<0.001	0.00053 (J)
4/4/2019				<0.001			
9/18/2019	<0.001						0.00039 (J)
9/19/2019		0.00032 (J)	<0.001	0.00038 (J)	<0.001	<0.001	
2/5/2020	<0.001		<0.001	0.00035 (J)	<0.001	<0.001	0.00048 (J)
2/7/2020		0.0011					
3/17/2020	<0.001						
3/18/2020				<0.001	<0.001	<0.001	
3/19/2020		0.00071 (J)	<0.001				0.00039 (J)
9/22/2020	<0.001	0.0011					
9/23/2020			<0.001	<0.001		<0.001	
9/24/2020					0.00051 (J)		<0.001
2/2/2021	<0.001						
2/3/2021		0.0013			<0.001	<0.001	
2/4/2021			<0.001	<0.001			0.00038 (J)
3/10/2021	<0.001						
3/11/2021		0.0009 (J)		0.00031 (J)			0.00035 (J)
3/12/2021			<0.001		<0.001	<0.001	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
5/18/2016		0.00345	<0.001	<0.001	
7/19/2016		0.0031	0.0009 (J)		
7/20/2016				0.00058 (J)	
9/14/2016		0.0024	0.0014	<0.001	
11/10/2016		0.0023	0.0021	0.00082 (J)	
11/11/2016					<0.001
1/20/2017				<0.001	
1/24/2017		0.0019	0.0015		
2/6/2017					<0.001
2/8/2017	<0.001				
2/23/2017	<0.001				
3/14/2017		0.0016		<0.001	
3/15/2017			0.0014		<0.001
3/17/2017	0.0006 (J)				
4/11/2017	0.0032				<0.001
4/25/2017		0.0019	0.0014	0.00095 (J)	
4/26/2017	0.0019				<0.001
5/17/2017	0.0014				
6/7/2017	0.0021				<0.001
7/11/2017	0.00095 (J)				<0.001
8/9/2017		0.0017	0.0013	<0.001	
8/10/2017					<0.001
3/29/2018	<0.001		0.0014		<0.001
3/30/2018		0.0018		<0.001	
6/14/2018	<0.001	0.002	<0.001	0.00076 (J)	<0.001
10/3/2018		0.0024			
10/4/2018	0.0017		0.0013	0.00088 (J)	<0.001
2/26/2019				0.0005 (J)	
2/27/2019	<0.001	0.0015	0.00046 (J)		
2/28/2019					<0.001
4/2/2019					<0.001
4/3/2019	<0.001				
4/4/2019		0.0019	<0.001	<0.001	
9/18/2019	<0.001	0.0016	<0.001	<0.001	<0.001
2/5/2020	<0.001				
2/7/2020		0.001	<0.001	0.00075 (J)	<0.001
3/18/2020		0.00088 (J)	<0.001	0.00054 (J)	
3/19/2020	<0.001				
5/4/2020					<0.001
9/23/2020		0.00061 (J)	<0.001	0.00067 (J)	<0.001
9/24/2020	<0.001				
2/3/2021					<0.001
2/4/2021	<0.001	0.00069 (J)	<0.001	0.00035 (J)	
3/11/2021	<0.001		<0.001	<0.001	<0.001
3/12/2021		0.00084 (J)			

Time Series

Constituent: Barium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.041	0.0221	0.0308				
5/18/2016				0.0174	0.00723	0.0198	0.00518
7/19/2016	0.038	0.018	0.022			0.015	0.0049
7/20/2016				0.012	0.0051		
9/13/2016	0.029	0.021	0.021	0.013	0.0058		0.006
9/14/2016						0.062	
11/9/2016	0.041	0.011	0.025				0.0066
11/10/2016				0.013	0.0063		
1/17/2017	0.044		0.017				
1/18/2017				0.014	0.0059		0.007
1/19/2017		0.012				0.034	
3/13/2017	0.042		0.019				
3/14/2017		0.017		0.014	0.0058	0.018	0.014
4/24/2017	0.039		0.019				
4/25/2017		0.017		0.015	0.0056	0.018	0.0062
8/8/2017	0.044	0.021	0.022	0.015			0.0065
8/9/2017					0.0056	0.016	
3/27/2018	0.041		0.021				
3/28/2018		0.019		0.014	0.0052	0.015	0.0059
6/13/2018	0.045	0.013				0.016	0.0067
6/14/2018			0.02	0.013	0.0057		
9/24/2018			0.02				
9/27/2018	0.047						
9/28/2018		0.014					
10/2/2018							0.0066
10/3/2018				0.014	0.0054	0.016	
2/25/2019	0.049		0.027				
2/26/2019		0.015		0.014	0.012	0.02	0.011
4/1/2019	0.044		0.027				
4/2/2019		0.014		0.014	0.0056	0.016	0.0069
9/16/2019	0.05					0.027	0.0073 (J)
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)	0.022	0.013
2/5/2020		0.02					
3/16/2020	0.046		0.026				
3/17/2020		0.013		0.013	0.0059 (J)	0.017	0.0081 (J)
9/21/2020			0.024	0.015	0.006 (J)		
9/22/2020	0.048	0.015				0.032	0.0079 (J)
2/2/2021	0.05	0.017	0.025	0.015	0.006 (J)		
2/3/2021						0.015	0.0079 (J)
3/10/2021		0.016	0.024	0.014	0.0057 (J)	0.016	
3/11/2021	0.046						0.0077 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	0.0114			0.0391			
5/19/2016		0.0026	<0.01		0.031	0.0214	0.055
7/19/2016	0.012						
7/20/2016		0.0017 (J)	0.0014 (J)	0.028	0.029	0.019	0.039
9/13/2016	0.011						
9/14/2016			0.00092 (J)	0.035	0.031	0.02	0.04
9/15/2016		0.0039					
11/10/2016	0.016						0.04
11/11/2016				0.042	0.034	0.022	
11/14/2016		0.00085 (J)					
1/18/2017	0.013						
1/27/2017					0.042	0.023	0.042
2/6/2017		0.0011 (J)		0.041			
2/9/2017			0.0015 (J)				
3/14/2017	0.01						
3/15/2017		0.0013 (J)	0.00054 (J)	0.04	0.032	0.024	0.058
4/11/2017			0.0007 (J)				
4/25/2017	0.012						
4/26/2017		0.00098 (J)	<0.01	0.039	0.03	0.004	0.054
8/8/2017	0.012						
8/9/2017							0.055
8/10/2017		0.0025	0.00053 (J)	0.038	0.03	0.017	
3/28/2018	0.01						
3/29/2018		0.00085 (J)	<0.01		0.028	0.017	0.061
3/30/2018				0.042			
6/14/2018	0.012	0.0028	0.00088 (J)	0.038	0.03	0.015	0.055
10/3/2018	0.011						
10/4/2018		0.0017 (J)	0.00076 (J)	0.04	0.035	0.017	0.046
2/26/2019	0.013						
2/27/2019		<0.01		0.04	0.04	0.016	0.054
2/28/2019			0.0023 (J)				
4/2/2019	0.011						
4/3/2019		0.001 (J)	<0.01		0.035	0.015	0.056
4/4/2019				0.04			
9/18/2019	0.012						0.062
9/19/2019		<0.01	0.0018 (J)	0.038	0.033	0.016	
2/5/2020	0.012		0.0022 (J)	0.061	0.047	0.016	0.052
2/7/2020		<0.01					
3/17/2020	0.012						
3/18/2020				0.035	0.038	0.016	
3/19/2020		<0.01	0.0021 (J)				0.072
9/22/2020	0.013	<0.01					
9/23/2020			<0.01	0.035		0.016	
9/24/2020					0.061		0.038
2/2/2021	0.012						
2/3/2021		<0.01			0.039	0.015	
2/4/2021			0.0016 (J)	0.035			0.047
3/10/2021	0.011						
3/11/2021		<0.01		0.033			0.049
3/12/2021			<0.01		0.045	0.017	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
5/18/2016		0.0206	0.0715	0.0219	
7/19/2016		0.019	0.069		
7/20/2016				0.019	
9/14/2016		0.02	0.066	0.017	
11/10/2016		0.02	0.069	0.02	
11/11/2016					0.0022 (J)
1/20/2017				0.018	
1/24/2017		0.017	0.068		
2/6/2017					0.0018 (J)
2/8/2017	0.037				
2/23/2017	0.051				
3/14/2017		0.018		0.019	
3/15/2017			0.065		0.0015 (J)
3/17/2017	0.046				
4/11/2017	0.055				0.0014 (J)
4/25/2017		0.018	0.057	0.023	
4/26/2017	0.042				0.0014 (J)
5/17/2017	0.052				
6/7/2017	0.06				0.0014 (J)
7/11/2017	0.038				0.0013 (J)
8/9/2017		0.02	0.069	0.017	
8/10/2017					0.0012 (J)
3/29/2018	0.028		0.05		0.00097 (J)
3/30/2018		0.021		0.015	
6/14/2018	0.023	0.022	0.046	0.013	0.0011 (J)
10/3/2018		0.024			
10/4/2018	0.036		0.046	0.013	0.0012 (J)
2/26/2019				0.012	
2/27/2019	0.028	0.023	0.028		
2/28/2019					<0.01
4/2/2019					0.0013 (J)
4/3/2019	0.026				
4/4/2019		0.022	0.027	0.011	
9/18/2019	0.025	0.026	0.032	0.011	<0.01
2/5/2020	0.077				
2/7/2020		0.022	0.034	0.011	0.0065 (J)
3/18/2020		0.021	0.034	0.012	
3/19/2020	0.031				
5/4/2020					<0.01
9/23/2020		0.027	0.037	0.012	<0.01
9/24/2020	0.034				
2/3/2021					<0.01
2/4/2021	0.029	0.028	0.039	0.012	
3/11/2021	0.032		0.037	0.011	<0.01
3/12/2021		0.028			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025				
5/18/2016				<0.0025	<0.0025	<0.0025	<0.0025
7/19/2016	<0.0025	<0.0025	<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		<0.0025
9/14/2016						<0.0025	
11/9/2016	<0.0025	<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		<0.0025
1/19/2017		<0.0025				<0.0025	
3/13/2017	<0.0025		<0.0025				
3/14/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/24/2017	<0.0025		<0.0025				
4/25/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
8/8/2017	<0.0025	<0.0025	<0.0025	<0.0025			<0.0025
8/9/2017					<0.0025	<0.0025	
3/27/2018	<0.0025		<0.0025				
3/28/2018		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
6/13/2018	<0.0025	<0.0025				<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					
10/2/2018							<0.0025
10/3/2018				<0.0025	<0.0025	<0.0025	
2/25/2019	<0.0025		<0.0025				
2/26/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/1/2019	<0.0025		<0.0025				
4/2/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
9/16/2019	0.00032 (J)					0.00036 (J)	0.0011
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	<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	<0.0025	<0.0025
9/21/2020			<0.0025	<0.0025	<0.0025		
9/22/2020	<0.0025	<0.0025				<0.0025	<0.0025
2/2/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
2/3/2021						<0.0025	<0.0025
3/10/2021		<0.0025	0.00065 (J)	0.00019 (J)	<0.0025	<0.0025	
3/11/2021	0.00029 (J)						<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	<0.0025			<0.0025			
5/19/2016		0.00102 (J)	<0.0025		<0.0025	<0.0025	<0.0025
7/19/2016	<0.0025						
7/20/2016		0.0014 (J)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
9/13/2016	<0.0025						
9/14/2016			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
9/15/2016		0.00093 (J)					
11/10/2016	<0.0025						<0.0025
11/11/2016				<0.0025	<0.0025	<0.0025	
11/14/2016		0.0014 (J)					
1/18/2017	<0.0025						
1/27/2017					<0.0025	<0.0025	<0.0025
2/6/2017		0.0017 (J)		<0.0025			
2/9/2017			0.00041 (J)				
3/14/2017	<0.0025						
3/15/2017		0.0016 (J)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/11/2017			<0.0025				
4/25/2017	<0.0025						
4/26/2017		0.0017 (J)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/8/2017	<0.0025						
8/9/2017							<0.0025
8/10/2017		0.0017 (J)	0.00034 (J)	<0.0025	<0.0025	<0.0025	
3/28/2018	<0.0025						
3/29/2018		0.0018 (J)	<0.0025		<0.0025	<0.0025	<0.0025
3/30/2018				<0.0025			
6/14/2018	<0.0025	0.0015 (J)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/3/2018	<0.0025						
10/4/2018		0.0019 (J)	0.00036 (J)	<0.0025	<0.0025	<0.0025	<0.0025
2/26/2019	<0.0025						
2/27/2019		0.0021 (J)		<0.0025	<0.0025	<0.0025	<0.0025
2/28/2019			0.00031 (J)				
4/2/2019	<0.0025						
4/3/2019		0.0019 (J)	<0.0025		<0.0025	<0.0025	<0.0025
4/4/2019				<0.0025			
9/18/2019	<0.0025						<0.0025
9/19/2019		0.0019	0.00041 (J)	<0.0025	<0.0025	<0.0025	
2/5/2020	0.00041 (J)		0.0004 (J)	<0.0025	<0.0025	<0.0025	<0.0025
2/7/2020		0.0023					
3/17/2020	<0.0025						
3/18/2020				<0.0025	<0.0025	<0.0025	
3/19/2020		0.0028	0.00056 (J)				<0.0025
9/22/2020	<0.0025	0.0025					
9/23/2020			0.00034 (J)	<0.0025		<0.0025	
9/24/2020					<0.0025		<0.0025
2/2/2021	<0.0025						
2/3/2021		0.0025			<0.0025	<0.0025	
2/4/2021			0.00039 (J)	<0.0025			<0.0025
3/10/2021	<0.0025						
3/11/2021		0.0022 (J)		<0.0025			<0.0025
3/12/2021			0.00034 (J)		<0.0025	<0.0025	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
5/18/2016		<0.0025	<0.0025	<0.0025	
7/19/2016		<0.0025	<0.0025		
7/20/2016				<0.0025	
9/14/2016		<0.0025	<0.0025	<0.0025	
11/10/2016		<0.0025	<0.0025	<0.0025	
11/11/2016					<0.0025
1/20/2017				<0.0025	
1/24/2017		<0.0025	<0.0025		
2/6/2017					<0.0025
2/8/2017	<0.0025				
2/23/2017	<0.0025				
3/14/2017		<0.0025		<0.0025	
3/15/2017			<0.0025		<0.0025
3/17/2017	<0.0025				
4/11/2017	<0.0025				<0.0025
4/25/2017		<0.0025	<0.0025	<0.0025	
4/26/2017	<0.0025				<0.0025
5/17/2017	<0.0025				
6/7/2017	<0.0025				<0.0025
7/11/2017	<0.0025				<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
3/30/2018		<0.0025		<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
2/26/2019				<0.0025	
2/27/2019	0.00017 (J)	<0.0025	0.00022 (J)		
2/28/2019					<0.0025
4/2/2019					<0.0025
4/3/2019	<0.0025				
4/4/2019		<0.0025	<0.0025	<0.0025	
9/18/2019	0.00032 (J)	<0.0025	<0.0025	<0.0025	<0.0025
2/5/2020	0.00024 (J)				
2/7/2020		<0.0025	<0.0025	<0.0025	<0.0025
3/18/2020		<0.0025	<0.0025	<0.0025	
3/19/2020	0.00025 (J)				
5/4/2020					<0.0025
9/23/2020		<0.0025	<0.0025	<0.0025	<0.0025
9/24/2020	0.00024 (J)				
2/3/2021					<0.0025
2/4/2021	0.00026 (J)	<0.0025	<0.0025	<0.0025	
3/11/2021	<0.0025		<0.0025	<0.0025	<0.0025
3/12/2021		<0.0025			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.08	<0.08	<0.08				
5/18/2016				<0.08	<0.08	<0.08	<0.08
7/19/2016	<0.08	<0.08	<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		<0.08
9/14/2016						<0.08	
11/9/2016	<0.08	<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		<0.08
1/19/2017		<0.08				<0.08	
3/13/2017	<0.08		<0.08				
3/14/2017		<0.08		<0.08	<0.08	<0.08	<0.08
4/24/2017	<0.08		<0.08				
4/25/2017		<0.08		<0.08	<0.08	<0.08	<0.08
8/8/2017	<0.08	<0.08	<0.08	<0.08			<0.08
8/9/2017					<0.08	<0.08	
10/10/2017	<0.08		<0.08				
10/11/2017		<0.08		<0.08	<0.08	<0.08	<0.08
6/13/2018	<0.08	<0.08				<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					
10/2/2018							<0.08
10/3/2018				<0.08	<0.08	<0.08	
4/1/2019	<0.08		<0.08				
4/2/2019		<0.08		<0.08	<0.08	<0.08	<0.08
9/16/2019	<0.08					<0.08	<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	<0.08	<0.08
9/21/2020			<0.08	<0.08	<0.08		
9/22/2020	<0.08	<0.08				<0.08	<0.08
3/10/2021		<0.08	0.039 (J)	<0.08	<0.08	<0.08	
3/11/2021	<0.08						<0.08

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	<0.08			<0.08			
5/19/2016		1.42	0.314		<0.08	<0.08	0.0252 (J)
7/19/2016	<0.08						
7/20/2016		1.4	0.25	<0.08	<0.08	<0.08	<0.08
9/13/2016	<0.08						
9/14/2016			0.3	<0.08	<0.08	<0.08	<0.08
9/15/2016		1.2					
11/10/2016	<0.08						<0.08
11/11/2016				<0.08	<0.08	<0.08	
11/14/2016		1.3					
1/18/2017	<0.08						
1/27/2017					0.021 (J)	0.047 (J)	0.033 (J)
2/6/2017		1.8		<0.08			
2/9/2017			0.61				
3/14/2017	<0.08						
3/15/2017		1.7	0.42	0.032 (J)	0.058	0.024 (J)	<0.08
4/11/2017			0.37				
4/25/2017	<0.08						
4/26/2017		2	0.38	<0.08	<0.08	<0.08	<0.08
8/8/2017	<0.08						
8/9/2017							<0.08
8/10/2017		1.8	0.29	<0.08	<0.08	<0.08	
10/11/2017	<0.08						
10/12/2017		1.8	0.36	<0.08	<0.08	<0.08	<0.08
6/14/2018	<0.08	1.7	0.39	<0.08	<0.08	<0.08	<0.08
10/3/2018	<0.08						
10/4/2018		1.9	0.37	<0.08	<0.08	<0.08	<0.08
4/2/2019	<0.08						
4/3/2019		1.7	0.35		<0.08	<0.08	<0.08
4/4/2019				0.024 (J)			
9/18/2019	<0.08						<0.08
9/19/2019		1.7	0.39	<0.08	<0.08	<0.08	
3/17/2020	<0.08						
3/18/2020				0.049 (J)	<0.08	0.039 (J)	
3/19/2020		2.2	0.55				0.053 (J)
9/22/2020	<0.08	2.5					
9/23/2020			0.68	<0.08		<0.08	
9/24/2020					<0.08		<0.08
3/10/2021	<0.08						
3/11/2021		2.4		<0.08			<0.08
3/12/2021			0.64		<0.08	<0.08	

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
5/18/2016		<0.08	4.48	<0.08			
7/19/2016		<0.08	4.7				
7/20/2016				<0.08			
9/14/2016		<0.08	5.8	<0.08			
11/10/2016		<0.08	6.7	<0.08			
11/11/2016					<0.08		
1/20/2017				<0.08			
1/24/2017		<0.08	6.3				
2/6/2017					<0.08		
2/8/2017	<0.08						
2/23/2017	<0.08						
3/14/2017		<0.08		<0.08			
3/15/2017			5.9		0.034 (J)		
3/17/2017	<0.08						
4/11/2017	<0.08				<0.08		
4/25/2017		<0.08	6.2	<0.08			
4/26/2017	<0.08				<0.08		
5/17/2017	<0.08						
6/7/2017	<0.08				<0.08		
7/11/2017	<0.08				<0.08		
8/9/2017		<0.08	6.3	<0.08			
8/10/2017					<0.08		
10/11/2017	<0.08	<0.08	6.8	<0.08			
10/12/2017					<0.08		
6/14/2018	<0.08	<0.08	5.4	<0.08	<0.08		
10/3/2018		<0.08					
10/4/2018	<0.08		5.5	<0.08	<0.08		
4/2/2019					<0.08		
4/3/2019	<0.08						
4/4/2019		<0.08	3.2	0.049 (J)			
9/18/2019	<0.08	<0.08	2.1	<0.08	<0.08		
3/18/2020		0.071 (J)	2	0.049 (J)			
3/19/2020	0.039 (J)						
5/4/2020					<0.08		
9/23/2020		<0.08	1.5	<0.08	<0.08		
9/24/2020	<0.08						
3/8/2021						1.3	
3/9/2021							0.19
3/11/2021	<0.08		1.1	<0.08	<0.08		
3/12/2021		<0.08					
4/7/2021							0.13
4/8/2021						0.98	

Time Series

Constituent: Boron, total (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-22	WGWC-23	WGWC-24	WGWC-25
3/8/2021				0.48
3/9/2021	0.33	0.073 (J)	1.8	
4/7/2021		<0.08	1.9	
4/8/2021	0.21			0.43

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025				
5/18/2016				<0.0025	<0.0025	<0.0025	<0.0025
7/19/2016	<0.0025	<0.0025	<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		<0.0025
9/14/2016						<0.0025	
11/9/2016	<0.0025	<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		<0.0025
1/19/2017		<0.0025				<0.0025	
3/13/2017	<0.0025		<0.0025				
3/14/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/24/2017	<0.0025		<0.0025				
4/25/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
8/8/2017	<0.0025	<0.0025	<0.0025	<0.0025			<0.0025
8/9/2017					<0.0025	<0.0025	
3/27/2018	<0.0025		<0.0025				
3/28/2018		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
6/13/2018	<0.0025	<0.0025				<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					
10/2/2018							<0.0025
10/3/2018				<0.0025	<0.0025	<0.0025	
2/25/2019	<0.0025		<0.0025				
2/26/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/1/2019	<0.0025		<0.0025				
4/2/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
9/16/2019	<0.0025					<0.0025	<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	<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	<0.0025	<0.0025
9/21/2020			<0.0025	<0.0025	<0.0025		
9/22/2020	<0.0025	<0.0025				<0.0025	<0.0025
2/2/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
2/3/2021						<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	<0.0025			<0.0025			
5/19/2016		<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
7/19/2016	<0.0025						
7/20/2016		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
9/13/2016	<0.0025						
9/14/2016			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
9/15/2016		<0.0025					
11/10/2016	<0.0025						<0.0025
11/11/2016				<0.0025	<0.0025	<0.0025	
11/14/2016		<0.0025					
1/18/2017	<0.0025						
1/27/2017					<0.0025	<0.0025	<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	<0.0025	<0.0025	<0.0025
4/11/2017			<0.0025				
4/25/2017	<0.0025						
4/26/2017		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/8/2017	<0.0025						
8/9/2017							<0.0025
8/10/2017		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
3/28/2018	<0.0025						
3/29/2018		<0.0025	<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	<0.0025	<0.0025
10/3/2018	<0.0025						
10/4/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/26/2019	<0.0025						
2/27/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
2/28/2019			<0.0025				
4/2/2019	<0.0025						
4/3/2019		<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
4/4/2019				<0.0025			
9/18/2019	<0.0025						<0.0025
9/19/2019		<0.0025	<0.0025	0.00021 (J)	<0.0025	<0.0025	
2/5/2020	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/7/2020		<0.0025					
3/17/2020	<0.0025						
3/18/2020				<0.0025	<0.0025	<0.0025	
3/19/2020		<0.0025	<0.0025				<0.0025
9/22/2020	<0.0025	<0.0025					
9/23/2020			<0.0025	<0.0025		<0.0025	
9/24/2020					<0.0025		<0.0025
2/2/2021	<0.0025						
2/3/2021		<0.0025			<0.0025	<0.0025	
2/4/2021			<0.0025	<0.0025			<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
5/18/2016		<0.0025	0.000362 (J)	<0.0025	
7/19/2016		<0.0025	<0.0025		
7/20/2016				<0.0025	
9/14/2016		<0.0025	0.00037 (J)	<0.0025	
11/10/2016		<0.0025	<0.0025	<0.0025	
11/11/2016					<0.0025
1/20/2017				<0.0025	
1/24/2017		<0.0025	0.00055 (J)		
2/6/2017					<0.0025
2/8/2017	<0.0025				
2/23/2017	<0.0025				
3/14/2017		<0.0025		<0.0025	
3/15/2017			0.00067 (J)		<0.0025
3/17/2017	<0.0025				
4/11/2017	<0.0025				<0.0025
4/25/2017		<0.0025	0.00058 (J)	<0.0025	
4/26/2017	<0.0025				<0.0025
5/17/2017	<0.0025				
6/7/2017	<0.0025				<0.0025
7/11/2017	<0.0025				<0.0025
8/9/2017		<0.0025	0.00054 (J)	<0.0025	
8/10/2017					<0.0025
3/29/2018	<0.0025		0.00082 (J)		<0.0025
3/30/2018		<0.0025		<0.0025	
6/14/2018	<0.0025	<0.0025	0.0007 (J)	<0.0025	<0.0025
10/3/2018		<0.0025			
10/4/2018	<0.0025		0.00065 (J)	<0.0025	<0.0025
2/26/2019				<0.0025	
2/27/2019	<0.0025	<0.0025	0.00055 (J)		
2/28/2019					<0.0025
4/2/2019					<0.0025
4/3/2019	<0.0025				
4/4/2019		<0.0025	0.00047 (J)	<0.0025	
9/18/2019	<0.0025	<0.0025	0.00017 (J)	<0.0025	<0.0025
2/5/2020	<0.0025				
2/7/2020		<0.0025	<0.0025	<0.0025	<0.0025
3/18/2020		<0.0025	0.00022 (J)	<0.0025	
3/19/2020	<0.0025				
5/4/2020					<0.0025
9/23/2020		<0.0025	<0.0025	<0.0025	<0.0025
9/24/2020	<0.0025				
2/3/2021					<0.0025
2/4/2021	<0.0025	<0.0025	<0.0025	<0.0025	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.927	23.7	12.2				
5/18/2016				2.1	17.9	1.7	27
7/19/2016	1	23	13			1.5	23
7/20/2016				1.7	15		
9/13/2016	0.44	23	13	1.3	16		25
9/14/2016						52	
11/9/2016	1.1	6.7	19				25
11/10/2016				1.6	15		
1/17/2017	1.4		28				
1/18/2017				1.7	17		26
1/19/2017		8.5				13	
3/13/2017	1.1		14				
3/14/2017		13		1.8	17	1.6	20
4/24/2017	1.1		12				
4/25/2017		23		2	17	1.5	28
8/8/2017	1.1	24	18	2			26
8/9/2017					15	1.3	
10/10/2017	1.2		21				
10/11/2017		23		2.1	17	1.5	29
6/13/2018	1.1	11				1.2	25
6/14/2018			12	2	15		
9/24/2018			11				
9/27/2018	1.2						
9/28/2018		11					
10/2/2018							26
10/3/2018				1.8	16	1.4	
4/1/2019	1		12				
4/2/2019		20		1.8	15	1.1	25
9/16/2019	1.3					36	25
9/17/2019		10	13		16		
9/18/2019				1.6			
3/16/2020	1.1		10				
3/17/2020		10		1.7	15	1.4	26
9/21/2020			13	1.8	16		
9/22/2020	1.2	19				58	25
3/10/2021		7.7	11	1.9	16	1.3	
3/11/2021	1.3						26

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	1.36			7.17			
5/19/2016		31.4	8.53		1.95	15.8	11.4
7/19/2016	0.88						
7/20/2016		28	8.2	7	1.5	14	7.1
9/13/2016	0.93						
9/14/2016			8.8	7.7	1.8	16	7.4
9/15/2016		27					
11/10/2016	6.1						6.4
11/11/2016				8.2	1.7	15	
11/14/2016		32					
1/18/2017	10						
1/27/2017					3.5	16	6.2
2/6/2017		41		9.1			
2/9/2017			10				
3/14/2017	1.3						
3/15/2017		38	8.6	9	3.8	16	6.7
4/11/2017			8.6				
4/25/2017	1.9						
4/26/2017		39	7.1	8.1	4	3	6.5
8/8/2017	4.8						
8/9/2017							7
8/10/2017		53	7.5	8.1	3.5	15	
10/11/2017	0.93						
10/12/2017		60	8.2	8.6	2.7	16	7
6/14/2018	0.94	52	7.5	7.7	2.2	13	5.5
10/3/2018	1.2						
10/4/2018		65	8	8.5	2	15	5.9
4/2/2019	1.1						
4/3/2019		61	7.2		1.7	14	4.7
4/4/2019				7.9			
9/18/2019	1.5						4.9
9/19/2019		57	8.1	7.5	1.4	14	
3/17/2020	0.82						
3/18/2020				7.5	1.6	14	
3/19/2020		79	9.3				5
9/22/2020	0.89	81					
9/23/2020			10	7.7		13	
9/24/2020					5.2		1.4
3/10/2021	0.89						
3/11/2021		83		7.9			4
3/12/2021			11		1.6	15	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
5/18/2016		32.5	168	8.24			
7/19/2016		30	190				
7/20/2016				11			
9/14/2016		37	230	12			
11/10/2016		29	240	11			
11/11/2016					12		
1/20/2017				10			
1/24/2017		28	280				
2/6/2017					11		
2/8/2017	3.2						
2/23/2017	4.1						
3/14/2017		29		8.8			
3/15/2017			260		10		
3/17/2017	2.4						
4/11/2017	4.1				11		
4/25/2017		32	300	12			
4/26/2017	2.5				8.4		
5/17/2017	5.2						
6/7/2017	5.2				9		
7/11/2017	2.3				9.5		
8/9/2017		30	350	11			
8/10/2017					8.8		
10/11/2017	3.8	31	360	10			
10/12/2017					9.5		
6/14/2018	1.1	29	260	6.2	8.9		
10/3/2018		31					
10/4/2018	2		250	6.4	10		
4/2/2019					11		
4/3/2019	0.84						
4/4/2019		30	110	5.6			
9/18/2019	0.85	31	62	5.5	8.8		
3/18/2020		30	66	6.3			
3/19/2020	0.89						
5/4/2020					15		
9/23/2020		32	43	5.9	13		
9/24/2020	0.99						
3/8/2021						90	
3/9/2021							66
3/11/2021	0.79		32	5.7	15		
3/12/2021		31					
4/7/2021							67
4/8/2021						88	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-22	WGWC-23	WGWC-24	WGWC-25
3/8/2021				14
3/9/2021	15	3.2	65	
4/7/2021		2.7	71	
4/8/2021	14			16

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	3.8	6.05	2.5				
5/18/2016				1.92	1.45	2.14	1.58
7/19/2016	3.9	4	2.6			2.4	1.6
7/20/2016				1.8	1.4		
9/13/2016	3.6	3.1	2.4	1.7	1.4		1.4
9/14/2016						2.1	
11/9/2016	3.9	2.3	2.3				1.5
11/10/2016				1.6	1.3		
1/17/2017	3.8		2.3				
1/18/2017				1.7	1.3		1.5
1/19/2017		2				1.8	
3/13/2017	3.4		2.2				
3/14/2017		1.9		1.6	1.2	2	2.5
4/24/2017	3.4		2.2				
4/25/2017		1.9		1.6	1.2	1.8	1.3
8/8/2017	3.6	2	2.3	1.7			1.4
8/9/2017					1.2	1.9	
10/10/2017	3.6		2.5				
10/11/2017		1.9		1.6	1.2	2.1	1.3
6/13/2018	3.8	2				1.7	1.4
6/14/2018			2.3	1.6	1.2		
9/24/2018			2.4				
9/27/2018	4						
9/28/2018		2.1					
10/2/2018							1.4
10/3/2018				1.6	1.2	1.8	
4/1/2019	4		2.4				
4/2/2019		2.6		1.7	1.2	1.7	1.5
9/16/2019	4					1.8	1.5
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	1.6	1.7
9/21/2020			2.5	1.5	1.2		
9/22/2020	4	2.1				1.5	1.4
3/10/2021		1.9	2.6	1.8	1.2	1.8	
3/11/2021	4.5						1.5

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	2.06			1.45			
5/19/2016		17.5	1.46		3.21	3.8	2.26
7/19/2016	2.1						
7/20/2016		19	1.5	1.6	3.4	3.8	1.9
9/13/2016	2						
9/14/2016			1.4	1.5	3.1	3.7	1.6
9/15/2016		19					
11/10/2016	1.8						1.4
11/11/2016				1.5	3.2	3.5	
11/14/2016		25					
1/18/2017	1.8						
1/27/2017					3.4	3.1	1.4
2/6/2017		33		1.4			
2/9/2017			1.5				
3/14/2017	1.8						
3/15/2017		38	1.3	1.4	3.1	3.2	1.4
4/11/2017			1.2				
4/25/2017	1.8						
4/26/2017		42	1.2	1.3	3.1	3.2	1.3
8/8/2017	1.9						
8/9/2017							1.4
8/10/2017		48	1.3	1.4	3.1	3.4	
10/11/2017	1.8						
10/12/2017		60	1.4	1.3	3	3.1	1.2
6/14/2018	1.7	58	1.2	1.3	3	3	1.2
10/3/2018	1.8						
10/4/2018		300	1.2	1.3	3.1	3.1	1.2
4/2/2019	1.9						
4/3/2019		70	2		3.3	3	1.2
4/4/2019				1.4			
9/18/2019	2						1.2
9/19/2019		70	1.5	1.5	3.2	3.2	
3/17/2020	2.2						
3/18/2020				1.5	3.2	3.2	
3/19/2020		98	2.1				1.3
9/22/2020	1.8	100					
9/23/2020			2.4	1.3		2.8	
9/24/2020					1		1.6
3/10/2021	1.9						
3/11/2021		110		1.7			1.2
3/12/2021			3.4		3.6	3.5	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
5/18/2016		4.59	217	2.72			
7/19/2016		5.9	250				
7/20/2016				1.9			
9/14/2016		7.9	260	1.6			
11/10/2016		6.5	290	1.6			
11/11/2016					2.6		
1/20/2017				1.5			
1/24/2017		4.1	310				
2/6/2017					2.6		
2/8/2017	2.5						
2/23/2017	4.3						
3/14/2017		4.4		1.5			
3/15/2017			330		2.4		
3/17/2017	4.8						
4/11/2017	3.8				2.3		
4/25/2017		4	330	1.8			
4/26/2017	4.8				2.3		
5/17/2017	3.9						
6/7/2017	3.2				2.5		
7/11/2017	4.1				2.3		
8/9/2017		3.6	330	1.4			
8/10/2017					2.5		
10/11/2017	2.2	5	320	1.5			
10/12/2017					2.3		
6/14/2018	2.8	4.3	290	1.5	2.4		
10/3/2018		4.8					
10/4/2018	2.2		290	1.5	2.6		
4/2/2019					2.5		
4/3/2019	2.4						
4/4/2019		3.7	170	1.4			
9/18/2019	2.2	3.2	100	1.5	2.7		
3/18/2020		1.7	93	1.5			
3/19/2020	1.9						
5/4/2020					2.8		
9/23/2020		1.5	58	1.2	2.6		
9/24/2020	3.1						
3/8/2021						70	
3/9/2021							58
3/11/2021	2.6		49	1.3	2.9		
3/12/2021		1.6					
4/7/2021							50
4/8/2021						57	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-22	WGWC-23	WGWC-24	WGWC-25
3/8/2021				74
3/9/2021	2.9	3.5	110	
4/7/2021		3.7	110	
4/8/2021	2.4			77

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.002	<0.002	<0.002				
5/18/2016				<0.002	<0.002	<0.002	<0.002
7/19/2016	<0.002	<0.002	<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		<0.002
9/14/2016						0.0031	
11/9/2016	<0.002	<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		<0.002
1/19/2017		<0.002				<0.002	
3/13/2017	<0.002		<0.002				
3/14/2017		<0.002		<0.002	<0.002	<0.002	<0.002
4/24/2017	<0.002		<0.002				
4/25/2017		<0.002		<0.002	<0.002	<0.002	<0.002
8/8/2017	<0.002	<0.002	<0.002	<0.002			<0.002
8/9/2017					<0.002	<0.002	
3/27/2018	<0.002		<0.002				
3/28/2018		0.0049		<0.002	<0.002	<0.002	<0.002
6/13/2018	<0.002	<0.002				<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					
10/2/2018							<0.002
10/3/2018				<0.002	<0.002	<0.002	
2/25/2019	0.0016 (J)		<0.002				
2/26/2019		0.0016 (J)		<0.002	0.0021 (J)	<0.002	0.0023 (J)
4/1/2019	<0.002		<0.002				
4/2/2019		<0.002		<0.002	<0.002	<0.002	<0.002
9/16/2019	0.0016 (J)					<0.002	<0.002
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	<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	<0.002	<0.002
9/21/2020			<0.002	<0.002	<0.002		
9/22/2020	<0.002	<0.002				<0.002	<0.002
2/2/2021	<0.002	<0.002	<0.002	<0.002	<0.002		
2/3/2021						<0.002	<0.002
3/10/2021		<0.002	<0.002	<0.002	<0.002	<0.002	
3/11/2021	<0.002						<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	<0.002			<0.002			
5/19/2016		<0.002	<0.002		<0.002	<0.002	<0.002
7/19/2016	<0.002						
7/20/2016		<0.002	<0.002	0.0012 (J)	<0.002	<0.002	<0.002
9/13/2016	<0.002						
9/14/2016			<0.002	<0.002	<0.002	<0.002	<0.002
9/15/2016		<0.002					
11/10/2016	<0.002						<0.002
11/11/2016				0.0015 (J)	<0.002	<0.002	
11/14/2016		<0.002					
1/18/2017	<0.002						
1/27/2017					<0.002	<0.002	<0.002
2/6/2017		<0.002		0.0011 (J)			
2/9/2017			<0.002				
3/14/2017	<0.002						
3/15/2017		<0.002	<0.002	0.0015 (J)	<0.002	<0.002	<0.002
4/11/2017			<0.002				
4/25/2017	<0.002						
4/26/2017		<0.002	<0.002	0.0013 (J)	0.0011 (J)	<0.002	<0.002
8/8/2017	<0.002						
8/9/2017							<0.002
8/10/2017		<0.002	<0.002	0.0016 (J)	<0.002	<0.002	
3/28/2018	<0.002						
3/29/2018		<0.002	<0.002		0.0012 (J)	<0.002	<0.002
3/30/2018				0.0027			
6/14/2018	<0.002	<0.002	<0.002	0.0023 (J)	<0.002	<0.002	<0.002
10/3/2018	<0.002						
10/4/2018		<0.002	<0.002	0.0031	<0.002	<0.002	<0.002
2/26/2019	<0.002						
2/27/2019		<0.002		0.0031	0.0021 (J)	<0.002	0.0018 (J)
2/28/2019			0.0025				
4/2/2019	<0.002						
4/3/2019		<0.002	<0.002		<0.002	<0.002	<0.002
4/4/2019				0.0021 (J)			
9/18/2019	<0.002						<0.002
9/19/2019		<0.002	<0.002	0.0022	<0.002	<0.002	
2/5/2020	<0.002		<0.002	0.0022	<0.002	<0.002	<0.002
2/7/2020		<0.002					
3/17/2020	<0.002						
3/18/2020				<0.002	<0.002	<0.002	
3/19/2020		<0.002	<0.002				<0.002
9/22/2020	<0.002	<0.002					
9/23/2020			<0.002	0.0018 (J)		<0.002	
9/24/2020					<0.002		<0.002
2/2/2021	<0.002						
2/3/2021		<0.002			<0.002	<0.002	
2/4/2021			<0.002	0.0018 (J)			<0.002
3/10/2021	<0.002						
3/11/2021		<0.002		0.0023			0.0019 (J)
3/12/2021			<0.002		0.0017 (J)	<0.002	

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
5/18/2016		<0.002	<0.002	<0.002	
7/19/2016		<0.002	<0.002		
7/20/2016				<0.002	
9/14/2016		<0.002	<0.002	<0.002	
11/10/2016		<0.002	<0.002	<0.002	
11/11/2016					<0.002
1/20/2017				<0.002	
1/24/2017		<0.002	<0.002		
2/6/2017					<0.002
2/8/2017	<0.002				
2/23/2017	<0.002				
3/14/2017		<0.002		<0.002	
3/15/2017			<0.002		<0.002
3/17/2017	<0.002				
4/11/2017	<0.002				<0.002
4/25/2017		<0.002	<0.002	<0.002	
4/26/2017	<0.002				<0.002
5/17/2017	<0.002				
6/7/2017	<0.002				<0.002
7/11/2017	<0.002				<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
3/30/2018		<0.002		<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
2/26/2019				<0.002	
2/27/2019	<0.002	0.0015 (J)	<0.002		
2/28/2019					<0.002
4/2/2019					<0.002
4/3/2019	<0.002				
4/4/2019		<0.002	<0.002	<0.002	
9/18/2019	<0.002	<0.002	<0.002	<0.002	<0.002
2/5/2020	0.0017 (J)				
2/7/2020		<0.002	<0.002	<0.002	<0.002
3/18/2020		<0.002	<0.002	<0.002	
3/19/2020	<0.002				
5/4/2020					<0.002
9/23/2020		<0.002	<0.002	<0.002	<0.002
9/24/2020	<0.002				
2/3/2021					<0.002
2/4/2021	<0.002	<0.002	<0.002	<0.002	
3/11/2021	<0.002		<0.002	<0.002	<0.002
3/12/2021		<0.002			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025				
5/18/2016				<0.0025	<0.0025	<0.0025	<0.0025
7/19/2016	0.0014 (J)	0.0019 (J)	0.00086 (J)			0.0014 (J)	<0.0025
7/20/2016				<0.0025	<0.0025		
9/13/2016	0.0015 (J)	0.0032	0.00095 (J)	<0.0025	<0.0025		<0.0025
9/14/2016						0.013	
11/9/2016	0.0012 (J)	0.0039	0.0011 (J)				<0.0025
11/10/2016				<0.0025	<0.0025		
1/17/2017	0.001 (J)		<0.0025				
1/18/2017				<0.0025	<0.0025		<0.0025
1/19/2017		0.0032				0.064 (O)	
3/13/2017	0.0011 (J)		0.00087 (J)				
3/14/2017		0.0045		<0.0025	<0.0025	0.0066	0.0018 (J)
4/24/2017	0.001 (J)		0.0014 (J)				
4/25/2017		0.002 (J)		<0.0025	<0.0025	0.0026	<0.0025
8/8/2017	0.0011 (J)	0.0031	0.0012 (J)	<0.0025			<0.0025
8/9/2017					<0.0025	0.0025	
3/27/2018	0.00091 (J)		0.0012 (J)				
3/28/2018		0.0013 (J)		<0.0025	<0.0025	0.0015 (J)	<0.0025
6/13/2018	0.00094 (J)	0.0021 (J)				0.0011 (J)	<0.0025
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)					
10/2/2018							<0.0025
10/3/2018				<0.0025	<0.0025	0.0013 (J)	
2/25/2019	0.00085 (J)		0.00083 (J)				
2/26/2019		0.00026 (J)		<0.0025	0.00029 (J)	0.0006 (J)	0.00031 (J)
4/1/2019	0.00079 (J)		0.00082 (J)				
4/2/2019		<0.0025		<0.0025	<0.0025	0.00046 (J)	<0.0025
9/16/2019	0.00082					0.0035	9.1E-05 (J)
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	0.00082	<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	0.00066 (J)	0.00014 (J)
9/21/2020			0.00054 (J)	<0.0025	<0.0025		
9/22/2020	0.00072 (J)	0.00033 (J)				0.0065	<0.0025
2/2/2021	0.00082 (J)	0.0018 (J)	0.00069 (J)	<0.0025	<0.0025		
2/3/2021						0.0015 (J)	<0.0025
3/10/2021		0.0015 (J)	0.00073 (J)	<0.0025	<0.0025	0.0011 (J)	
3/11/2021	0.00081 (J)						<0.0025

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	<0.0025			0.00201 (J)			
5/19/2016		<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
7/19/2016	<0.0025						
7/20/2016		<0.0025	<0.0025	0.00066 (J)	0.0025	0.0013 (J)	<0.0025
9/13/2016	<0.0025						
9/14/2016			<0.0025	0.00095 (J)	<0.0025	0.00098 (J)	<0.0025
9/15/2016		<0.0025					
11/10/2016	0.00055 (J)						<0.0025
11/11/2016				0.001 (J)	0.00052 (J)	0.0017 (J)	
11/14/2016		<0.0025					
1/18/2017	0.00097 (J)						
1/27/2017					0.00049 (J)	0.0022 (J)	<0.0025
2/6/2017		<0.0025		0.00072 (J)			
2/9/2017			0.00073 (J)				
3/14/2017	<0.0025						
3/15/2017		<0.0025	<0.0025	0.00062 (J)	0.00064 (J)	0.0016 (J)	<0.0025
4/11/2017			<0.0025				
4/25/2017	<0.0025						
4/26/2017		<0.0025	<0.0025	0.0014 (J)	0.001 (J)	0.00026 (J)	<0.0025
8/8/2017	<0.0025						
8/9/2017							0.0004 (J)
8/10/2017		<0.0025	<0.0025	<0.0025	0.0011 (J)	0.00049 (J)	
3/28/2018	<0.0025						
3/29/2018		0.00066 (J)	<0.0025		<0.0025	0.0008 (J)	0.0008 (J)
3/30/2018				0.0035			
6/14/2018	<0.0025	0.0011 (J)	<0.0025	0.0012 (J)	<0.0025	0.00067 (J)	0.00054 (J)
10/3/2018	<0.0025						
10/4/2018		<0.0025	<0.0025	0.00086 (J)	<0.0025	0.00079 (J)	<0.0025
2/26/2019	0.00017 (J)						
2/27/2019		0.0019 (J)		0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)
2/28/2019			<0.0025				
4/2/2019	<0.0025						
4/3/2019		0.0037	<0.0025		0.00081 (J)	0.00043 (J)	<0.0025
4/4/2019				0.0017 (J)			
9/18/2019	0.0002 (J)						<0.0025
9/19/2019		0.0028	<0.0025	0.0023	<0.0025	0.00028 (J)	
2/5/2020	0.00021 (J)		<0.0025	0.0013	0.00026 (J)	0.00058	<0.0025
2/7/2020		0.0011					
3/17/2020	0.00065 (J)						
3/18/2020				0.0012 (J)	0.00069 (J)	0.00071 (J)	
3/19/2020		0.00092 (J)	<0.0025				<0.0025
9/22/2020	0.00015 (J)	0.00065 (J)					
9/23/2020			<0.0025	0.00062 (J)		0.00039 (J)	
9/24/2020					<0.0025		0.00032 (J)
2/2/2021	<0.0025						
2/3/2021		0.00014 (J)			0.00072 (J)	0.00017 (J)	
2/4/2021			<0.0025	0.00059 (J)			<0.0025
3/10/2021	<0.0025						
3/11/2021		0.00043 (J)		0.00058 (J)			<0.0025
3/12/2021			<0.0025		0.0022 (J)	0.00042 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
5/18/2016		<0.0025	0.0069	0.00245 (J)	
7/19/2016		<0.0025	0.012		
7/20/2016				0.0018 (J)	
9/14/2016		<0.0025	0.013	0.0014 (J)	
11/10/2016		<0.0025	0.016	0.0016 (J)	
11/11/2016					<0.0025
1/20/2017				0.0014 (J)	
1/24/2017		<0.0025	0.015		
2/6/2017					0.00058 (J)
2/8/2017	0.0051				
2/23/2017	0.014				
3/14/2017		<0.0025		0.0023 (J)	
3/15/2017			0.014		0.00045 (J)
3/17/2017	0.013				
4/11/2017	0.016				<0.0025
4/25/2017		<0.0025	0.014	0.0023 (J)	
4/26/2017	0.01				<0.0025
5/17/2017	0.011				
6/7/2017	0.01				<0.0025
7/11/2017	0.0085				<0.0025
8/9/2017		<0.0025	0.016	0.0011 (J)	
8/10/2017					0.00049 (J)
3/29/2018	0.015		0.0092		<0.0025
3/30/2018		<0.0025		0.0016 (J)	
6/14/2018	0.011	<0.0025	0.0035	0.00055 (J)	<0.0025
10/3/2018		<0.0025			
10/4/2018	0.0055		0.0078	0.00041 (J)	<0.0025
2/26/2019				0.00086 (J)	
2/27/2019	0.0049	<0.0025	0.00084 (J)		
2/28/2019					0.00019 (J)
4/2/2019					<0.0025
4/3/2019	0.0056				
4/4/2019		<0.0025	0.00077 (J)	<0.0025	
9/18/2019	0.005	<0.0025	0.00011 (J)	0.00018 (J)	0.00045 (J)
2/5/2020	0.0044				
2/7/2020		<0.0025	0.00016 (J)	0.00077	0.00024 (J)
3/18/2020		<0.0025	0.00016 (J)	0.00052 (J)	
3/19/2020	0.0039				
5/4/2020					0.00018 (J)
9/23/2020		<0.0025	<0.0025	0.0009 (J)	0.00024 (J)
9/24/2020	0.0035				
2/3/2021					0.00025 (J)
2/4/2021	0.0041	0.00015 (J)	0.00026 (J)	0.00042 (J)	
3/11/2021	0.0037		0.00013 (J)	0.00035 (J)	0.00022 (J)
3/12/2021		<0.0025			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.0525 (U)	0.184 (U)	0.13 (U)				
5/18/2016				0.025 (U)	1.04	0.325 (U)	8
7/19/2016	7.25 (O)	0.27 (U)	0.121 (U)			0.433 (U)	7.69
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		6.98
11/9/2016	0.221 (U)	0.219 (U)	0.217 (U)				8.78
11/10/2016				0.421	1.13		
1/17/2017	0.295 (U)		0.595				
1/18/2017				0.434 (U)	1.76		10.4
1/19/2017		0.0745 (U)				0.216 (U)	
3/13/2017	-0.13 (U)		-0.147 (U)				
3/14/2017		0.194 (U)		0.167 (U)	0.788	0.119 (U)	0.589 (O)
4/24/2017	0.36 (U)		0.367				
4/25/2017		0.109 (U)		0.224 (U)	1.13	0.105 (U)	8.22
8/8/2017	0.382	0.0842 (U)	0.402	0.127 (U)			7.21
8/9/2017					1.31	0.385 (U)	
3/27/2018	0.475		0.453				
3/28/2018		0.424		0.15 (U)	1.32	0.492	7.52
6/13/2018	-0.0181 (U)	0.401				0.275 (U)	8.77
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					
10/2/2018							8.72
10/3/2018				0.178 (U)	0.943	0.72	
2/25/2019	0.394		0.44				
2/26/2019		0.307 (U)		0.179 (U)	0.65	0.113 (U)	8.93
4/1/2019	0.169 (U)		-0.00216 (U)				
4/2/2019		0.0436 (U)		0.361	0.602	0.255 (U)	7.8
9/16/2019	0.31 (U)					0.318 (U)	8.55
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	0.198 (U)	8.3
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	0.207 (U)	8.88
9/21/2020			0.418 (U)	0.0688 (U)	1.07		
9/22/2020	0.729	0.557 (U)				0.954	7.65
2/2/2021	0.243 (U)	0.354 (U)	0.202 (U)	0.182 (U)	1.05		
2/3/2021						-0.314 (U)	9.99
3/10/2021		0.218 (U)	0.378 (U)	-0.177 (U)	1.47	0.144 (U)	
3/11/2021	0.046 (U)						9.2

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	0.268 (U)			0.182 (U)			
5/19/2016		0.711 (U)	0.209 (U)		0.431 (U)	0.0698 (U)	0.219 (U)
7/19/2016	0.369 (U)						
7/20/2016		1.14	-0.084 (U)	-0.135 (U)	-0.263 (U)	-0.0646 (U)	0.404 (U)
9/13/2016	0.527 (U)						
9/14/2016			0.42 (U)	0.311 (U)	0.13 (U)	0.199 (U)	0.692
9/15/2016		1.26					
11/10/2016	0.871						1
11/11/2016				0.542	0.0257 (U)	0.467	
11/14/2016		0.749					
1/18/2017	0.213 (U)						
1/27/2017					0.898	0.836	0.668
2/6/2017		1.05		0.104 (U)			
2/9/2017			0.393				
3/14/2017	0.0192 (U)						
3/15/2017		1.32	0.271 (U)	0.523	0.121 (U)	0.254 (U)	0.847
4/11/2017			0.488 (U)				
4/25/2017	0.0872 (U)						
4/26/2017		1.07	0.14 (U)	0.069 (U)	0.0309 (U)	0.267 (U)	0.408 (U)
8/8/2017	0.219 (U)						
8/9/2017							0.816
8/10/2017		1.88	0.379	0.189 (U)	0.326 (U)	0.912	
3/28/2018	0.315 (U)						
3/29/2018		2.31	0.278 (U)		0.461	0.419	0.51
3/30/2018				0.575			
6/14/2018	0.41	1.86	0.157 (U)	0.523	0.275 (U)	-0.263 (U)	0.463
10/3/2018	0.65						
10/4/2018		2.44	0.48	0.84	1.18	1.29	0.99
2/26/2019	0.395						
2/27/2019		2.42		0.236 (U)	0.374	0.415	1.08
2/28/2019			0.271 (U)				
4/2/2019	0.182 (U)						
4/3/2019		1.55	0.0621 (U)		0.187 (U)	0.264 (U)	0.446
4/4/2019				0.233 (U)			
9/18/2019	0.299 (U)						0.392
9/19/2019		2.06	0.537	0.124 (U)	0.338 (U)	0.329 (U)	
2/5/2020	-0.0263 (U)		-0.137 (U)	0.0961 (U)	0.163 (U)	0.225 (U)	0.609
2/7/2020		1.66					
3/17/2020	0.258 (U)						
3/18/2020				0.461 (U)	0.866	-0.0262 (U)	
3/19/2020		1.21	0.23 (U)				0.47
9/22/2020	0.0523 (U)	1.75					
9/23/2020			0.0587 (U)	0.442 (U)		0.785	
9/24/2020					1.2		1.02
2/2/2021	0.167 (U)						
2/3/2021		2			0.718	0.322 (U)	
2/4/2021			0.353 (U)	0.0332 (U)			0.139 (U)
3/10/2021	0.224 (U)						
3/11/2021		2.38		0.42 (U)			0.473
3/12/2021			0.831		0.0729 (U)	0.633	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
5/18/2016		0.569	1.03	0.116 (U)	
7/19/2016		0.29 (U)	2.39		
7/20/2016				0.247 (U)	
9/14/2016		0.412 (U)	3.05	0.594	
11/10/2016		0.709	2.87	0.431	
11/11/2016					-0.11 (U)
1/20/2017				1.35	
1/24/2017		0.779	2.68		
2/6/2017					0.471
2/8/2017	0.958				
2/23/2017	0.771				
3/14/2017		0.247 (U)		-0.107 (U)	
3/15/2017			1.64		0.255 (U)
3/17/2017	1.7				
4/11/2017	0.901				0.19 (U)
4/25/2017		0.515	0.878	0.228 (U)	
4/26/2017	0.434				0.22 (U)
5/17/2017	0.632				
6/7/2017	1.06				0.126 (U)
7/11/2017	0.716				0.511
8/9/2017		1.7	2.5	-0.0246 (U)	
8/10/2017					0.882
3/29/2018	0.58		1.6		0.252 (U)
3/30/2018		0.0985 (U)		0.135 (U)	
6/14/2018	0.55	0.171 (U)	1.09	-0.373 (U)	0.0458 (U)
10/3/2018		0.766			
10/4/2018	0.563		1.99	0.775	0.381
2/26/2019				0.431	
2/27/2019	0.538	0.363 (U)	0.721		
2/28/2019					0.254 (U)
4/2/2019					0.209 (U)
4/3/2019	0.497				
4/4/2019		0.418	0.632	0.386	
9/18/2019	0.376 (U)	0.484	0.278 (U)	0.167 (U)	0.403 (U)
2/5/2020	0.5				
2/7/2020		0.125 (U)	0.797	0.244 (U)	0.2 (U)
3/18/2020		0.303 (U)	0.437	0.0655 (U)	
3/19/2020	0.376 (U)				
5/4/2020					0.0697 (U)
9/23/2020		0.448 (U)	0.276 (U)	0.643	1.18
9/24/2020	0.796				
2/3/2021					0.684
2/4/2021	0.564	0.488 (U)	0.727	0.438 (U)	
3/11/2021	0.764		0.942	0.247 (U)	0.286 (U)
3/12/2021		0.591			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.0131 (J)	0.284 (J)	0.0538 (J)				
5/18/2016				0.029 (J)	0.164 (J)	0.014 (J)	0.106 (J)
7/19/2016	<0.1	0.21	<0.1			<0.1	0.11 (J)
7/20/2016				<0.1	0.17 (J)		
9/13/2016	<0.1	0.15 (J)	<0.1	<0.1	0.15 (J)		0.11 (J)
9/14/2016						0.095 (J)	
11/9/2016	<0.1	<0.1	0.085 (J)				0.1 (J)
11/10/2016				<0.1	0.12 (J)		
1/17/2017	<0.1		<0.1				
1/18/2017				<0.1	0.15 (J)		0.11 (J)
1/19/2017		0.087 (J)				<0.1	
3/13/2017	<0.1		<0.1				
3/14/2017		<0.1		<0.1	0.13 (J)	<0.1	<0.1
4/24/2017	<0.1		<0.1				
4/25/2017		<0.1		<0.1	0.12 (J)	<0.1	<0.1
8/8/2017	<0.1	0.087 (J)	<0.1	<0.1			0.099 (J)
8/9/2017					0.14 (J)	<0.1	
10/10/2017	<0.1		0.18 (J)				
10/11/2017		0.09 (J)		<0.1	0.14 (J)	<0.1	0.098 (J)
3/27/2018	<0.1		<0.1				
3/28/2018		0.11 (J)		<0.1	0.12 (J)	<0.1	0.088 (J)
6/13/2018	<0.1	0.085 (J)				<0.1	0.093 (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)					
10/2/2018							0.13 (J)
10/3/2018				<0.1	0.13 (J)	<0.1	
2/25/2019	<0.1		0.032 (J)				
2/26/2019		0.23		<0.1	0.14 (J)	<0.1	0.074 (J)
4/1/2019	<0.1		0.061 (J)				
4/2/2019		0.21		0.039 (J)	0.14 (J)	<0.1	0.09 (J)
9/16/2019	0.03 (J)					<0.1	0.1 (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	<0.1	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	<0.1	0.037 (J)
9/21/2020			0.037 (J)	<0.1	0.091 (J)		
9/22/2020	<0.1	0.1				<0.1	0.068 (J)
2/2/2021	0.028 (J)	0.071 (J)	0.065 (J)	0.035 (J)	0.15		
2/3/2021						<0.1	0.088 (J)
3/10/2021		0.046 (J)	0.045 (J)	<0.1	0.12	<0.1	
3/11/2021	<0.1						0.092 (J)

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	0.018 (J)			0.206			
5/19/2016		0.304	1.58		0.039 (J)	0.12 (J)	0.384
7/19/2016	<0.1						
7/20/2016		0.27	2	0.23	<0.1	0.11 (J)	0.34
9/13/2016	<0.1						
9/14/2016			1.8	0.17 (J)	<0.1	0.095 (J)	0.31
9/15/2016		0.24					
11/10/2016	<0.1						0.26
11/11/2016				0.14 (J)	<0.1	<0.1	
11/14/2016		0.2					
1/18/2017	<0.1						
1/27/2017					<0.1	<0.1	0.28
2/6/2017		0.27		0.15 (J)			
2/9/2017			1.3				
3/14/2017	<0.1						
3/15/2017		0.25	1.3	0.16 (J)	<0.1	<0.1	0.3
4/11/2017			1.4				
4/25/2017	<0.1						
4/26/2017		0.31	1.5	0.17 (J)	<0.1	<0.1	0.33
8/8/2017	<0.1						
8/9/2017							0.32
8/10/2017		0.37	1.6	0.2	<0.1	0.11 (J)	
10/11/2017	<0.1						
10/12/2017		0.35	1.5	0.14 (J)	<0.1	0.091 (J)	0.28
3/28/2018	<0.1						
3/29/2018		0.36	1.4		<0.1	0.089 (J)	0.27
3/30/2018				0.13 (J)			
6/14/2018	<0.1	0.56	1.4	0.15 (J)	<0.1	0.1 (J)	0.27
10/3/2018	<0.1						
10/4/2018		0.27	1.4	0.18 (J)	<0.1	0.12 (J)	0.23
2/26/2019	<0.1						
2/27/2019		0.054 (J)		0.21	0.047 (J)	0.06 (J)	0.25
2/28/2019			1.4				
4/2/2019	<0.1						
4/3/2019		0.5	1.3		0.048 (J)	0.084 (J)	0.24
4/4/2019				0.13 (J)			
9/18/2019	0.027 (J)						0.22
9/19/2019		0.42	1.3	0.13 (J)	0.037 (J)	0.093 (J)	
2/5/2020	0.026 (J)		1.3	0.14	0.045 (J)	0.098 (J)	0.2
2/7/2020		0.25					
3/17/2020	0.044 (J)						
3/18/2020				0.052 (J)	<0.1	0.033 (J)	
3/19/2020		0.057 (J)	1				0.15
9/22/2020	<0.1	0.14					
9/23/2020			0.82	0.09 (J)		0.064 (J)	
9/24/2020					0.18		<0.1
2/2/2021	<0.1						
2/3/2021		0.15			0.027 (J)	0.082 (J)	
2/4/2021			0.91	0.12			0.16
3/10/2021	<0.1						
3/11/2021		0.16		0.15			0.18
3/12/2021			0.98		0.044 (J)	0.096 (J)	

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
5/18/2016		0.779	0.1 (J)	0.121 (J)			
7/19/2016		0.97	0.14 (J)				
7/20/2016				0.16 (J)			
9/14/2016		0.89	0.18 (J)	0.19 (J)			
11/10/2016		0.88	0.11 (J)	0.15 (J)			
11/11/2016					0.32		
1/20/2017				0.18 (J)			
1/24/2017		0.92	0.15 (J)				
2/6/2017					0.45		
2/8/2017	<0.1						
2/23/2017	<0.1						
3/14/2017		0.77		0.11 (J)			
3/15/2017			0.1 (J)		0.37		
3/17/2017	<0.1						
4/11/2017	<0.1				0.37		
4/25/2017		0.95	0.13 (J)	0.13 (J)			
4/26/2017	<0.1				0.4		
5/17/2017	<0.1						
6/7/2017	<0.1				0.35		
7/11/2017	<0.1				0.39		
8/9/2017		0.91	0.18 (J)	0.19 (J)			
8/10/2017					0.42		
10/11/2017	<0.1	0.88	<0.1	0.14 (J)			
10/12/2017					0.36		
3/29/2018	<0.1		0.13 (J)		0.34		
3/30/2018		0.79		0.095 (J)			
6/14/2018	<0.1	0.79	<0.1	0.11 (J)	0.35		
10/3/2018		0.79					
10/4/2018	<0.1		0.85 (J)	0.11 (J)	0.35		
2/26/2019				0.068 (J)			
2/27/2019	<0.1	0.81	0.47				
2/28/2019					0.28		
4/2/2019					0.33		
4/3/2019	0.048 (J)						
4/4/2019		0.78	0.08 (J)	0.087 (J)			
9/18/2019	0.035 (J)	0.81	0.058 (J)	0.066 (J)	0.32		
2/5/2020	0.04 (J)						
2/7/2020		0.79	0.072 (J)	0.079 (J)	0.35		
3/18/2020		0.71	0.084 (J)	<0.1			
3/19/2020	<0.1						
5/4/2020					0.36		
9/23/2020		0.63	0.049 (J)	0.05 (J)	0.25		
9/24/2020	0.028 (J)						
2/3/2021					0.3		
2/4/2021	0.033 (J)	0.69	0.052 (J)	0.064 (J)			
3/8/2021					1.8		
3/9/2021							1.7
3/11/2021	0.04 (J)		0.061 (J)	0.05 (J)	0.31		
3/12/2021		0.88					
4/7/2021							1.6
4/8/2021					1.7		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-22	WGWC-23	WGWC-24	WGWC-25
3/8/2021				<0.1
3/9/2021	1.1	0.092 (J)	1	
4/7/2021		0.093 (J)	1.1	
4/8/2021	1.4			0.028 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.001	<0.001	<0.001				
5/18/2016				<0.001	<0.001	<0.001	<0.001
7/19/2016	<0.001	<0.001	<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		<0.001
9/14/2016						<0.001	
11/9/2016	<0.001	<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		<0.001
1/19/2017		<0.001				<0.001	
3/13/2017	<0.001		<0.001				
3/14/2017		<0.001		<0.001	<0.001	<0.001	<0.001
4/24/2017	<0.001		<0.001				
4/25/2017		<0.001		<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001			<0.001
8/9/2017					<0.001	<0.001	
3/27/2018	<0.001		<0.001				
3/28/2018		<0.001		<0.001	<0.001	<0.001	<0.001
2/25/2019	<0.001		0.00019 (J)				
2/26/2019		<0.001		<0.001	0.00046 (J)	0.00028 (J)	0.00037 (J)
4/1/2019	<0.001		<0.001				
4/2/2019		<0.001		<0.001	<0.001	<0.001	<0.001
9/16/2019	<0.001					<0.001	<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)	0.00024 (J)	<0.001
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)	<0.001	0.00017 (J)
9/21/2020			<0.001	<0.001	<0.001		
9/22/2020	<0.001	<0.001				<0.001	<0.001
2/2/2021	0.00015 (J)	<0.001	0.00015 (J)	<0.001	<0.001		
2/3/2021						0.00019 (J)	<0.001
3/10/2021		<0.001	0.00019 (J)	<0.001	<0.001	<0.001	
3/11/2021	<0.001						<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	<0.001			<0.001			
5/19/2016		<0.001	<0.001		<0.001	<0.001	<0.001
7/19/2016	<0.001						
7/20/2016		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/13/2016	<0.001						
9/14/2016			<0.001	<0.001	<0.001	<0.001	0.00055 (J)
9/15/2016		<0.001					
11/10/2016	<0.001						0.00047 (J)
11/11/2016				<0.001	<0.001	<0.001	
11/14/2016		<0.001					
1/18/2017	<0.001						
1/27/2017					<0.001	<0.001	<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	<0.001	<0.001	<0.001
4/11/2017			<0.001				
4/25/2017	<0.001						
4/26/2017		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001						
8/9/2017							<0.001
8/10/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
3/28/2018	<0.001						
3/29/2018		<0.001	<0.001		<0.001	<0.001	<0.001
3/30/2018				<0.001			
2/26/2019	<0.001						
2/27/2019		0.00017 (J)		0.00023 (J)	0.00058 (J)	<0.001	0.00068 (J)
2/28/2019			0.00014 (J)				
4/2/2019	<0.001						
4/3/2019		<0.001	<0.001		<0.001	<0.001	0.00047 (J)
4/4/2019				<0.001			
9/18/2019	<0.001						0.00045 (J)
9/19/2019		<0.001	<0.001	0.00041 (J)	<0.001	<0.001	
2/5/2020	<0.001		<0.001	0.00016 (J)	<0.001	<0.001	0.00045 (J)
2/7/2020		<0.001					
3/17/2020	<0.001						
3/18/2020				0.00021 (J)	<0.001	<0.001	
3/19/2020		0.00016 (J)	<0.001				0.0006 (J)
9/22/2020	<0.001	0.00013 (J)					
9/23/2020			<0.001	0.00013 (J)		<0.001	
9/24/2020					0.00037 (J)		<0.001
2/2/2021	<0.001						
2/3/2021		0.00013 (J)			<0.001	<0.001	
2/4/2021			<0.001	0.00019 (J)			0.00038 (J)
3/10/2021	<0.001						
3/11/2021		<0.001		0.00032 (J)			0.00075 (J)
3/12/2021			<0.001		0.00038 (J)	<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
5/18/2016		<0.001	<0.001	<0.001	
7/19/2016		<0.001	<0.001		
7/20/2016				<0.001	
9/14/2016		<0.001	<0.001	<0.001	
11/10/2016		<0.001	<0.001	<0.001	
11/11/2016					<0.001
1/20/2017				<0.001	
1/24/2017		<0.001	<0.001		
2/6/2017					<0.001
2/8/2017	<0.001				
2/23/2017	<0.001				
3/14/2017		<0.001		<0.001	
3/15/2017			<0.001		<0.001
3/17/2017	<0.001				
4/11/2017	<0.001				<0.001
4/25/2017		<0.001	<0.001	<0.001	
4/26/2017	<0.001				<0.001
5/17/2017	<0.001				
6/7/2017	<0.001				<0.001
7/11/2017	<0.001				<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
3/30/2018		<0.001		<0.001	
2/26/2019				0.00033 (J)	
2/27/2019	<0.001	<0.001	0.00014 (J)		
2/28/2019					<0.001
4/2/2019					<0.001
4/3/2019	<0.001				
4/4/2019		<0.001	<0.001	<0.001	
9/18/2019	<0.001	<0.001	<0.001	<0.001	<0.001
2/5/2020	<0.001				
2/7/2020		<0.001	<0.001	<0.001	<0.001
3/18/2020		<0.001	<0.001	0.0002 (J)	
3/19/2020	0.00017 (J)				
5/4/2020					<0.001
9/23/2020		<0.001	<0.001	<0.001	<0.001
9/24/2020	0.00018 (J)				
2/3/2021					<0.001
2/4/2021	0.00013 (J)	0.0003 (J)	0.00013 (J)	<0.001	
3/11/2021	0.00031 (J)		<0.001	<0.001	<0.001
3/12/2021		<0.001			

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
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	<0.005	<0.005	0.005			<0.005	0.0043 (J)
7/20/2016				<0.005	0.0041 (J)		
9/13/2016	<0.005	<0.005	0.0075	<0.005	0.0042 (J)		0.0045 (J)
9/14/2016						<0.005	
11/9/2016	0.0032 (J)	<0.005	0.0078				0.0036 (J)
11/10/2016				<0.005	0.0048 (J)		
1/17/2017	<0.005		0.009				
1/18/2017				<0.005	0.0033 (J)		0.0046 (J)
1/19/2017		<0.005				<0.005	
3/13/2017	<0.005		0.0069				
3/14/2017		<0.005		<0.005	0.0033 (J)	<0.005	0.0038 (J)
4/24/2017	<0.005		0.0049 (J)				
4/25/2017		<0.005		<0.005	0.0037 (J)	<0.005	<0.005
8/8/2017	0.0032 (J)	<0.005	0.0075	<0.005			0.0043 (J)
8/9/2017					0.0042 (J)	<0.005	
3/27/2018	0.0045 (J)		0.0081				
3/28/2018		0.0012 (J)		0.0013 (J)	0.0056	<0.005	0.0064
6/13/2018	0.0033 (J)	<0.005				<0.005	0.0041 (J)
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)					
10/2/2018							0.0038 (J)
10/3/2018				0.0012 (J)	0.005	<0.005	
2/25/2019	0.0049 (J)		0.0072				
2/26/2019		<0.005		<0.005	0.0069	<0.005	0.0068
4/1/2019	0.0044 (J)		0.0055				
4/2/2019		0.0012 (J)		<0.005	0.0036 (J)	0.0016 (J)	0.0052
9/16/2019	0.004 (J)					0.028 (O)	0.032 (O)
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	<0.005	0.0053
2/5/2020		<0.005					
3/16/2020	0.0053		0.0083				
3/17/2020		<0.005		<0.005	0.0059	<0.005	0.0055
9/21/2020			0.0075	<0.005	0.005		
9/22/2020	0.0036 (J)	<0.005				<0.005	0.0049 (J)
2/2/2021	<0.005	<0.005	0.0065	<0.005	0.0039 (J)		
2/3/2021						<0.005	0.0047 (J)
3/10/2021		<0.005	0.0075	<0.005	0.0049 (J)	<0.005	
3/11/2021	0.0039 (J)						0.005

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	<0.05 (O)			0.032			
5/19/2016		0.0215	0.0335		<0.005	<0.005	<0.005
7/19/2016	<0.005						
7/20/2016		0.026	0.024	0.021	<0.005	0.0057	<0.005
9/13/2016	<0.005						
9/14/2016			0.039	0.02	<0.005	0.0077	<0.005
9/15/2016		0.057					
11/10/2016	<0.005						0.0038 (J)
11/11/2016				0.017	<0.005	0.007	
11/14/2016		0.017					
1/18/2017	<0.005						
1/27/2017					<0.005	0.0074	<0.005
2/6/2017		0.012		0.016			
2/9/2017			0.04				
3/14/2017	<0.005						
3/15/2017		0.014	0.035	0.014	<0.005	0.0077	<0.005
4/11/2017			0.034				
4/25/2017	<0.005						
4/26/2017		0.0091	0.029	0.011	<0.005	0.0011	<0.005
8/8/2017	<0.005						
8/9/2017							<0.005
8/10/2017		0.013	0.038	0.011	<0.005	0.0064	
3/28/2018	0.0014 (J)						
3/29/2018		0.018	0.048		0.0018 (J)	0.01	0.0022 (J)
3/30/2018				0.016			
6/14/2018	<0.005	0.015	0.034	0.0084	0.0011 (J)	0.0062	0.0018 (J)
10/3/2018	<0.005						
10/4/2018		0.013	0.039	0.0085	0.0014 (J)	0.0066	0.0025 (J)
2/26/2019	<0.005						
2/27/2019		0.014		0.0068	<0.005	0.0068	<0.005
2/28/2019			0.037				
4/2/2019	<0.005						
4/3/2019		0.015	0.035		<0.005	0.0075	<0.005
4/4/2019				0.0059			
9/18/2019	<0.005						<0.005
9/19/2019		0.014	0.036	0.0075	<0.005	0.0067	
2/5/2020	<0.005		0.034	0.0061	<0.005	0.0063	<0.005
2/7/2020		0.014					
3/17/2020	<0.005						
3/18/2020				0.0071	<0.005	0.0081	
3/19/2020		0.015	0.039				<0.005
9/22/2020	<0.005	0.013					
9/23/2020			0.033	0.0054		0.007	
9/24/2020					<0.005		<0.005
2/2/2021	<0.005						
2/3/2021		0.014			<0.005	0.0075	
2/4/2021			0.035	0.0049 (J)			<0.005
3/10/2021	<0.005						
3/11/2021		0.013		0.0051			0.0037 (J)
3/12/2021			0.034		<0.005	0.0089	

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
5/18/2016		<0.005	<0.005	<0.005			
7/19/2016		0.0036 (J)	0.0091				
7/20/2016				0.0042 (J)			
9/14/2016		<0.005	0.012	0.0058			
11/10/2016		0.0064	0.013	0.0066			
11/11/2016					0.045		
1/20/2017				0.0044 (J)			
1/24/2017		0.0075	0.011				
2/6/2017					0.05		
2/8/2017	0.0039 (J)						
2/23/2017	<0.005						
3/14/2017		0.0057		0.0048 (J)			
3/15/2017			0.01		0.052		
3/17/2017	<0.005						
4/11/2017	<0.005				0.048		
4/25/2017		0.0059	0.0081	0.0049 (J)			
4/26/2017	<0.005				0.044		
5/17/2017	0.0033 (J)						
6/7/2017	<0.005				0.047		
7/11/2017	<0.005				0.045		
8/9/2017		0.0068	0.013	0.0067			
8/10/2017					0.056		
3/29/2018	0.0025 (J)		0.015		0.072		
3/30/2018		0.0077		0.0067			
6/14/2018	0.0018 (J)	0.0052	0.009	0.0046 (J)	0.048		
10/3/2018		0.006					
10/4/2018	0.0016 (J)		0.012	0.005	0.062		
2/26/2019				0.0063			
2/27/2019	<0.005	0.0055	0.0075				
2/28/2019					0.045		
4/2/2019					0.052		
4/3/2019	0.0015 (J)						
4/4/2019		0.0054	0.0077	0.0042 (J)			
9/18/2019	<0.005	0.0054	0.0056	0.0047 (J)	0.052		
2/5/2020	<0.005						
2/7/2020		0.0068	0.0053	0.0045 (J)	0.044		
3/18/2020		0.0086	0.0057	0.0054			
3/19/2020	<0.005						
5/4/2020					0.049		
9/23/2020		0.0071	0.0059	0.0056	0.056		
9/24/2020	<0.005						
2/3/2021					0.06		
2/4/2021	<0.005	0.0086	0.0051	0.0047 (J)			
3/8/2021					0.11		
3/9/2021							0.022
3/11/2021	0.0035 (J)		0.005	0.0049 (J)	0.051		
3/12/2021		0.0096					
4/7/2021							0.031
4/8/2021					0.11		

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-22	WGWC-23	WGWC-24	WGWC-25
3/8/2021				0.0046 (J)
3/9/2021	0.011	<0.005	0.0084	
4/7/2021		<0.005	0.0077	
4/8/2021	0.0081			0.0044 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0002	<0.0002	<0.0002				
5/18/2016				<0.0002	<0.0002	<0.0002	<0.0002
7/19/2016	<0.0002	8.2E-05 (J)	8.1E-05 (J)			8.5E-05 (J)	8.4E-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		<0.0002
9/14/2016						<0.0002	
11/9/2016	<0.0002	<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		<0.0002
1/19/2017		<0.0002				<0.0002	
3/13/2017	<0.0002		<0.0002				
3/14/2017		7.1E-05 (J)		<0.0002	<0.0002	<0.0002	<0.0002
4/24/2017	<0.0002		<0.0002				
4/25/2017		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
8/8/2017	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
8/9/2017					<0.0002	<0.0002	
3/27/2018	<0.0002		<0.0002				
3/28/2018		<0.0002		<0.0002	<0.0002	8.9E-05 (J)	<0.0002
6/13/2018	<0.0002	<0.0002				<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					
10/2/2018							<0.0002
10/3/2018				<0.0002	<0.0002	<0.0002	
2/25/2019	<0.0002		<0.0002				
2/26/2019		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
2/3/2020	<0.0002		<0.0002				
2/4/2020				0.00016 (J)	0.00011 (J)	<0.0002	<0.0002
2/5/2020		<0.0002					
3/16/2020	<0.0002		<0.0002				
3/17/2020		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
9/21/2020			<0.0002	<0.0002	<0.0002		
9/22/2020	<0.0002	<0.0002				<0.0002	<0.0002
2/2/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/3/2021						<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	<0.0002			<0.0002			
5/19/2016		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
7/19/2016	7.2E-05 (J)						
7/20/2016		<0.0002	<0.0002	8.2E-05 (J)	8.2E-05 (J)	0.00011 (J)	8.1E-05 (J)
9/13/2016	<0.0002						
9/14/2016			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/15/2016		0.00011 (J)					
11/10/2016	8.7E-05 (J)						8.3E-05 (J)
11/11/2016				8.5E-05 (J)	0.00011 (J)	7.9E-05 (J)	
11/14/2016		<0.0002					
1/18/2017	<0.0002						
1/27/2017					<0.0002	<0.0002	<0.0002
2/6/2017		7.8E-05 (J)		8.3E-05 (J)			
2/9/2017			<0.0002				
3/14/2017	<0.0002						
3/15/2017		0.00013 (J)	0.00013 (J)	0.00013 (J)	<0.0002	0.00018 (J)	<0.0002
4/11/2017			<0.0002				
4/25/2017	<0.0002						
4/26/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/8/2017	<0.0002						
8/9/2017							<0.0002
8/10/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/28/2018	<0.0002						
3/29/2018		<0.0002	<0.0002		<0.0002	0.00011 (J)	<0.0002
3/30/2018				<0.0002			
6/14/2018	<0.0002	<0.0002	<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	<0.0002	<0.0002
2/26/2019	<0.0002						
2/27/2019		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
2/28/2019			<0.0002				
2/5/2020	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/7/2020		<0.0002					
3/17/2020	<0.0002						
3/18/2020				<0.0002	<0.0002	<0.0002	
3/19/2020		<0.0002	<0.0002				<0.0002
9/22/2020	<0.0002	<0.0002					
9/23/2020			<0.0002	<0.0002		<0.0002	
9/24/2020					<0.0002		<0.0002
2/2/2021	<0.0002						
2/3/2021		<0.0002			<0.0002	<0.0002	
2/4/2021			<0.0002	<0.0002			<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
5/18/2016		<0.0002	<0.0002	<0.0002	
7/19/2016		9.3E-05 (J)	<0.0002		
7/20/2016				7.4E-05 (J)	
9/14/2016		<0.0002	<0.0002	<0.0002	
11/10/2016		8.5E-05 (J)	0.00012 (J)	<0.0002	
11/11/2016					7.6E-05 (J)
1/20/2017				<0.0002	
1/24/2017		<0.0002	7E-05 (J)		
2/6/2017					0.00012 (J)
2/8/2017	<0.0002				
2/23/2017	<0.0002				
3/14/2017		7.1E-05 (J)		<0.0002	
3/15/2017			<0.0002		<0.0002
3/17/2017	0.00013 (J)				
4/11/2017	<0.0002				<0.0002
4/25/2017		<0.0002	0.00019 (J)	<0.0002	
4/26/2017	<0.0002				<0.0002
5/17/2017	<0.0002				
6/7/2017	<0.0002				<0.0002
7/11/2017	<0.0002				<0.0002
8/9/2017		<0.0002	<0.0002	<0.0002	
8/10/2017					<0.0002
3/29/2018	<0.0002		<0.0002		<0.0002
3/30/2018		8.6E-05 (J)		<0.0002	
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
2/26/2019				<0.0002	
2/27/2019	<0.0002	<0.0002	<0.0002		
2/28/2019					<0.0002
2/5/2020	<0.0002				
2/7/2020		<0.0002	<0.0002	<0.0002	<0.0002
3/18/2020		<0.0002	<0.0002	<0.0002	
3/19/2020	<0.0002				
5/4/2020					<0.0002
9/23/2020		<0.0002	<0.0002	<0.0002	<0.0002
9/24/2020	<0.0002				
2/3/2021					<0.0002
2/4/2021	<0.0002	<0.0002	<0.0002	<0.0002	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.015	0.00367 (J)	<0.015				
5/18/2016				<0.015	<0.015	<0.015	<0.015
7/19/2016	<0.015	0.002 (J)	<0.015			<0.015	<0.015
7/20/2016				<0.015	<0.015		
9/13/2016	<0.015	0.0014 (J)	<0.015	<0.015	<0.015		<0.015
9/14/2016						0.016 (O)	
11/9/2016	<0.015	<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		<0.015
1/19/2017		<0.015				<0.015	
3/13/2017	<0.015		<0.015				
3/14/2017		0.0072 (J)		0.00087 (J)	<0.015	<0.015	<0.015
4/24/2017	<0.015		<0.015				
4/25/2017		0.0036 (J)		0.00098 (J)	<0.015	<0.015	<0.015
8/8/2017	0.0017 (J)	<0.015	<0.015	<0.015			<0.015
8/9/2017					<0.015	<0.015	
3/27/2018	<0.015		<0.015				
3/28/2018		0.00089 (J)		<0.015	<0.015	<0.015	<0.015
6/13/2018	<0.015	<0.015				<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					
10/2/2018							<0.015
10/3/2018				<0.015	<0.015	<0.015	
2/25/2019	<0.015		<0.015				
2/26/2019		0.0019 (J)		<0.015	<0.015	<0.015	<0.015
4/1/2019	<0.015		<0.015				
4/2/2019		<0.015		<0.015	<0.015	<0.015	<0.015
9/16/2019	<0.015					0.001 (J)	0.001 (J)
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	<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	<0.015	<0.015
9/21/2020			<0.015	<0.015	<0.015		
9/22/2020	<0.015	0.00097 (J)				0.0025 (J)	<0.015
2/2/2021	<0.015	<0.015	<0.015	<0.015	<0.015		
2/3/2021						<0.015	<0.015
3/10/2021		<0.015	<0.015	<0.015	<0.015	<0.015	
3/11/2021	<0.015						<0.015

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	<0.015			<0.015			
5/19/2016		<0.015	0.00762 (J)		<0.015	<0.015	0.00491 (J)
7/19/2016	<0.015						
7/20/2016		<0.015	0.0084 (J)	<0.015	<0.015	0.00095 (J)	0.0025 (J)
9/13/2016	<0.015						
9/14/2016			0.0071 (J)	0.00091 (J)	<0.015	0.0009 (J)	0.0028 (J)
9/15/2016		<0.015					
11/10/2016	<0.015						0.0016 (J)
11/11/2016				<0.015	<0.015	<0.015	
11/14/2016		<0.015					
1/18/2017	0.001 (J)						
1/27/2017					<0.015	<0.015	0.0023 (J)
2/6/2017		<0.015		<0.015			
2/9/2017			0.018				
3/14/2017	0.0014 (J)						
3/15/2017		<0.015	0.0057 (J)	<0.015	<0.015	<0.015	0.0022 (J)
4/11/2017			0.0047 (J)				
4/25/2017	<0.015						
4/26/2017		<0.015	0.004 (J)	<0.015	<0.015	<0.015	0.0019 (J)
8/8/2017	<0.015						
8/9/2017							0.0028 (J)
8/10/2017		<0.015	0.0046 (J)	0.00093 (J)	0.0011 (J)	0.0046 (J)	
3/28/2018	<0.015						
3/29/2018		<0.015	0.0048 (J)		<0.015	<0.015	0.0028 (J)
3/30/2018				<0.015			
6/14/2018	<0.015	<0.015	0.0046 (J)	<0.015	<0.015	<0.015	0.0018 (J)
10/3/2018	<0.015						
10/4/2018		<0.015	0.003 (J)	<0.015	<0.015	<0.015	<0.015
2/26/2019	<0.015						
2/27/2019		<0.015		<0.015	<0.015	0.00063 (J)	0.0019 (J)
2/28/2019			0.0053				
4/2/2019	<0.015						
4/3/2019		<0.015	0.0026 (J)		<0.015	<0.015	<0.015
4/4/2019				<0.015			
9/18/2019	<0.015						0.0021 (J)
9/19/2019		<0.015	0.0048 (J)	<0.015	<0.015	0.00073 (J)	
2/5/2020	<0.015		0.0044 (J)	<0.015	<0.015	<0.015	0.0012 (J)
2/7/2020		<0.015					
3/17/2020	<0.015						
3/18/2020				<0.015	<0.015	<0.015	
3/19/2020		<0.015	0.0042 (J)				0.0018 (J)
9/22/2020	<0.015	<0.015					
9/23/2020			0.0027 (J)	<0.015		<0.015	
9/24/2020					0.0017 (J)		<0.015
2/2/2021	<0.015						
2/3/2021		<0.015			<0.015	<0.015	
2/4/2021			0.003 (J)	<0.015			0.0012 (J)
3/10/2021	<0.015						
3/11/2021		<0.015		<0.015			0.0013 (J)
3/12/2021			0.003 (J)		<0.015	0.00062 (J)	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
5/18/2016		0.0153	<0.015	0.00526 (J)	
7/19/2016		0.0093 (J)	<0.015		
7/20/2016				0.0066 (J)	
9/14/2016		0.012 (J)	<0.015	0.0081 (J)	
11/10/2016		0.0065 (J)	<0.015	0.0076 (J)	
11/11/2016					<0.015
1/20/2017				0.0094 (J)	
1/24/2017		0.0049 (J)	<0.015		
2/6/2017					0.001 (J)
2/8/2017	<0.015				
2/23/2017	<0.015				
3/14/2017		0.0034 (J)		0.0044 (J)	
3/15/2017			<0.015		<0.015
3/17/2017	<0.015				
4/11/2017	<0.015				<0.015
4/25/2017		0.004 (J)	<0.015	0.0074 (J)	
4/26/2017	<0.015				<0.015
5/17/2017	<0.015				
6/7/2017	0.001 (J)				0.0015 (J)
7/11/2017	<0.015				<0.015
8/9/2017		0.0042 (J)	<0.015	0.0066 (J)	
8/10/2017					0.0016 (J)
3/29/2018	<0.015		<0.015		0.0012 (J)
3/30/2018		0.0049 (J)		0.0024 (J)	
6/14/2018	<0.015	0.0056 (J)	<0.015	0.0026 (J)	0.0014 (J)
10/3/2018		0.0041 (J)			
10/4/2018	<0.015		<0.015	0.00085 (J)	<0.015
2/26/2019				0.0032 (J)	
2/27/2019	<0.015	0.0061	<0.015		
2/28/2019					0.0013 (J)
4/2/2019					<0.015
4/3/2019	<0.015				
4/4/2019		0.0039 (J)	<0.015	0.002 (J)	
9/18/2019	<0.015	0.0052	<0.015	0.0026 (J)	0.0011 (J)
2/5/2020	<0.015				
2/7/2020		0.0024 (J)	<0.015	0.0025 (J)	0.0014 (J)
3/18/2020		0.002 (J)	<0.015	0.0024 (J)	
3/19/2020	<0.015				
5/4/2020					0.0013 (J)
9/23/2020		0.0031 (J)	<0.015	0.0027 (J)	0.0013 (J)
9/24/2020	<0.015				
2/3/2021					0.0013 (J)
2/4/2021	<0.015	0.0022 (J)	<0.015	0.0025 (J)	
3/11/2021	<0.015		<0.015	0.0022 (J)	0.0012 (J)
3/12/2021		0.0019 (J)			

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	5.24	7.81	6.23				
5/18/2016				5.55	7.23	5.47	7.92
7/18/2016	5.434038						
7/19/2016			6.285413			5.336672	7.154587
7/20/2016				5.656628	7.281557		
9/13/2016	5.22	7.18	6.3	5.63	7.15		7.96
9/14/2016						7.29	
11/9/2016	5.57	6.03	6.26				7.27
11/10/2016				5.61	6.33		
1/17/2017	5.48		6.8				
1/18/2017				5.81	6.94		7.72
1/19/2017		6.71				6.59	
3/13/2017	5.4		6.18				
3/14/2017		6.45		5.53	6.75	5.86	
4/24/2017	5.4		6.35				
4/25/2017		6.93		5.59	6.84	5.35	7.73
8/8/2017	5.32	6.72	6.23	5.52			7.74
8/9/2017					6.67	5.25	
8/25/2017						5.44	
10/10/2017	5.26		6.32				
10/11/2017		6.75		5.51	6.75	6.99	7.71
3/27/2018	5.39		6.14				
3/28/2018		6.84		5.6	6.79	5.95	7.28
6/13/2018	5.33	6.31				5.13	7.78
6/14/2018			6.02	5.58	6.67		
9/24/2018			6.1				
9/27/2018	5.33						
9/28/2018		6.26					
10/2/2018							7.52
10/3/2018				5.45	6.92	5.22	
2/25/2019	5.25		6.02				
2/26/2019		7.66		5.6	6.74	5.21	7.87
4/1/2019	5.31		6.09				
4/2/2019		7.53		5.69	6.81	5.25	7.94
9/16/2019	5.28					6.94	7.55
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	5.31	7.74
2/5/2020		6.73					
3/16/2020	5.29		6.01				
3/17/2020		6.36		5.61	6.83	5.34	7.96
9/21/2020			6.05	5.35	6.81		
9/22/2020	5.09	7.18				6.78	7.4
2/2/2021	5.36	6.48	6.1	5.78	6.61		
2/3/2021						5.3	7.76
3/10/2021		5.8	6.11	5.49	7.19	5.22	
3/11/2021	5.26						7.93

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	5.5			8.96			
5/19/2016		5.99	6.31		5.93	6.91	6.85
7/18/2016					5.9661		
7/19/2016	5.43						
7/20/2016		6.194334	6.345061	8.56774		6.962608	6.705264
9/1/2016						6.96	
9/13/2016	5.57						
9/14/2016			6.33				6.7
9/15/2016		6.38					
11/10/2016	6.93						6.5
11/11/2016				6.96	6.03	6.76	
11/14/2016		5.7					
1/18/2017	7.16						
1/27/2017					6.21	6.66	6.47
2/6/2017		5.66		6.93			
3/14/2017	5.82						
3/15/2017		5.77	5.99	6.82	5.97	6.3	6.75
4/25/2017	5.57						
4/26/2017		5.39	6.03	6.73	6.17	6.67	6.57
8/8/2017	5.6						
8/9/2017							6.55
8/10/2017		5.59	5.86	6.66	6.05	6.7	
10/11/2017	5.43						
10/12/2017		5.46	6.09	6.67	6.89	6.89	6.67
3/28/2018	5.29						
3/29/2018		5.43	5.89		6.85	7.08	6.99
3/30/2018				6.98			
6/14/2018	5.39	5.76	6.47	6.56	5.89	6.73	6.39
10/3/2018	5.33						
10/4/2018		5.39	6.17	6.4	5.81	6.79	6.5
2/26/2019	5.62						
2/27/2019				6.23	5.78	6.7	6.47
2/28/2019			6.045 (D)				
4/2/2019	5.6						
4/3/2019		5.55	6.1		6.07	6.91	6.47
4/4/2019				6.46			
9/18/2019	5.6						6.46
9/19/2019		5.39	6.38	6.45	5.82	6.63	
2/5/2020	5.54		6.54	6.42	5.89	6.76	6.44
2/7/2020		5.38					
3/17/2020	5.32						
3/18/2020				6.4	5.89	6.94	
3/19/2020		6.43	6.64				6.56
9/22/2020	5.36	5.17					
9/23/2020			5.8	6.14		6.42	
9/24/2020					5.5		6.29
2/2/2021	5.84						
2/3/2021		5.08			5.21	6.15	
2/4/2021			6.22	6.21			6.34
3/10/2021	4.96						
3/11/2021		5.35		6.56			5.95
3/12/2021			5.88		5.46	6.66	

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
5/18/2016		7.75	6.06	6.41			
7/18/2016			5.884339				
7/19/2016		7.876073					
7/20/2016				6.662463			
9/14/2016		7.79	5.89	6.7			
11/10/2016		7.76	5.6	6.51			
11/11/2016					6.93		
1/20/2017				6.55			
1/24/2017		7.71	5.54				
2/6/2017					6.8		
2/8/2017	5.81						
2/23/2017	5.8						
3/14/2017		7.57		6.27			
3/15/2017			5.39		6.78		
3/17/2017	5.97						
4/11/2017	6.18				6.79		
4/25/2017		7.47	5.28	6.26			
4/26/2017	6.09				6.82		
5/17/2017	6.26						
6/7/2017	6.21				6.76		
7/11/2017	6				6.99		
8/9/2017		7.37	5.46	6.47			
8/10/2017					6.59		
10/11/2017	6.97	7.42	5.45	6.47			
10/12/2017					6.7		
3/29/2018	6.51		5.33		6.88		
3/30/2018		7.48		6.71			
6/14/2018	5.76	7.5	5.35	6.15	6.72		
10/3/2018		7.11					
10/4/2018	5.97		5.28	6.14	6.67		
2/26/2019				6.17			
2/27/2019	5.73	7.4	5.08				
2/28/2019					6.98		
4/2/2019					6.75		
4/3/2019	5.68						
4/4/2019		7.58	5.19	6.16			
9/18/2019	5.5	7.8	5.19	6.17	6.71		
2/5/2020	5.52						
2/7/2020		7.66	5.17	6.34	7.08		
3/18/2020		7.73	5.08	6.28			
3/19/2020	5.49						
5/4/2020					6.9		
9/23/2020		7.35	5.05	5.89	6.59		
9/24/2020	5.16						
2/3/2021					6.75		
2/4/2021	5.76	7.77	5.42	6.31			
3/8/2021					5.54		
3/9/2021							7.29
3/11/2021	5.1		5.21	5.96	7.12		
3/12/2021		7.72					
4/7/2021							7.05
4/8/2021					5.6		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-22	WGWC-23	WGWC-24	WGWC-25
3/8/2021				5.36
3/9/2021	5.56	5.81	4.29	
4/7/2021		5.57	4.43	
4/8/2021	6.01			5.39

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.005	<0.005	<0.005				
5/18/2016				<0.005	<0.005	<0.005	<0.005
7/19/2016	<0.005	<0.005	<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		<0.005
9/14/2016						<0.005	
11/9/2016	<0.005	<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		<0.005
1/19/2017		<0.005				<0.005	
3/13/2017	<0.005		<0.005				
3/14/2017		0.0028		0.00026 (J)	<0.005	<0.005	<0.005
4/24/2017	<0.005		<0.005				
4/25/2017		0.0018		0.00035 (J)	<0.005	<0.005	<0.005
8/8/2017	0.0013	<0.005	<0.005	<0.005			<0.005
8/9/2017					<0.005	<0.005	
3/27/2018	0.00055 (J)		<0.005				
3/28/2018		<0.005		<0.005	<0.005	<0.005	<0.005
6/13/2018	<0.005	<0.005				0.00025 (J)	<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					
10/2/2018							<0.005
10/3/2018				<0.005	<0.005	<0.005	
2/25/2019	<0.005		<0.005				
2/26/2019		<0.005		<0.005	<0.005	<0.005	<0.005
4/1/2019	<0.005		<0.005				
4/2/2019		<0.005		<0.005	<0.005	<0.005	<0.005
9/16/2019	<0.005					<0.005	<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	<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	<0.005	<0.005
9/21/2020			<0.005	<0.005	<0.005		
9/22/2020	<0.005	<0.005				<0.005	<0.005
2/2/2021	<0.005	<0.005	<0.005	<0.005	<0.005		
2/3/2021						<0.005	<0.005
3/10/2021		<0.005	<0.005	<0.005	<0.005	<0.005	
3/11/2021	<0.005						<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	<0.005			<0.005			
5/19/2016		0.00518	0.00228		<0.005	<0.005	<0.005
7/19/2016	<0.005						
7/20/2016		0.0038	0.0016	<0.005	<0.005	<0.005	<0.005
9/13/2016	<0.005						
9/14/2016			0.0024	<0.005	<0.005	<0.005	<0.005
9/15/2016		0.0034					
11/10/2016	<0.005						<0.005
11/11/2016				<0.005	<0.005	<0.005	
11/14/2016		0.0033					
1/18/2017	<0.005						
1/27/2017					<0.005	<0.005	<0.005
2/6/2017		0.0033		<0.005			
2/9/2017			0.0023				
3/14/2017	<0.005						
3/15/2017		0.003	0.0031	<0.005	<0.005	<0.005	<0.005
4/11/2017			0.0023				
4/25/2017	<0.005						
4/26/2017		0.0032	0.0019	<0.005	<0.005	<0.005	<0.005
8/8/2017	<0.005						
8/9/2017							<0.005
8/10/2017		0.0031	0.0021	0.00031 (J)	0.00049 (J)	0.0021	
3/28/2018	<0.005						
3/29/2018		0.0034	0.0021		<0.005	<0.005	<0.005
3/30/2018				<0.005			
6/14/2018	<0.005	0.0031	0.0025	<0.005	<0.005	<0.005	<0.005
10/3/2018	<0.005						
10/4/2018		0.0033	0.002	<0.005	<0.005	<0.005	<0.005
2/26/2019	<0.005						
2/27/2019		0.0035		<0.005	<0.005	<0.005	<0.005
2/28/2019			0.0027				
4/2/2019	<0.005						
4/3/2019		0.0031	0.0019		<0.005	<0.005	<0.005
4/4/2019				<0.005			
9/18/2019	<0.005						<0.005
9/19/2019		0.0021 (J)	0.0026 (J)	<0.005	<0.005	<0.005	
2/5/2020	<0.005		0.0033 (J)	<0.005	<0.005	<0.005	<0.005
2/7/2020		0.0048 (J)					
3/17/2020	<0.005						
3/18/2020				<0.005	<0.005	<0.005	
3/19/2020		0.0037 (J)	0.0033 (J)				<0.005
9/22/2020	<0.005	0.0039 (J)					
9/23/2020			0.0029 (J)	<0.005		<0.005	
9/24/2020					<0.005		<0.005
2/2/2021	<0.005						
2/3/2021		0.0036 (J)			<0.005	<0.005	
2/4/2021			0.003 (J)	<0.005			<0.005
3/10/2021	<0.005						
3/11/2021		0.0038 (J)		<0.005			<0.005
3/12/2021			0.0034 (J)		<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
5/18/2016		<0.005	0.00735	<0.005	
7/19/2016		<0.005	0.0075		
7/20/2016				<0.005	
9/14/2016		<0.005	0.0091	<0.005	
11/10/2016		<0.005	0.0056	<0.005	
11/11/2016					<0.005
1/20/2017				<0.005	
1/24/2017		<0.005	0.012		
2/6/2017					<0.005
2/8/2017	<0.005				
2/23/2017	<0.005				
3/14/2017		<0.005		<0.005	
3/15/2017			0.012		<0.005
3/17/2017	<0.005				
4/11/2017	<0.005				<0.005
4/25/2017		<0.005	0.013	<0.005	
4/26/2017	<0.005				<0.005
5/17/2017	<0.005				
6/7/2017	<0.005				<0.005
7/11/2017	<0.005				<0.005
8/9/2017		<0.005	0.016	<0.005	
8/10/2017					0.00036 (J)
3/29/2018	0.0003 (J)		0.016		<0.005
3/30/2018		<0.005		<0.005	
6/14/2018	<0.005	0.0005 (J)	0.012	<0.005	<0.005
10/3/2018		<0.005			
10/4/2018	<0.005		0.013	<0.005	<0.005
2/26/2019				<0.005	
2/27/2019	<0.005	<0.005	0.0081		
2/28/2019					<0.005
4/2/2019					<0.005
4/3/2019	<0.005				
4/4/2019		<0.005	0.0091	<0.005	
9/18/2019	<0.005	<0.005	0.0044 (J)	<0.005	<0.005
2/5/2020	<0.005				
2/7/2020		<0.005	0.0036 (J)	<0.005	<0.005
3/18/2020		<0.005	0.0046 (J)	<0.005	
3/19/2020	<0.005				
5/4/2020					<0.005
9/23/2020		<0.005	0.0028 (J)	<0.005	<0.005
9/24/2020	<0.005				
2/3/2021					<0.005
2/4/2021	<0.005	<0.005	0.0023 (J)	<0.005	
3/11/2021	<0.005		0.0023 (J)	<0.005	<0.005
3/12/2021		<0.005			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<1	19.9	1.14				
5/18/2016				0.821 (J)	5.32	0.955 (J)	8.88
7/19/2016	<1	14	1.4			0.76 (J)	9
7/20/2016				0.82 (J)	6.5		
9/13/2016	<1	11	1.1	0.81 (J)	5.6		8.5
9/14/2016						3.4	
11/9/2016	<1	6.3	1.1				8.2
11/10/2016				0.73 (J)	5.4		
1/17/2017	<1		2.1				
1/18/2017				0.99 (J)	5.1		9.4
1/19/2017		7.4				21	
3/13/2017	<1		0.97 (J)				
3/14/2017		10		0.83 (J)	4.6	1.4	2
4/24/2017	<1		0.75 (J)				
4/25/2017		10		0.7 (J)	6.6	0.89 (J)	8.2
8/8/2017	<1	12	1.1	0.82 (J)			8.5
8/9/2017					7.3	0.75 (J)	
10/10/2017	<1		1.3				
10/11/2017		11		0.72 (J)	6.8	<1	8.3
6/13/2018	<1	8.2				<1	8.3
6/14/2018			0.84 (J)	<1	6.9		
9/24/2018			0.79 (J)				
9/27/2018	<1						
9/28/2018		7.6					
10/2/2018							8.3
10/3/2018				0.73 (J)	7	<1	
4/1/2019	<1		1				
4/2/2019		11		1.1	8.1	0.94 (J)	8.5
9/16/2019	0.49 (J)					2.2	8.9
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	4	12
9/21/2020			1.1	0.77 (J)	7.7		
9/22/2020	<1	9				1.5	8
3/10/2021		7.1	0.9 (J)	0.91 (J)	8.1	<1	
3/11/2021	<1						8.4

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	0.368 (J)			2.84			
5/19/2016		146	35.9		1.83	15.8	19.2
7/19/2016	<1						
7/20/2016		150	37	2.8	1.6	16	11
9/13/2016	<1						
9/14/2016			39	2.8	1.5	16	8.6
9/15/2016		140					
11/10/2016	<1						5.7
11/11/2016				2.6	1.4	14	
11/14/2016		160					
1/18/2017	1.4						
1/27/2017					2.5	15	6.8
2/6/2017		180		2.7			
2/9/2017			60				
3/14/2017	<1						
3/15/2017		170	44	2.7	2.5	17	11
4/11/2017			36				
4/25/2017	<1						
4/26/2017		180	37	2.5	2.2	15	8.1
8/8/2017	<1						
8/9/2017							8.1
8/10/2017		180	38	2.2	2.3	16	
10/11/2017	<1						
10/12/2017		180	37	1.9	1.9	14	6.1
6/14/2018	<1	170	37	2	1.7	14	5
10/3/2018	<1						
10/4/2018		780	38	1.9	1.6	14	4.3
4/2/2019	0.4 (J)						
4/3/2019		180	41		1.9	13	3.8
4/4/2019				2.2			
9/18/2019	<1						3.9
9/19/2019		190	42	2.1	1.3	14	
3/17/2020	0.86 (J)						
3/18/2020				2.1	1.6	12	
3/19/2020		200	45				4
9/22/2020	0.38 (J)	200					
9/23/2020			54	1.8		12	
9/24/2020					2.7		0.63 (J)
3/10/2021	<1						
3/11/2021		220		2.8			2.9
3/12/2021			62		2	14	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
5/18/2016		50.7	388	32.1			
7/19/2016		62	460				
7/20/2016				9.7			
9/14/2016		79	500	6.6			
11/10/2016		61	530	5.2			
11/11/2016					3.4		
1/20/2017				5.3			
1/24/2017		34	600				
2/6/2017					3.7		
2/8/2017	4.3						
2/23/2017	16						
3/14/2017		43		9.6			
3/15/2017			610		3.6		
3/17/2017	22						
4/11/2017	13				3.2		
4/25/2017		39	620	20			
4/26/2017	20				3.3		
5/17/2017	12						
6/7/2017	8.1				3.8		
7/11/2017	17				3.3		
8/9/2017		35	780	6.5			
8/10/2017					3.7		
10/11/2017	3.4	48	720	13			
10/12/2017					3.6		
6/14/2018	5.8	44	620	16	3.5		
10/3/2018		49					
10/4/2018	2.8		560	15	4.6		
4/2/2019					3.8		
4/3/2019	3.8						
4/4/2019		41	250	9.1			
9/18/2019	1.7	37	130	7.3	3.6		
3/18/2020		17	120	4.2			
3/19/2020	1.5						
5/4/2020					4.5		
9/23/2020		21	85	4.4	3		
9/24/2020	1.2						
3/8/2021						240	
3/9/2021							230
3/11/2021	1.7		64	3.9	4		
3/12/2021		19					
4/7/2021							190
4/8/2021						240	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 5/11/2021 2:39 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-22	WGWC-23	WGWC-24	WGWC-25
3/8/2021				4.7
3/9/2021	80	14	140	
4/7/2021		5.1	160	
4/8/2021	60			5.8

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.001	<0.001	<0.001				
5/18/2016				<0.001	<0.001	<0.001	<0.001
7/19/2016	<0.001	<0.001	<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		<0.001
9/14/2016						9E-05 (J)	
11/9/2016	<0.001	<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		<0.001
1/19/2017		<0.001				<0.001	
3/13/2017	<0.001		<0.001				
3/14/2017		<0.001		<0.001	<0.001	<0.001	<0.001
4/24/2017	<0.001		<0.001				
4/25/2017		<0.001		<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001			<0.001
8/9/2017					<0.001	<0.001	
3/27/2018	<0.001		<0.001				
3/28/2018		<0.001		<0.001	<0.001	<0.001	<0.001
6/13/2018	<0.001	<0.001				<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					
10/2/2018							<0.001
10/3/2018				<0.001	<0.001	<0.001	
2/25/2019	<0.001		<0.001				
2/26/2019		<0.001		<0.001	<0.001	<0.001	<0.001
4/1/2019	<0.001		<0.001				
4/2/2019		<0.001		<0.001	<0.001	<0.001	<0.001
9/16/2019	0.00016 (J)					<0.001	0.00062 (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	<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	<0.001	<0.001
9/21/2020			<0.001	<0.001	<0.001		
9/22/2020	<0.001	<0.001				<0.001	<0.001
2/2/2021	<0.001	<0.001	0.0004 (J)	<0.001	<0.001		
2/3/2021						0.00042 (J)	<0.001
3/10/2021		<0.001	0.00073 (J)	0.00028 (J)	0.00017 (J)	<0.001	
3/11/2021	0.00045 (J)						<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 2:39 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	<0.001			<0.001			
5/19/2016		<0.001	<0.001		<0.001	<0.001	<0.001
7/19/2016	<0.001						
7/20/2016		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/13/2016	<0.001						
9/14/2016			<0.001	<0.001	<0.001	<0.001	<0.001
9/15/2016		<0.001					
11/10/2016	<0.001						<0.001
11/11/2016				<0.001	<0.001	<0.001	
11/14/2016		<0.001					
1/18/2017	<0.001						
1/27/2017					<0.001	<0.001	<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	<0.001	<0.001	<0.001
4/11/2017			<0.001				
4/25/2017	<0.001						
4/26/2017		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001						
8/9/2017							<0.001
8/10/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
3/28/2018	<0.001						
3/29/2018		<0.001	<0.001		<0.001	<0.001	<0.001
3/30/2018				8.5E-05 (J)			
6/14/2018	<0.001	<0.001	<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	<0.001	<0.001
2/26/2019	<0.001						
2/27/2019		<0.001		<0.001	<0.001	<0.001	<0.001
2/28/2019			<0.001				
4/2/2019	<0.001						
4/3/2019		<0.001	<0.001		<0.001	<0.001	<0.001
4/4/2019				<0.001			
9/18/2019	<0.001						<0.001
9/19/2019		<0.001	<0.001	<0.001	<0.001	<0.001	
2/5/2020	0.00026 (J)		<0.001	<0.001	<0.001	<0.001	<0.001
2/7/2020		<0.001					
3/17/2020	<0.001						
3/18/2020				<0.001	<0.001	<0.001	
3/19/2020		<0.001	<0.001				<0.001
9/22/2020	<0.001	<0.001					
9/23/2020			<0.001	<0.001		<0.001	
9/24/2020					<0.001		<0.001
2/2/2021	<0.001						
2/3/2021		<0.001			0.00016 (J)	<0.001	
2/4/2021			<0.001	<0.001			<0.001
3/10/2021	<0.001						
3/11/2021		<0.001		<0.001			<0.001
3/12/2021			<0.001		<0.001	<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
5/18/2016		<0.001	<0.001	<0.001	
7/19/2016		<0.001	8.5E-05 (J)		
7/20/2016				<0.001	
9/14/2016		<0.001	0.00017 (J)	<0.001	
11/10/2016		<0.001	0.00017 (J)	<0.001	
11/11/2016					<0.001
1/20/2017				<0.001	
1/24/2017		<0.001	0.00023 (J)		
2/6/2017					<0.001
2/8/2017	0.00011 (J)				
2/23/2017	0.00012 (J)				
3/14/2017		<0.001		<0.001	
3/15/2017			0.00021 (J)		<0.001
3/17/2017	<0.001				
4/11/2017	<0.001				<0.001
4/25/2017		<0.001	0.00024 (J)	<0.001	
4/26/2017	<0.001				<0.001
5/17/2017	<0.001				
6/7/2017	<0.001				<0.001
7/11/2017	<0.001				<0.001
8/9/2017		<0.001	0.0002 (J)	<0.001	
8/10/2017					<0.001
3/29/2018	0.0002 (J)		0.00019 (J)		<0.001
3/30/2018		<0.001		<0.001	
6/14/2018	0.00014 (J)	<0.001	0.00017 (J)	<0.001	<0.001
10/3/2018		<0.001			
10/4/2018	0.00013 (J)		0.00015 (J)	<0.001	<0.001
2/26/2019				<0.001	
2/27/2019	0.00016 (J)	<0.001	0.00015 (J)		
2/28/2019					<0.001
4/2/2019					<0.001
4/3/2019	0.00012 (J)				
4/4/2019		<0.001	9.5E-05 (J)	<0.001	
9/18/2019	<0.001	<0.001	<0.001	<0.001	<0.001
2/5/2020	0.00022 (J)				
2/7/2020		<0.001	<0.001	<0.001	<0.001
3/18/2020		<0.001	<0.001	<0.001	
3/19/2020	0.00017 (J)				
5/4/2020					<0.001
9/23/2020		<0.001	<0.001	<0.001	<0.001
9/24/2020	<0.001				
2/3/2021					0.00018 (J)
2/4/2021	0.00021 (J)	<0.001	<0.001	<0.001	
3/11/2021	0.00019 (J)		<0.001	<0.001	<0.001
3/12/2021		<0.001			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<10	112	100				
5/18/2016				29	101	33	113
7/19/2016	14	80	84			<10	92
7/20/2016				<10	86		
9/13/2016	50	120	70	12	28		100
9/14/2016						150	
11/9/2016	22	76	110				130
11/10/2016				30	110		
1/17/2017	8		120				
1/18/2017				22	98		120
1/19/2017		36				34	
3/13/2017	<10		58				
3/14/2017		70		22	110	32	110
4/24/2017	10		94				
4/25/2017		70		22	86	22	100
8/8/2017	<10	72	62	4 (J)			90
8/9/2017					92	20	
10/10/2017	44		140				
10/11/2017		90		10	110	4 (J)	98
6/13/2018	24	38				<10	110
6/14/2018			80	26	92		
9/24/2018			76				
9/27/2018	28						
9/28/2018		68					
10/2/2018							130
10/3/2018				50	100	24	
4/1/2019	<10		63				
4/2/2019		100		28	100	25	110
9/16/2019	27					41	110
9/17/2019		76	120		120		
9/18/2019				36			
3/16/2020	23		90				
3/17/2020		81		20	100	18	120
9/21/2020			100	22	92		
9/22/2020	24	96				190	130
3/10/2021		72	100	20	100	19	
3/11/2021	24						110

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13
5/18/2016	31			70			
5/19/2016		311	134		39	101	127
7/19/2016	<10						
7/20/2016		290	120	42	<10	76	88
9/13/2016	<10						
9/14/2016			140	40	24	96	92
9/15/2016		270					
11/10/2016	44						100
11/11/2016				72	42	100	
11/14/2016		320					
1/18/2017	50						
1/27/2017					18	50	80
2/6/2017		330		24			
2/9/2017			180				
3/14/2017	26						
3/15/2017		370	160	78	54	120	100
4/11/2017			120				
4/25/2017	10						
4/26/2017		380	140	48	42	100	92
8/8/2017	<10						
8/9/2017							120
8/10/2017		380	130	38	30	96	
10/11/2017	42						
10/12/2017		450	120	72	54	100	110
6/14/2018	14	410	120	40	16	94	88
10/3/2018	6						
10/4/2018		520	140	60	56	110	100
4/2/2019	15						
4/3/2019		430	120		<10	66	72
4/4/2019				30			
9/18/2019	35						110
9/19/2019		440	130	52	27	89	
3/17/2020	19						
3/18/2020				58	26	73	
3/19/2020		540	160				95
9/22/2020	15	600					
9/23/2020			150	50		90	
9/24/2020					60		21
3/10/2021	20						
3/11/2021		530		52			63
3/12/2021			130		27	78	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
5/18/2016		190	1080	107			
7/19/2016		180	1200				
7/20/2016				78			
9/14/2016		230	1300	82			
11/10/2016		210	1400	98			
11/11/2016					98		
1/20/2017				82			
1/24/2017		140	1300				
2/6/2017					36		
2/8/2017	54						
2/23/2017	78						
3/14/2017		220		120			
3/15/2017			1500		120		
3/17/2017	56						
4/11/2017	76				68		
4/25/2017		180	1700	120			
4/26/2017	76				76		
5/17/2017	68						
6/7/2017	72				74		
7/11/2017	68				70		
8/9/2017		180	1900	92			
8/10/2017					66		
10/11/2017	68	200	1900	74			
10/12/2017					100		
6/14/2018	52	170	1500	100	74		
10/3/2018		260					
10/4/2018	130		1700	98	100		
4/2/2019					88		
4/3/2019	31						
4/4/2019		170	710	89			
9/18/2019	33	160	520	79	96		
3/18/2020		160	370	98			
3/19/2020	18						
5/4/2020					110		
9/23/2020		150	250	60	94		
9/24/2020	24						
3/8/2021						590	
3/9/2021							610
3/11/2021	24		190	75	100		
3/12/2021		130					
4/7/2021							520
4/8/2021						540	

Time Series

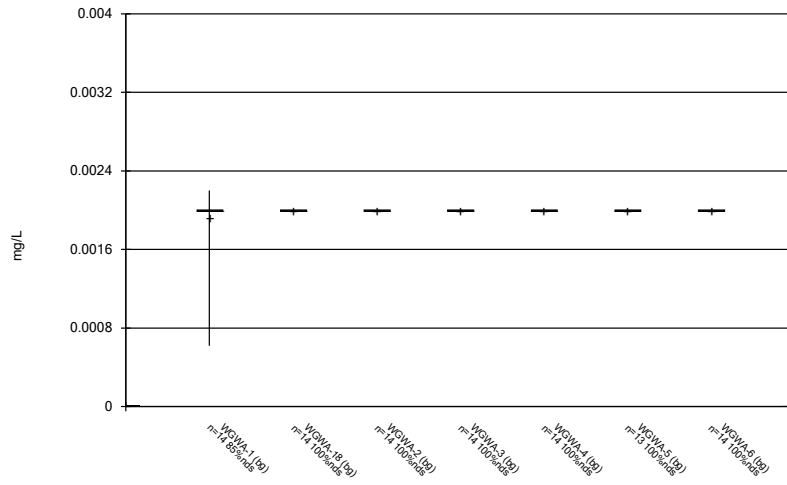
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 5/11/2021 2:39 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-22	WGWC-23	WGWC-24	WGWC-25
3/8/2021				220
3/9/2021	200	79	370	
4/7/2021		66	510	
4/8/2021	170			180

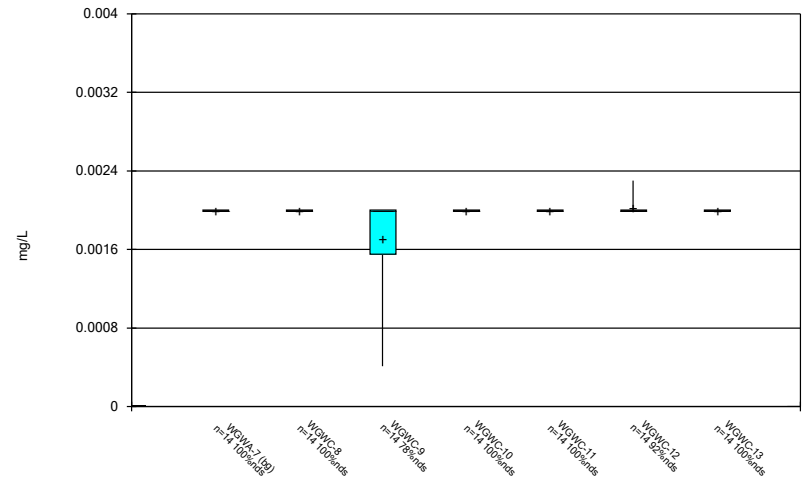
FIGURE B.

Box & Whiskers Plot



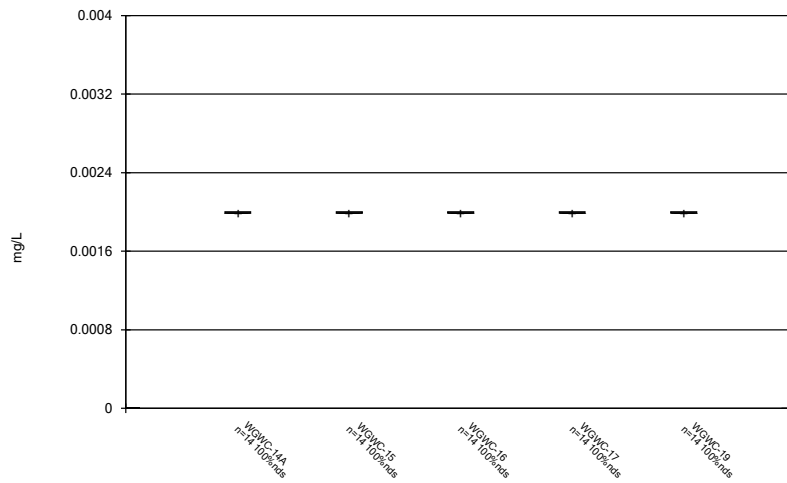
Constituent: Antimony Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



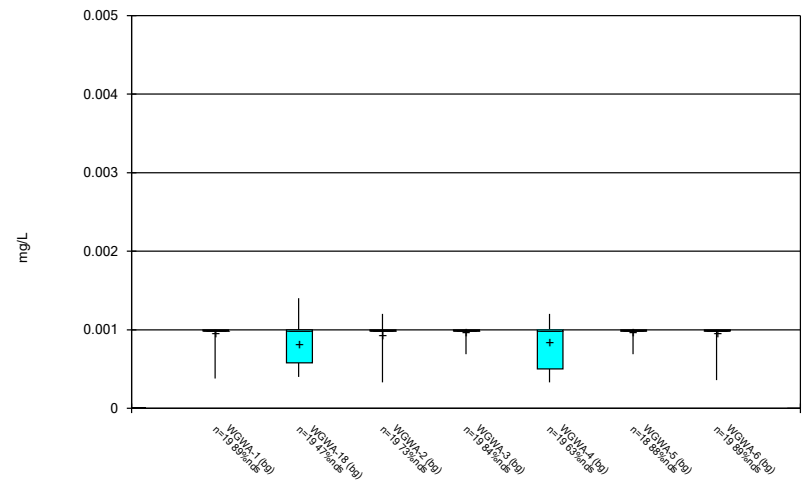
Constituent: Antimony Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



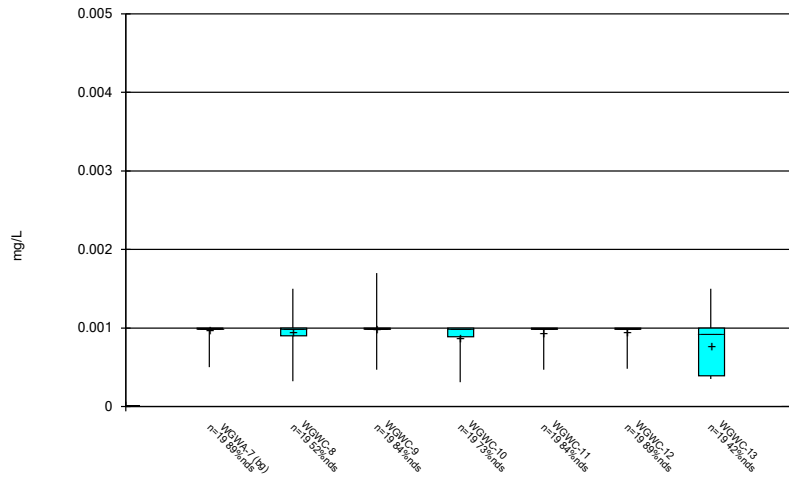
Constituent: Antimony Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



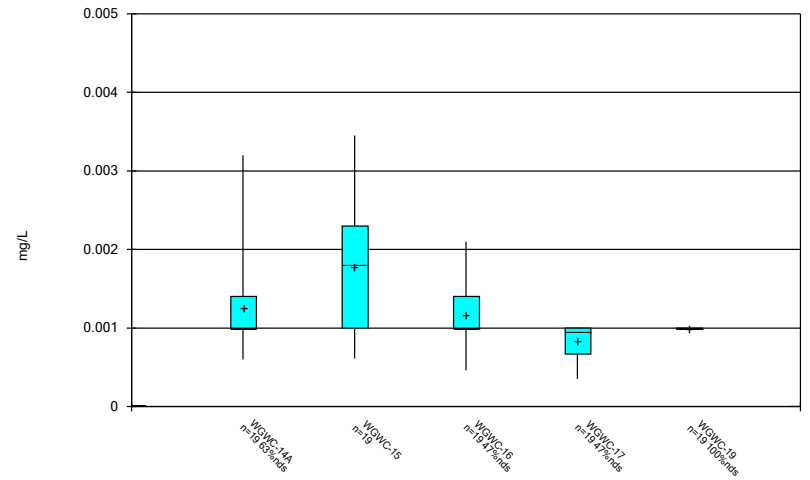
Constituent: Arsenic Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



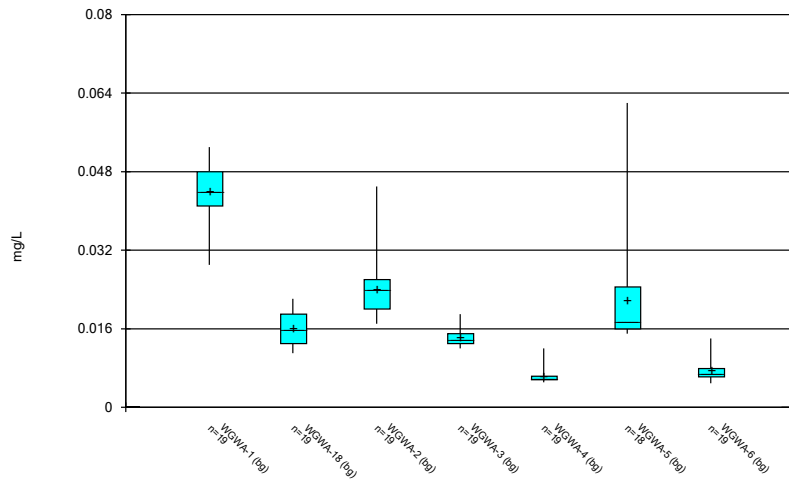
Constituent: Arsenic Analysis Run 5/11/2021 2:40 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



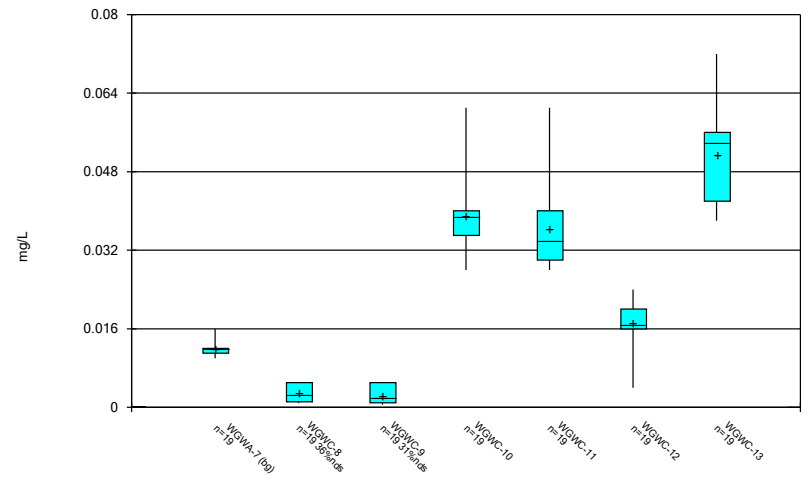
Constituent: Arsenic Analysis Run 5/11/2021 2:40 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



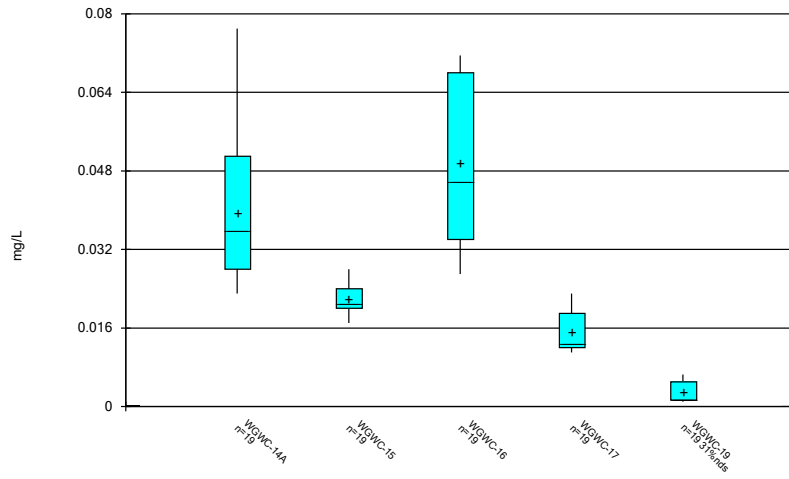
Constituent: Barium Analysis Run 5/11/2021 2:40 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



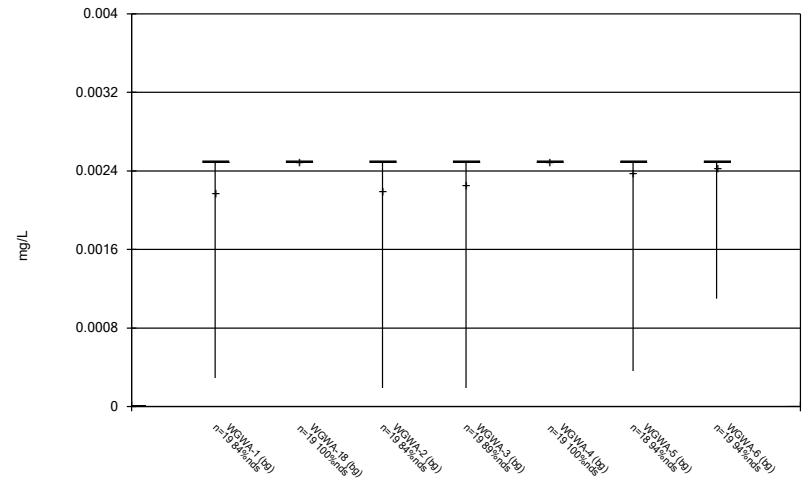
Constituent: Barium Analysis Run 5/11/2021 2:40 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



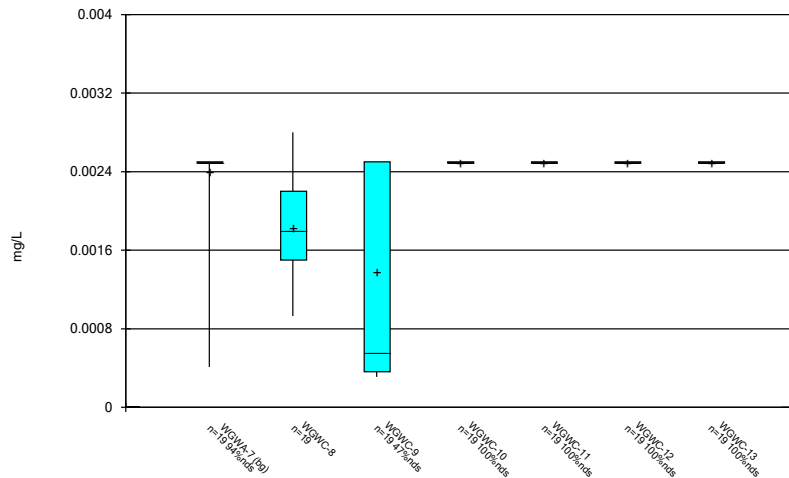
Constituent: Barium Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



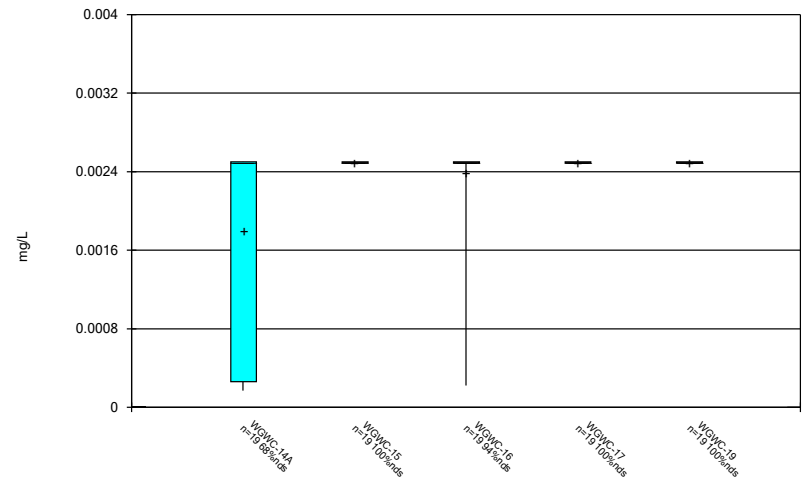
Constituent: Beryllium Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



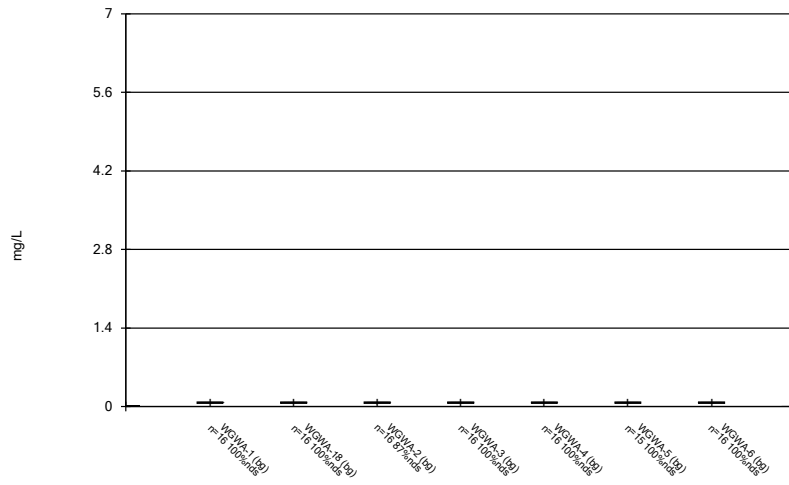
Constituent: Beryllium Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



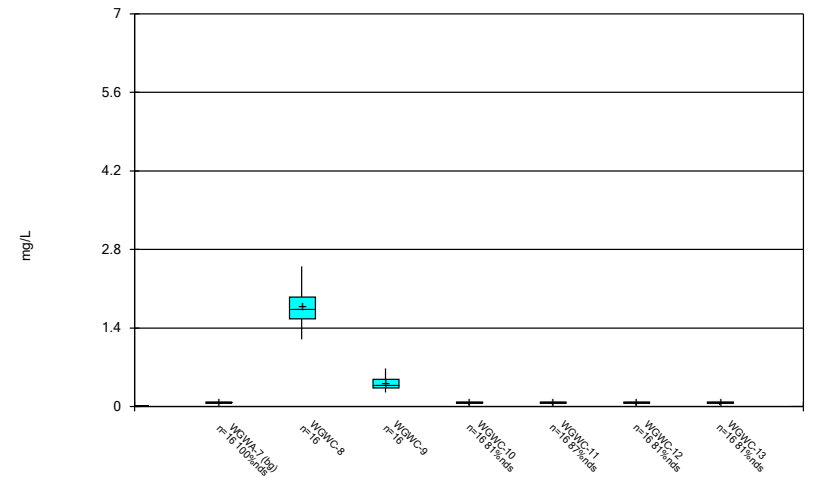
Constituent: Beryllium Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



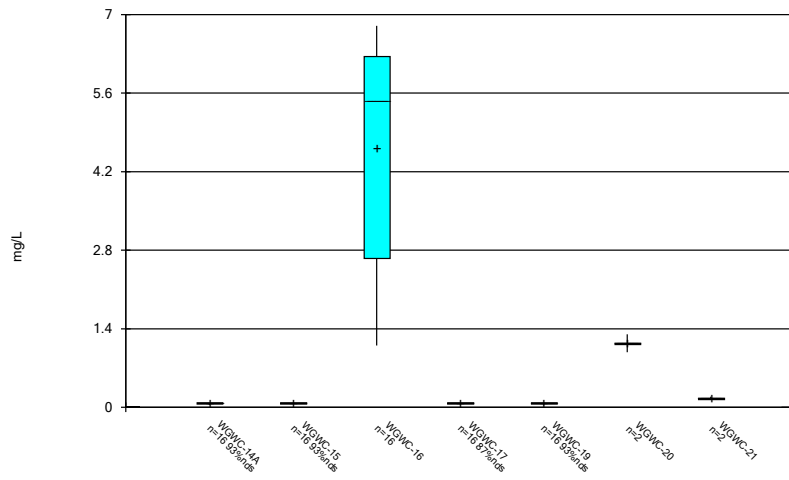
Constituent: Boron, total Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



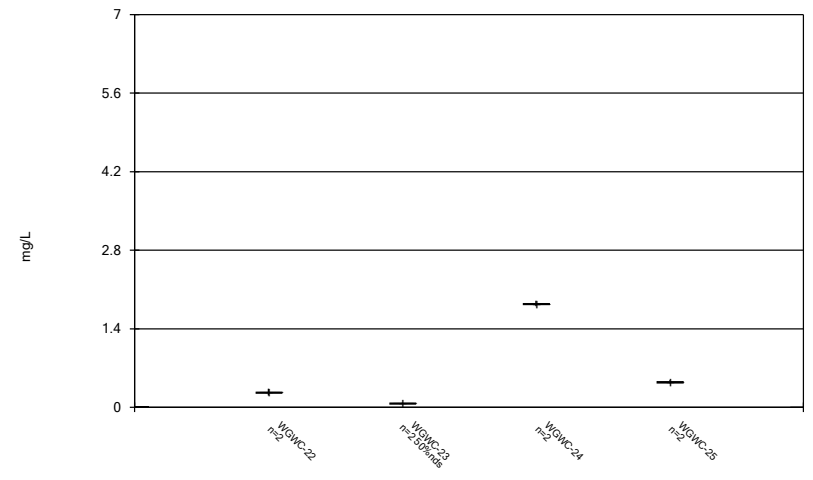
Constituent: Boron, total Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



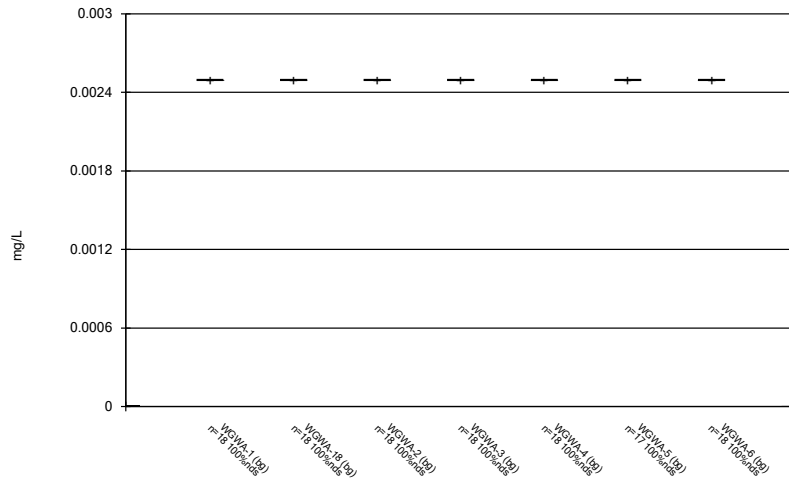
Constituent: Boron, total Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



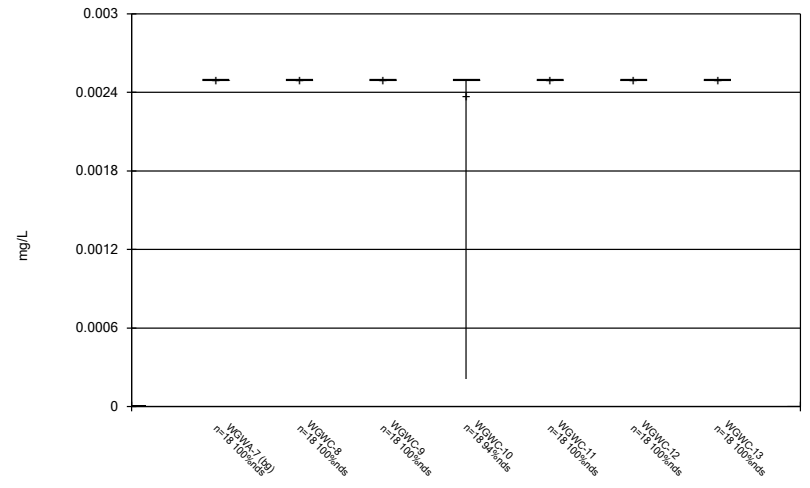
Constituent: Boron, total Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



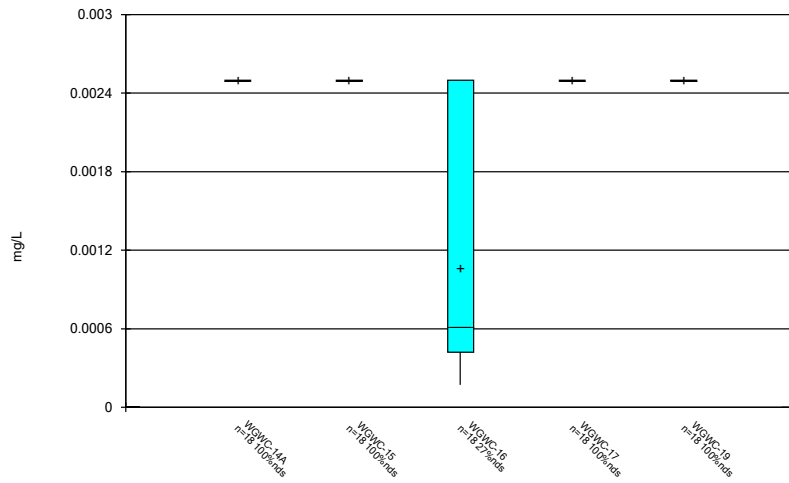
Constituent: Cadmium Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



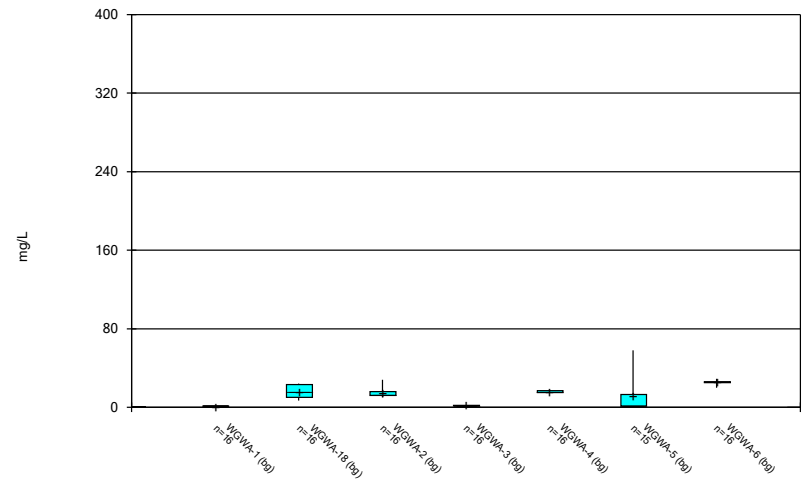
Constituent: Cadmium Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



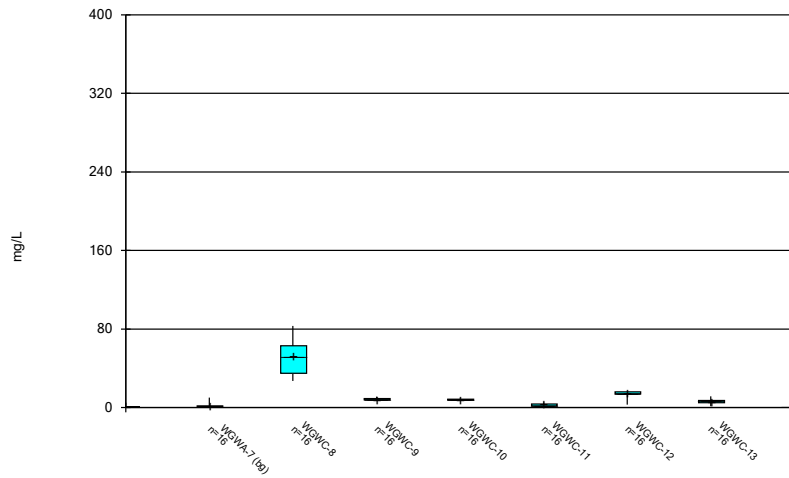
Constituent: Cadmium Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



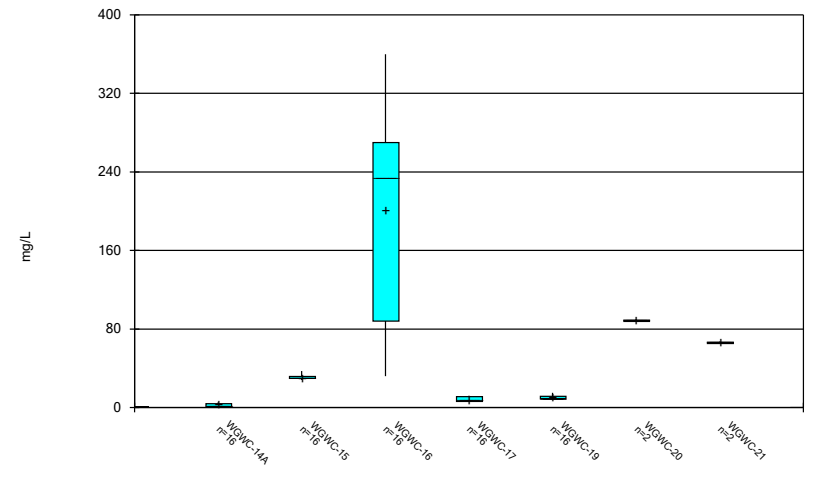
Constituent: Calcium, total Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



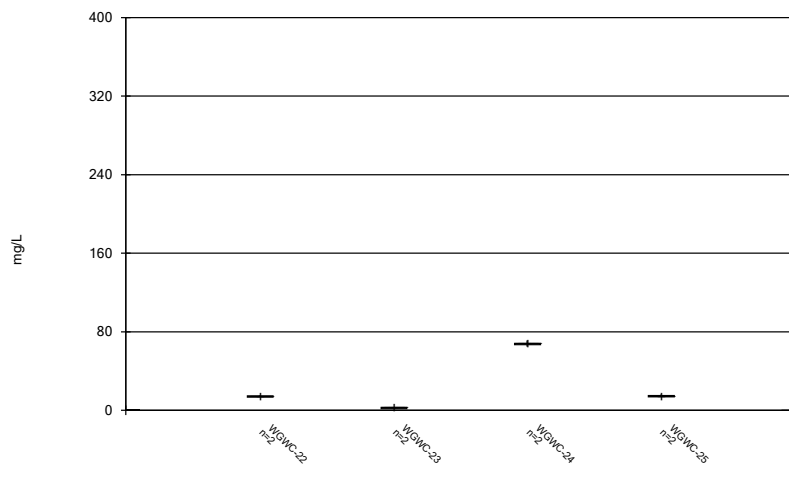
Constituent: Calcium, total Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



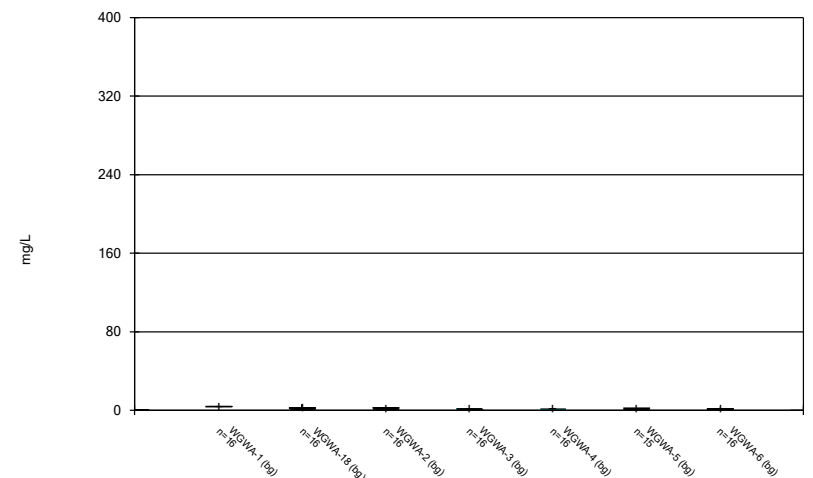
Constituent: Calcium, total Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



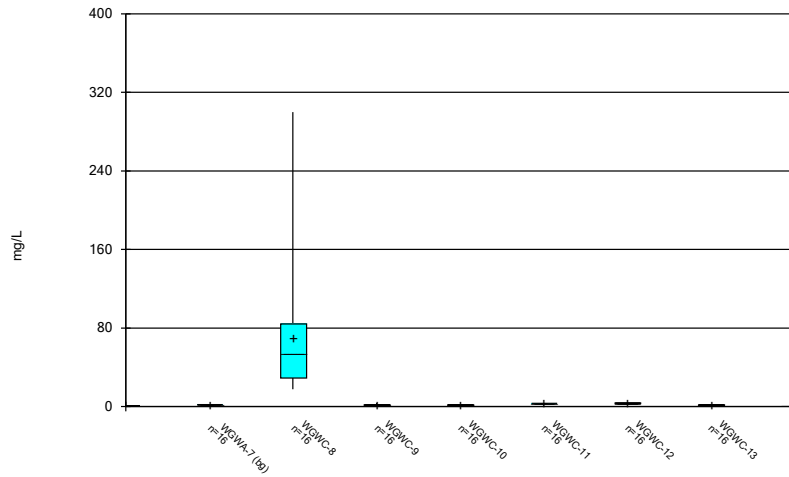
Constituent: Calcium, total Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



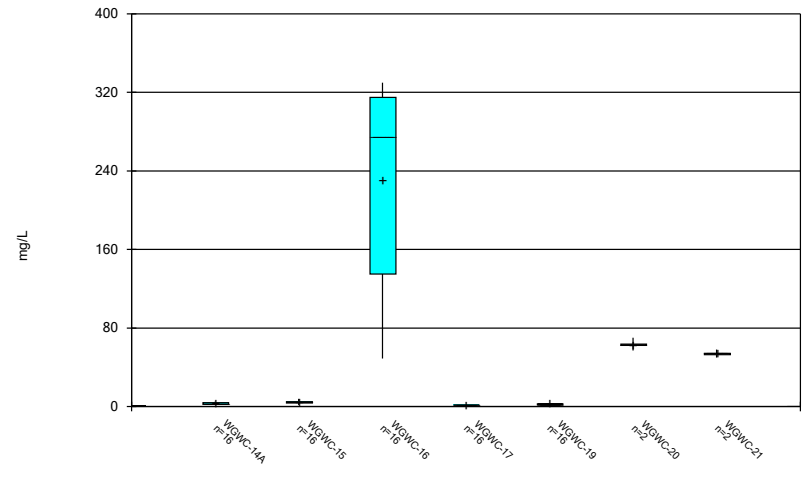
Constituent: Chloride, Total Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



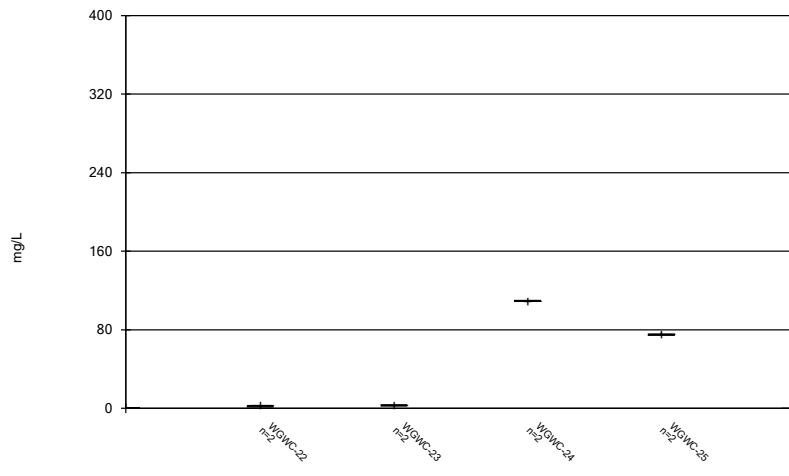
Constituent: Chloride, Total Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



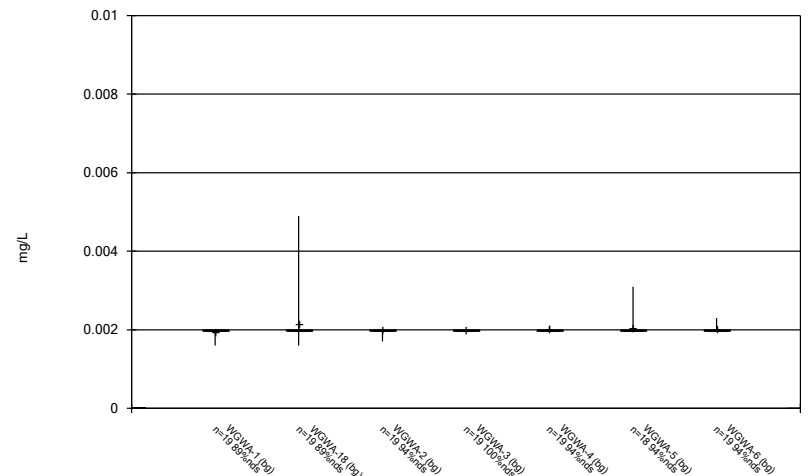
Constituent: Chloride, Total Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



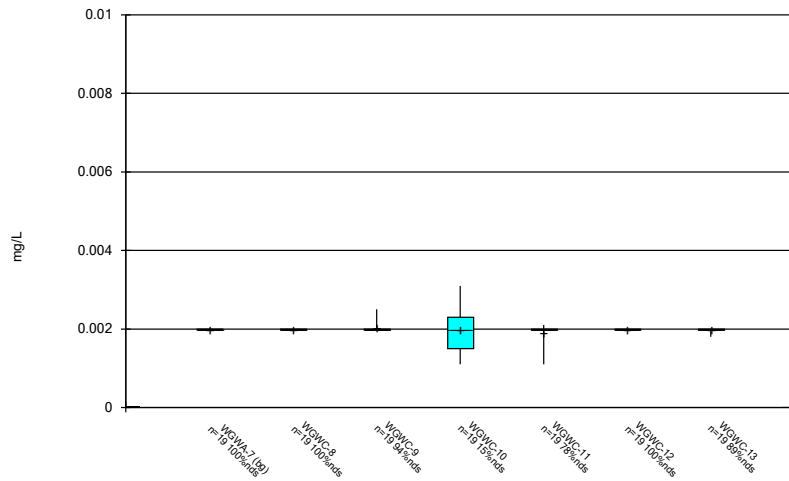
Constituent: Chloride, Total Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



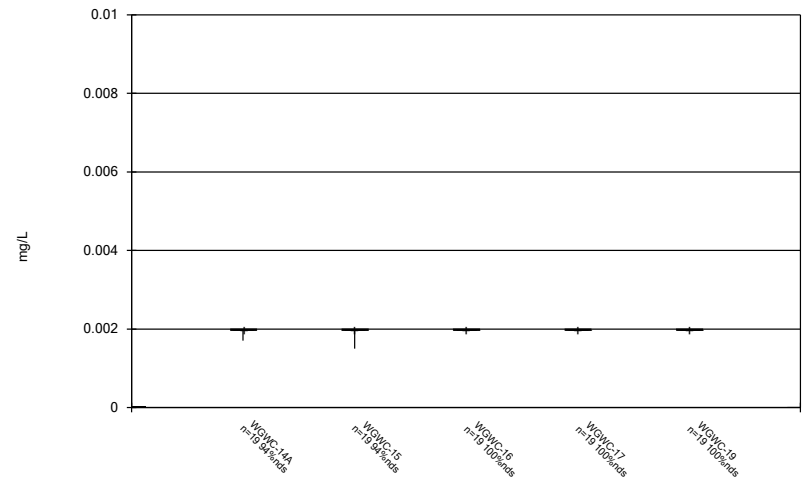
Constituent: Chromium Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



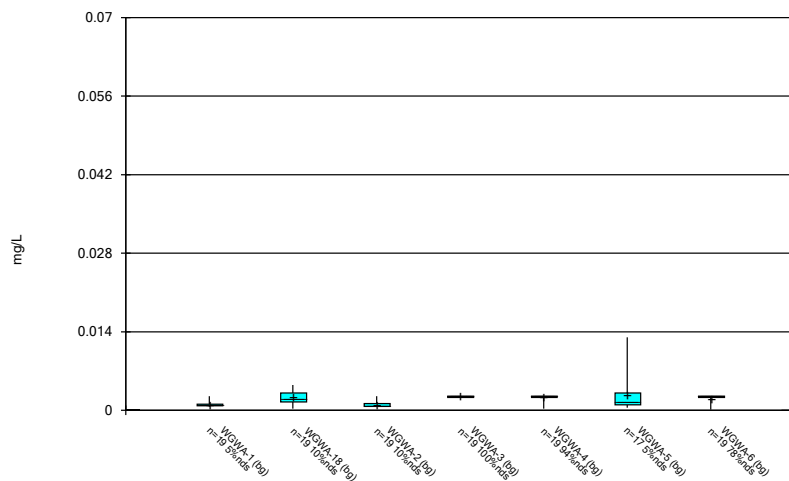
Constituent: Chromium Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



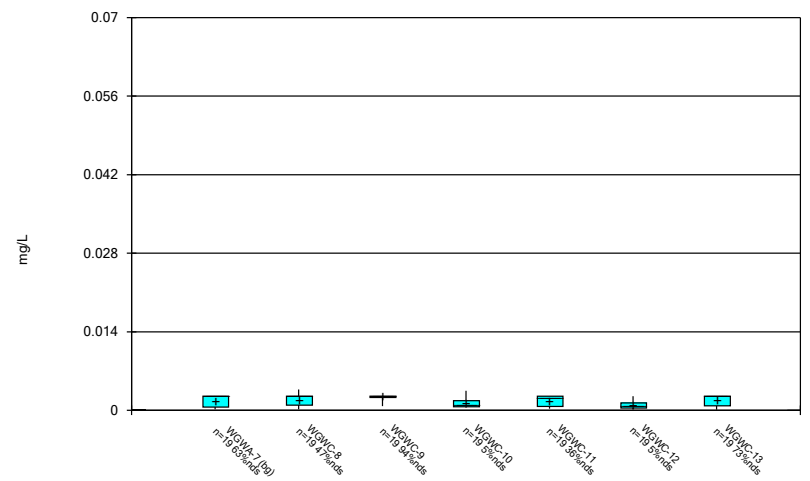
Constituent: Chromium Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



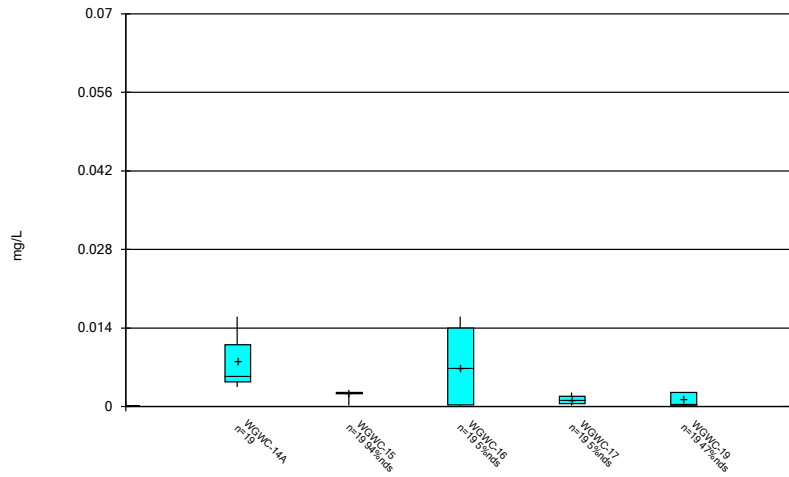
Constituent: Cobalt Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



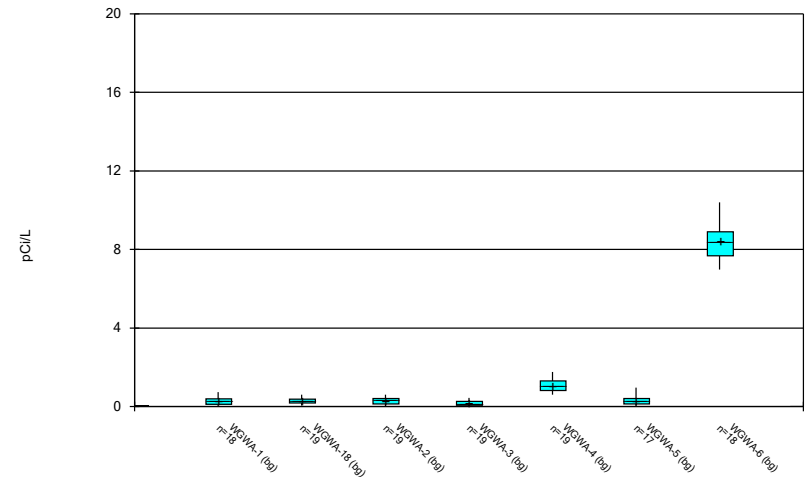
Constituent: Cobalt Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



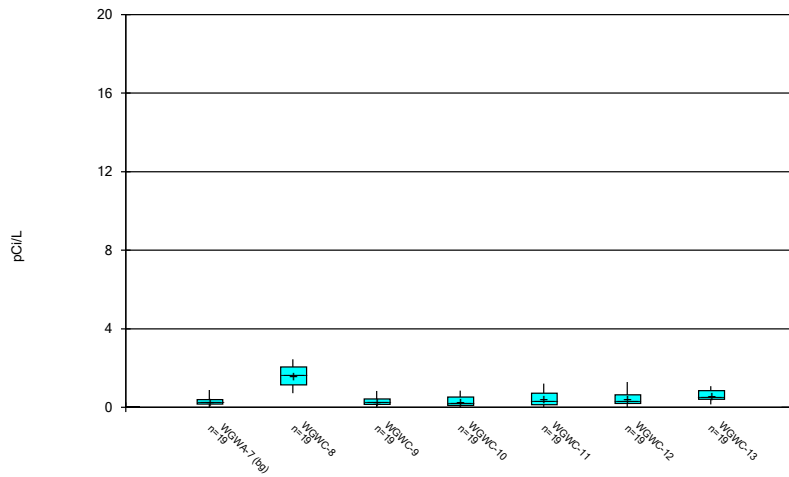
Constituent: Cobalt Analysis Run 5/11/2021 2:40 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



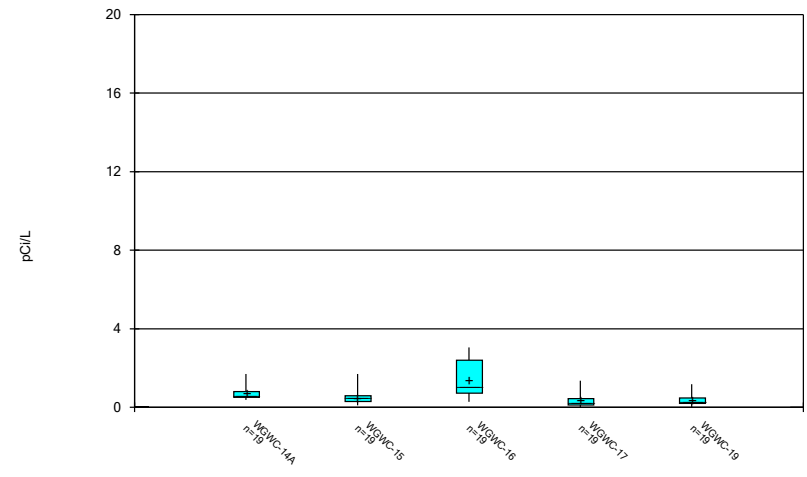
Constituent: Combined Radium 226 + 228 Analysis Run 5/11/2021 2:40 PM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



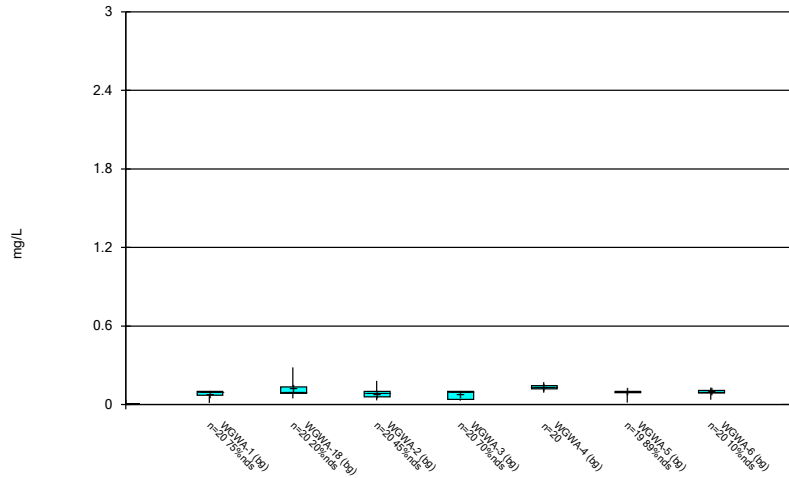
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



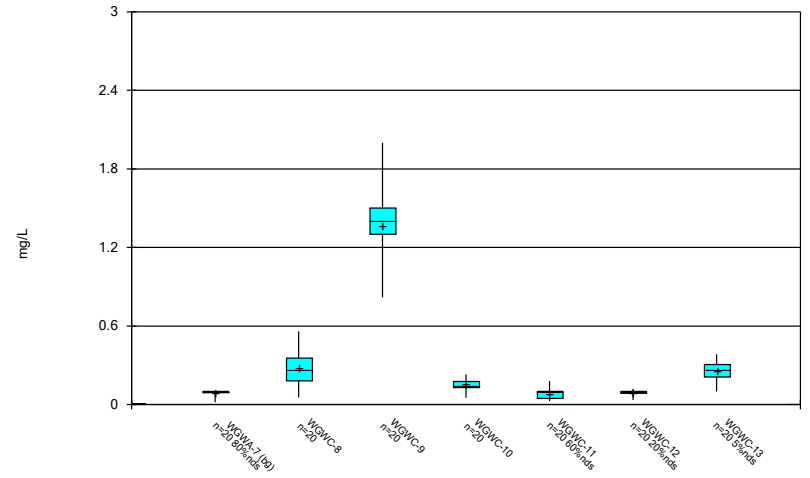
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



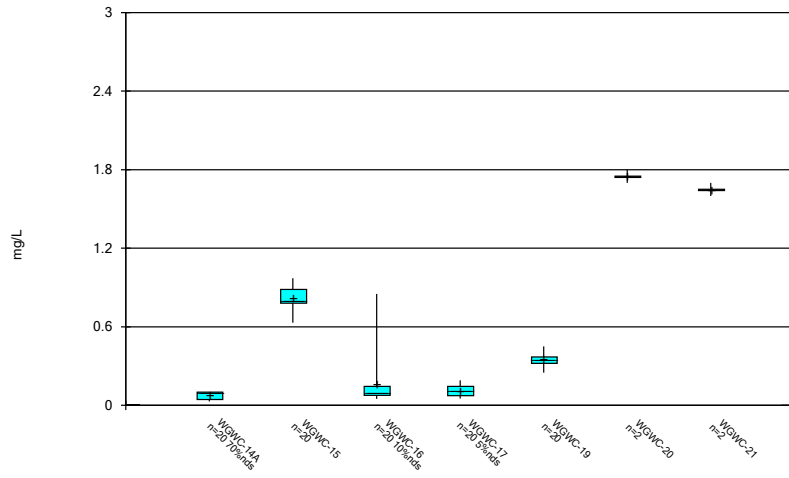
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



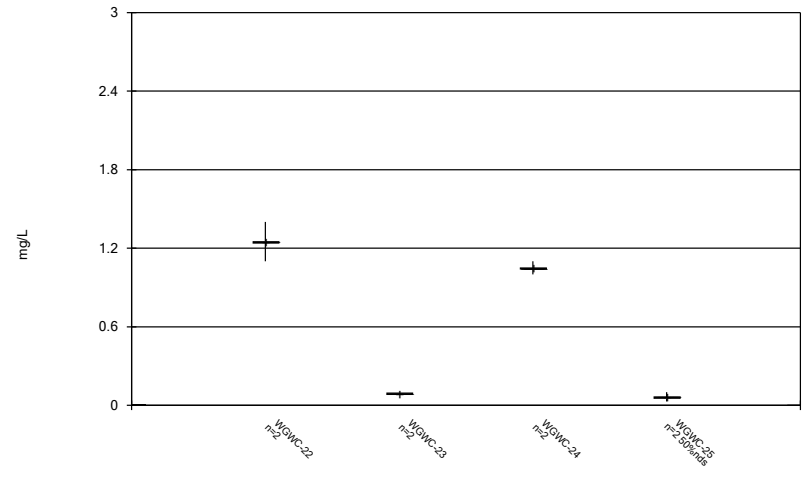
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



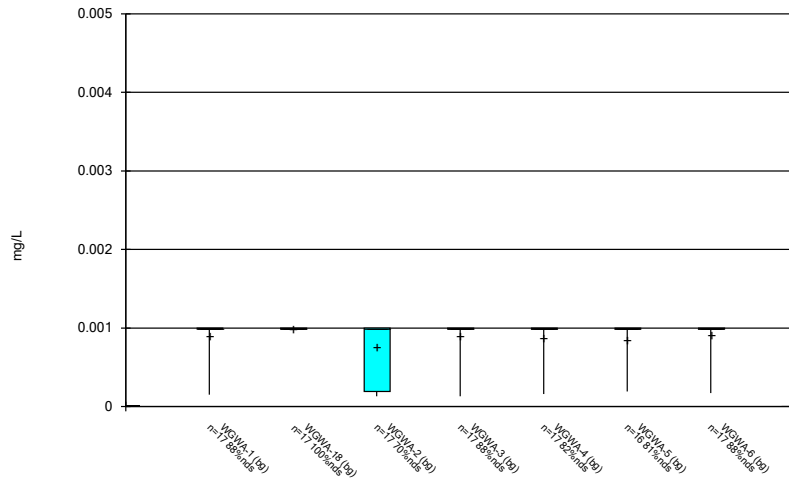
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



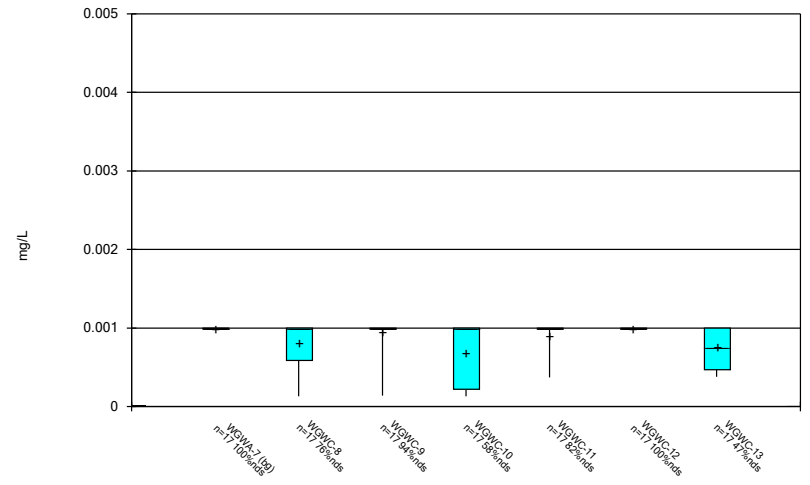
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



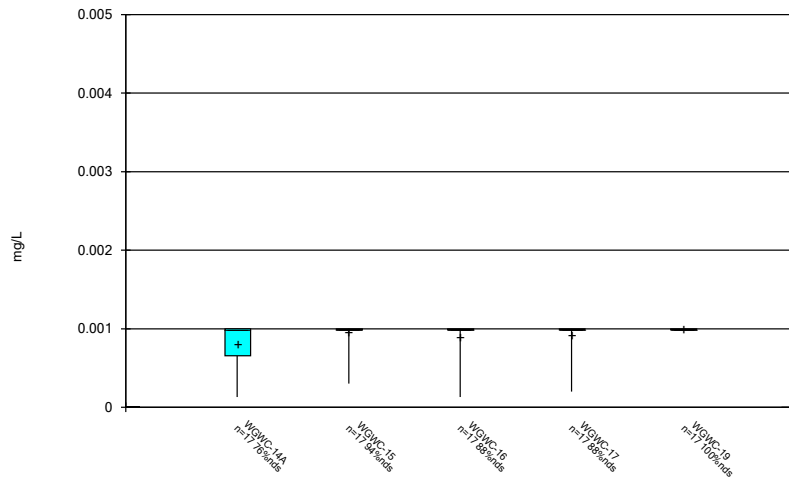
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



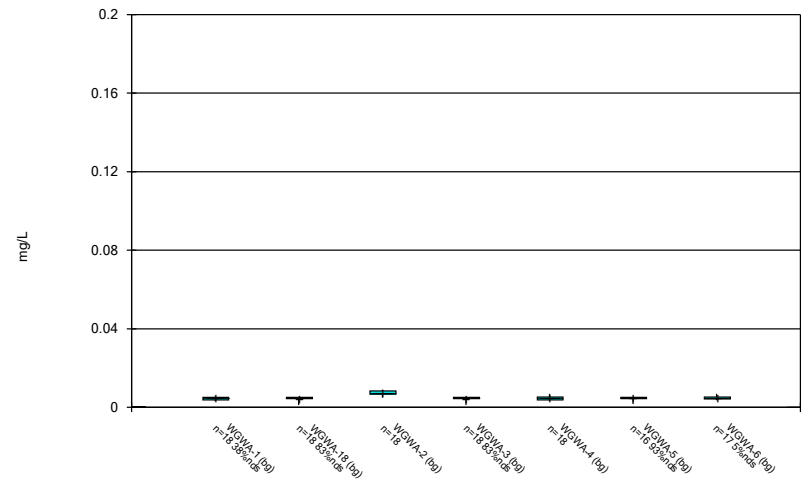
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



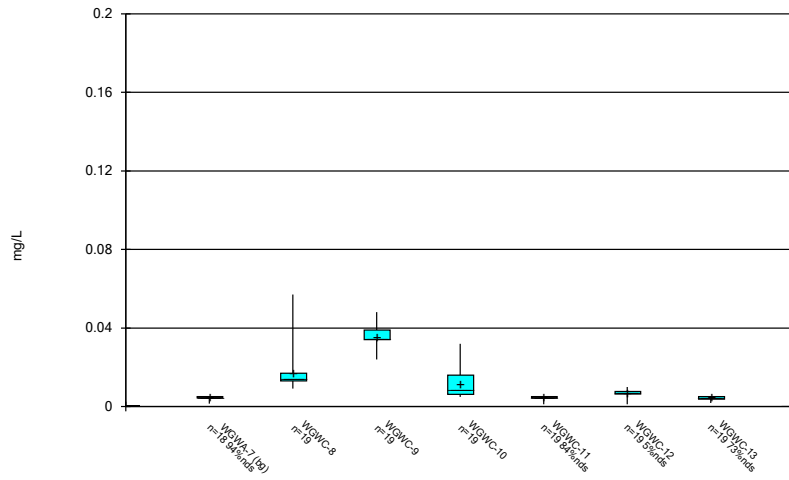
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



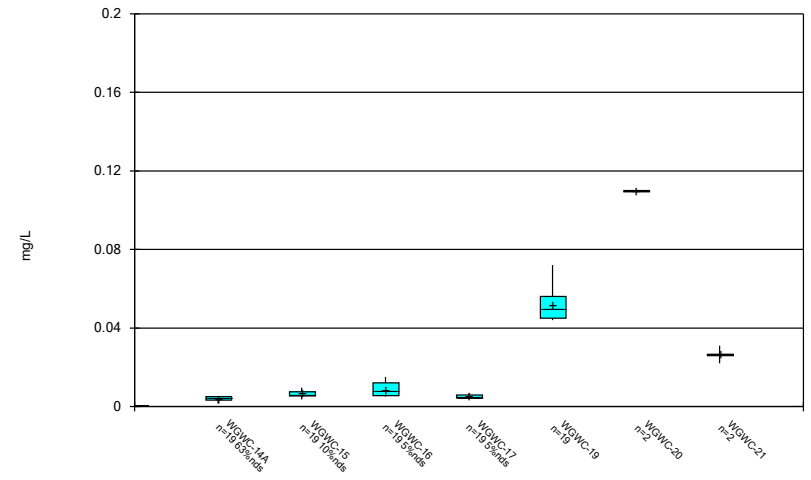
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



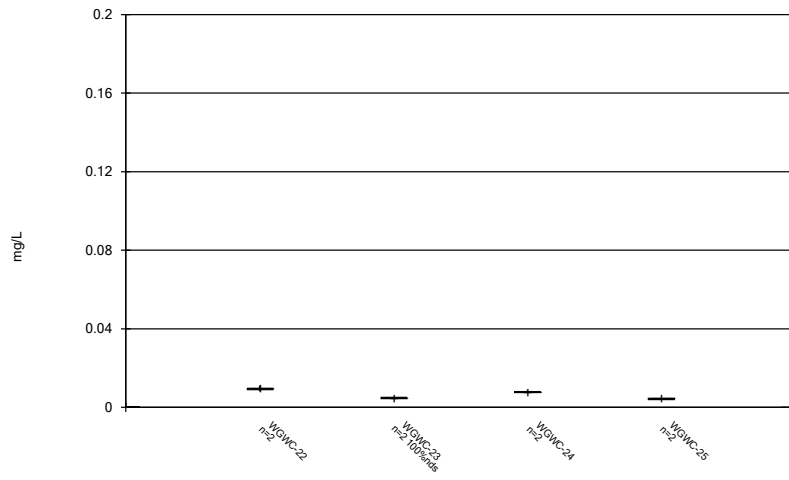
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



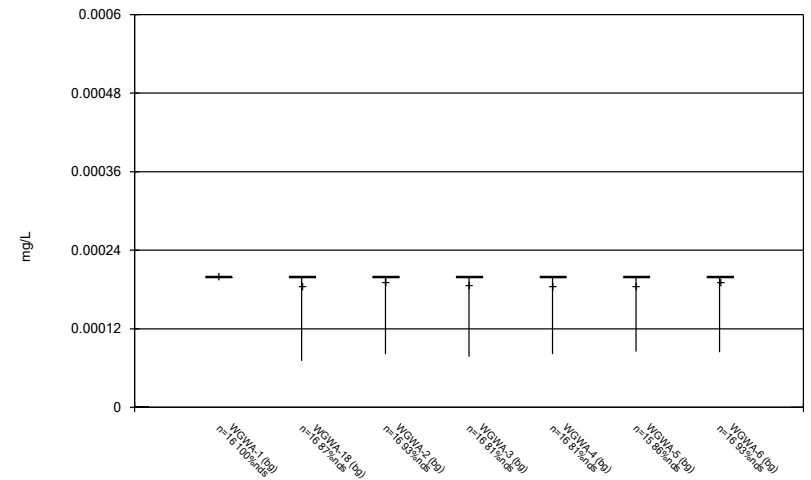
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



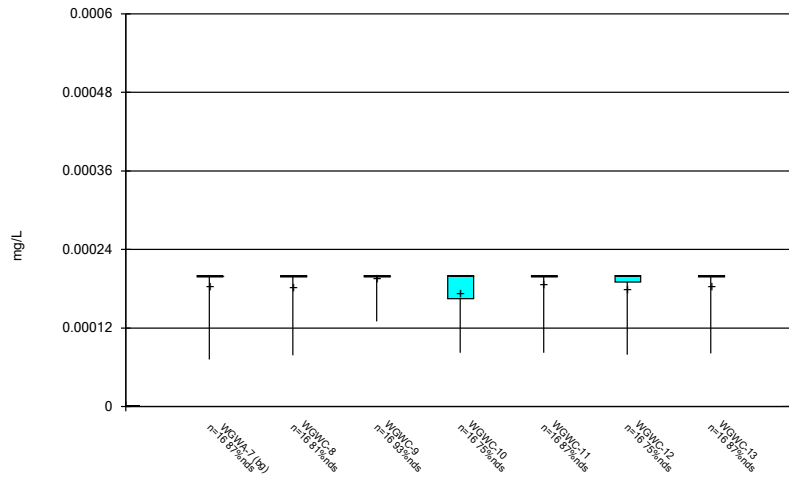
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



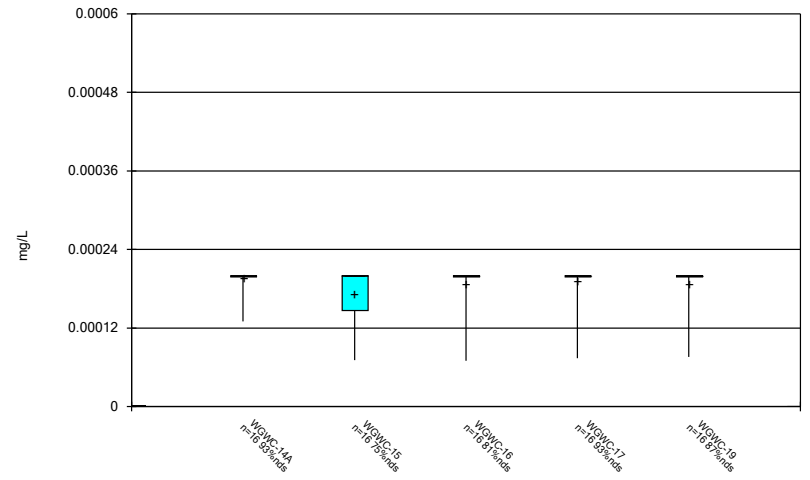
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



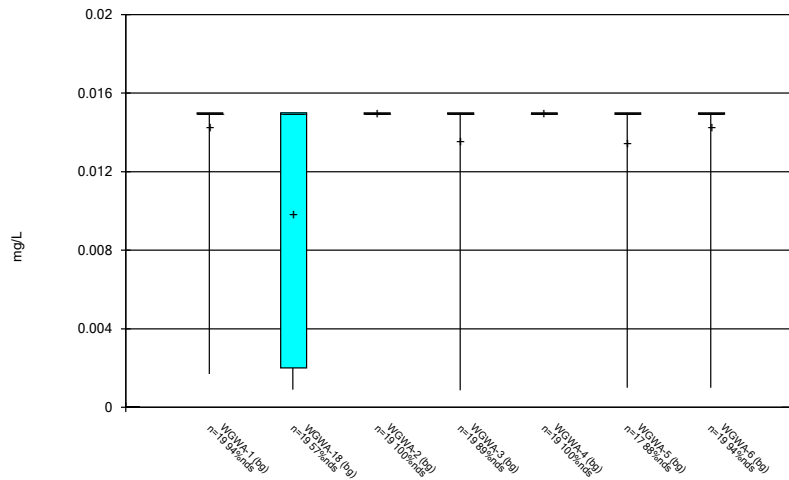
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



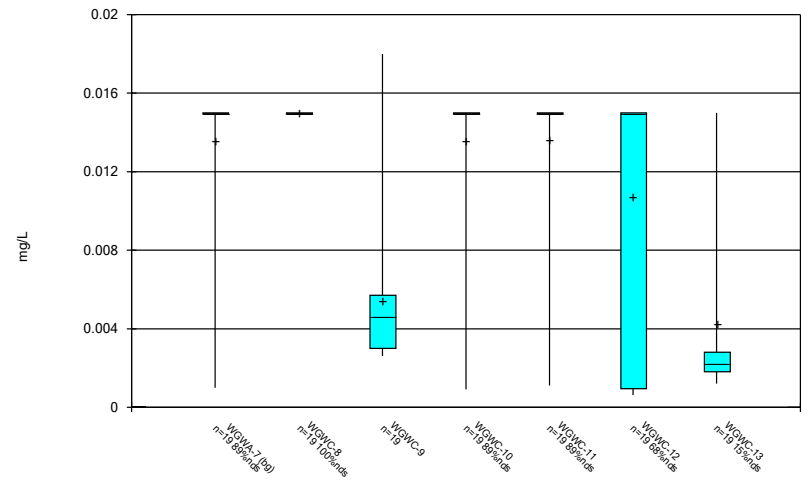
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



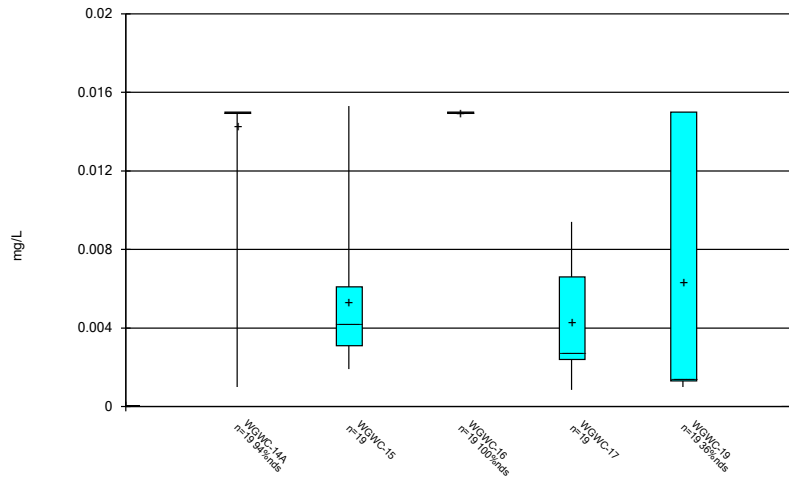
Constituent: Molybdenum Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



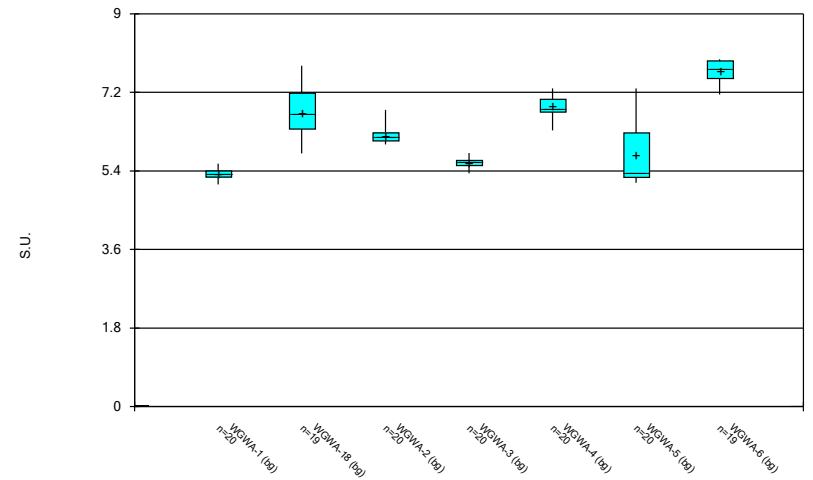
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



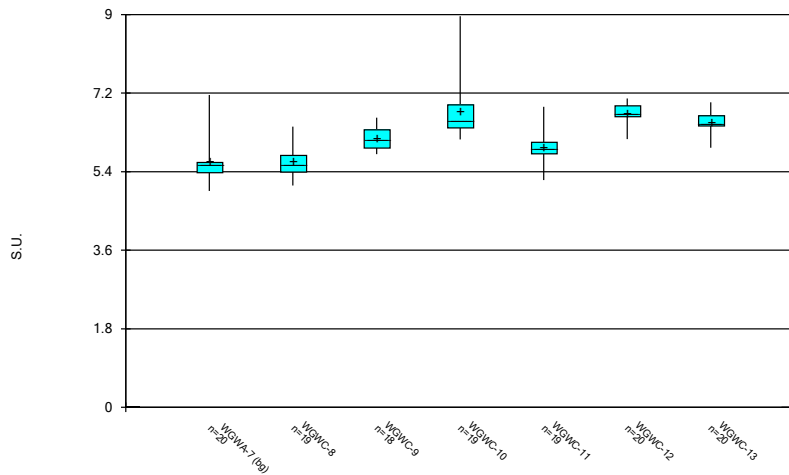
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



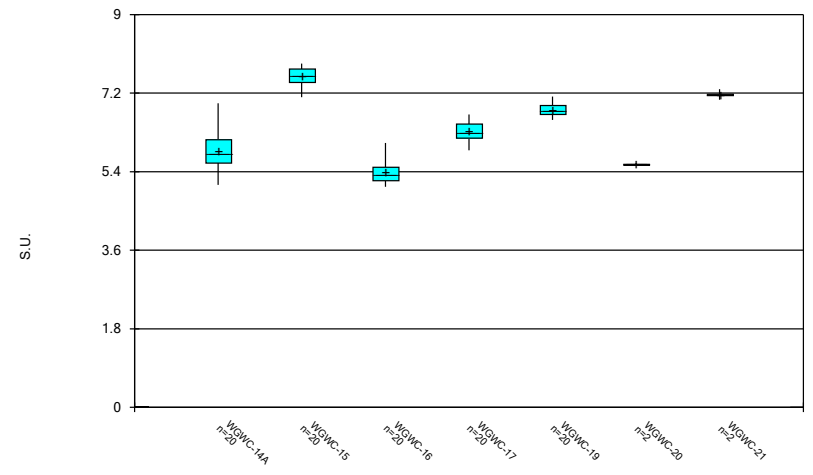
Constituent: pH, Field Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



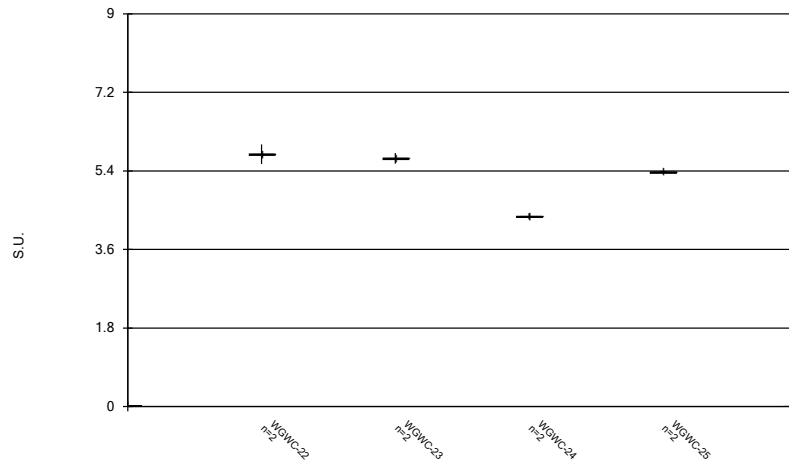
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



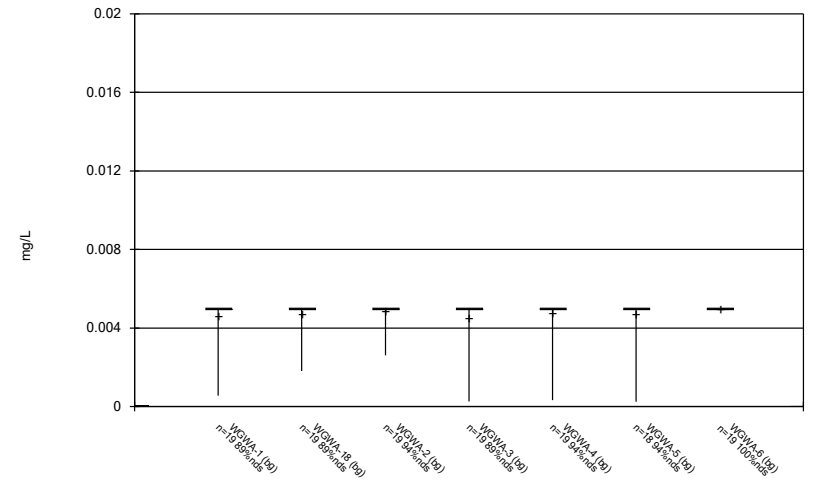
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Box & Whiskers Plot



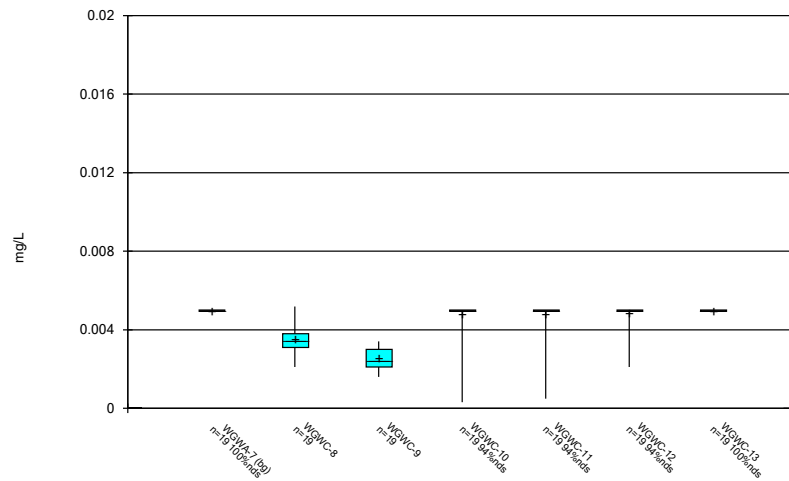
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



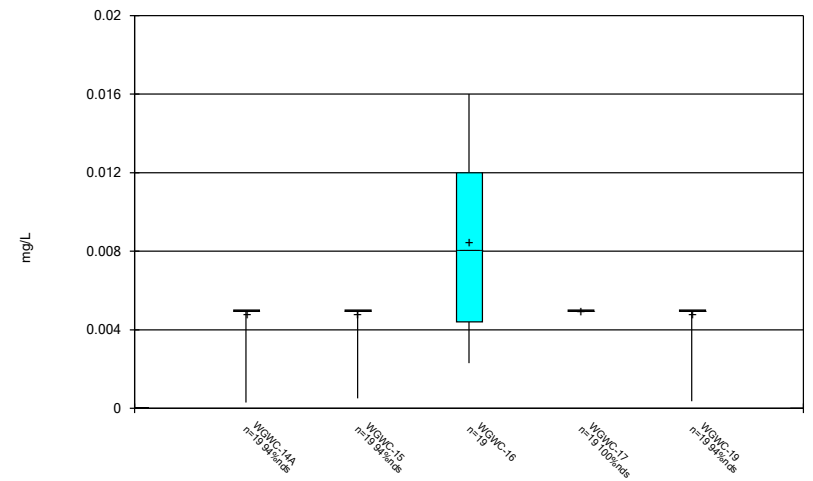
Constituent: Selenium Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



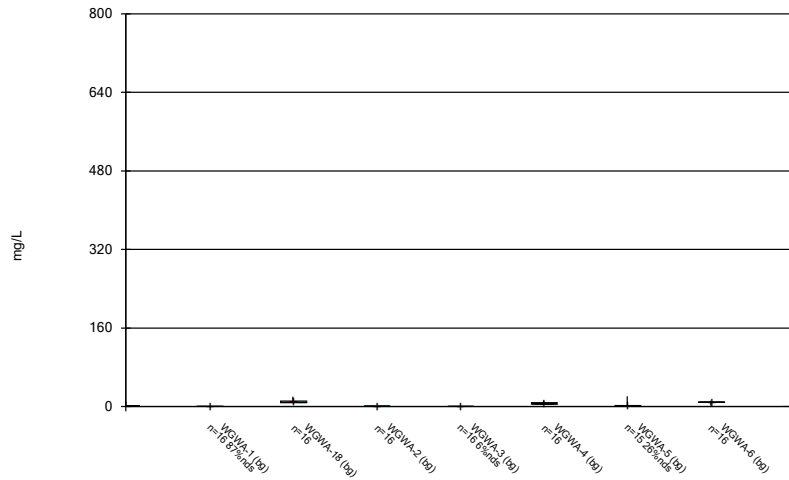
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



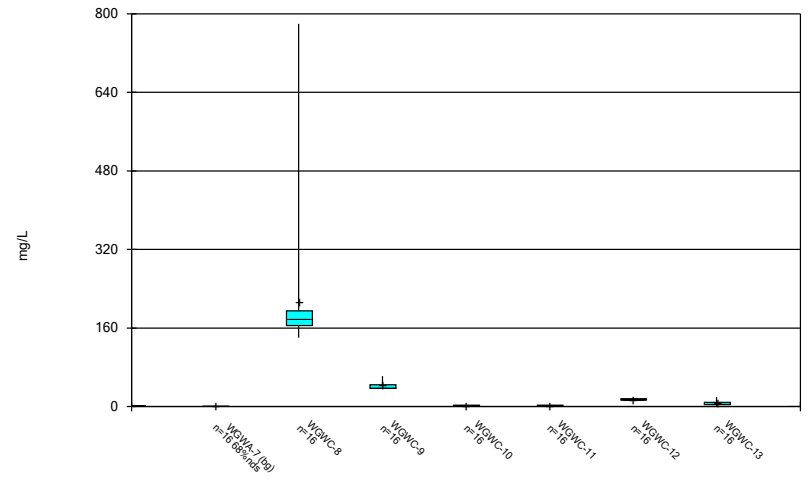
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



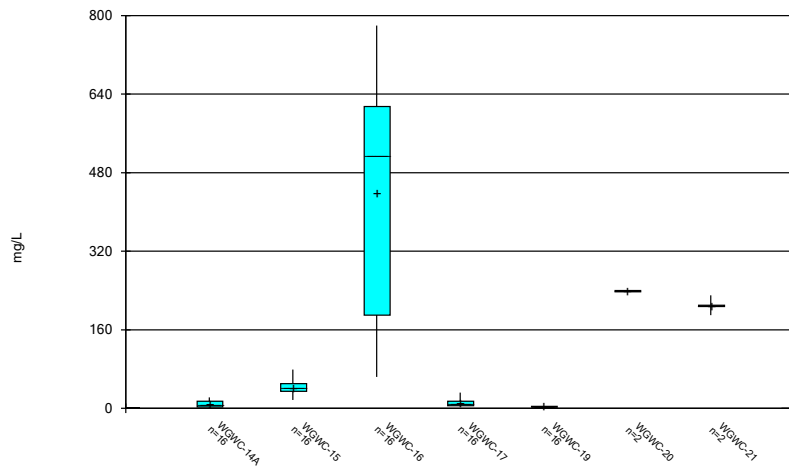
Constituent: Sulfate as SO4 Analysis Run 5/11/2021 2:40 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



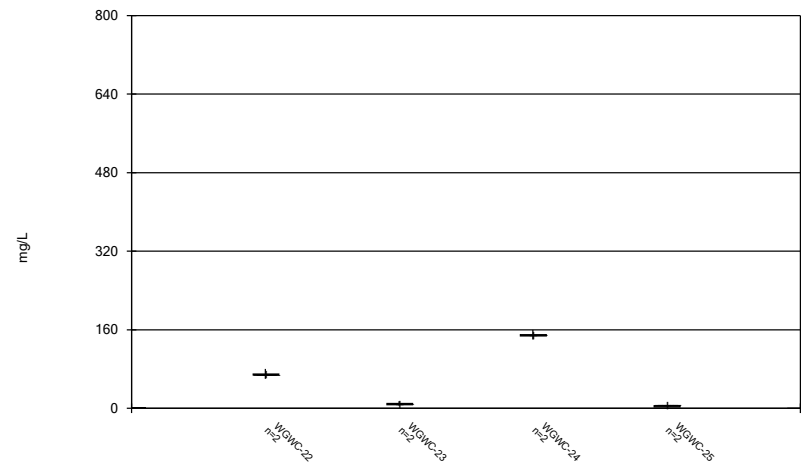
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



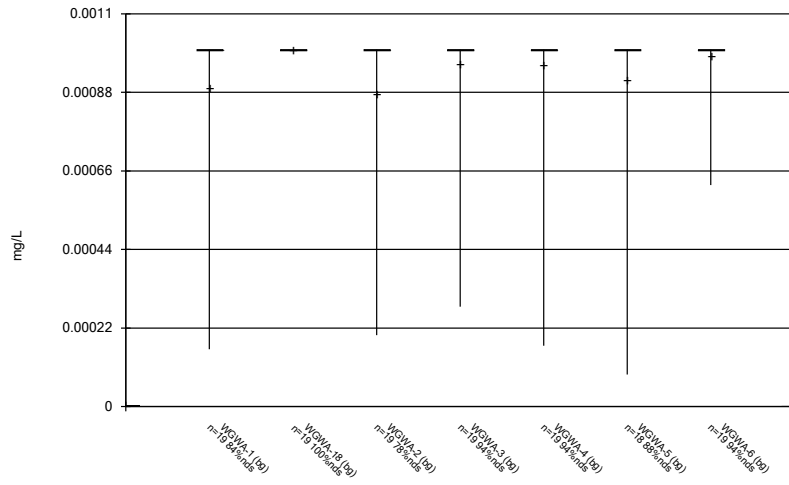
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



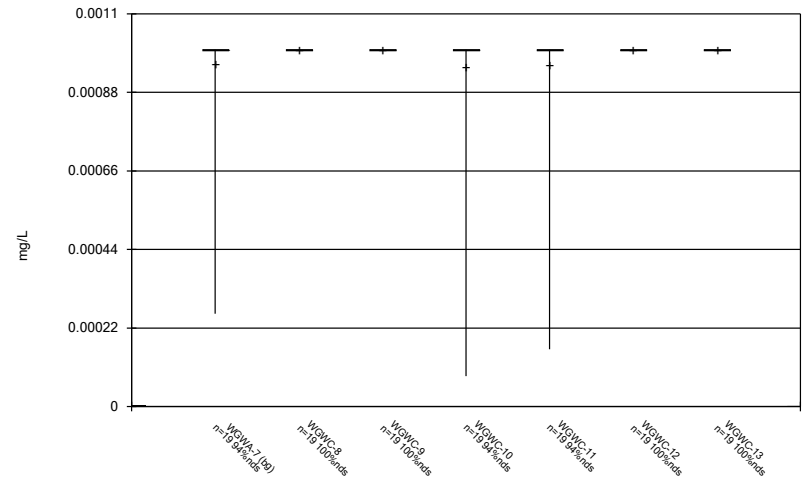
Constituent: Sulfate as SO4 Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



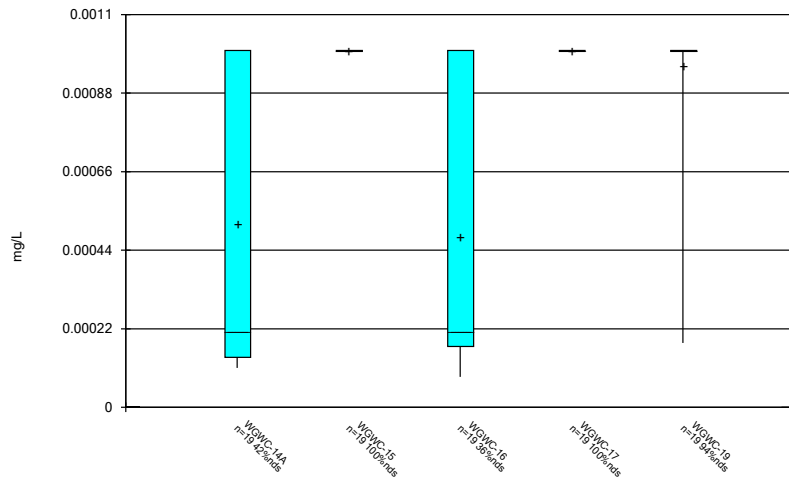
Constituent: Thallium Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



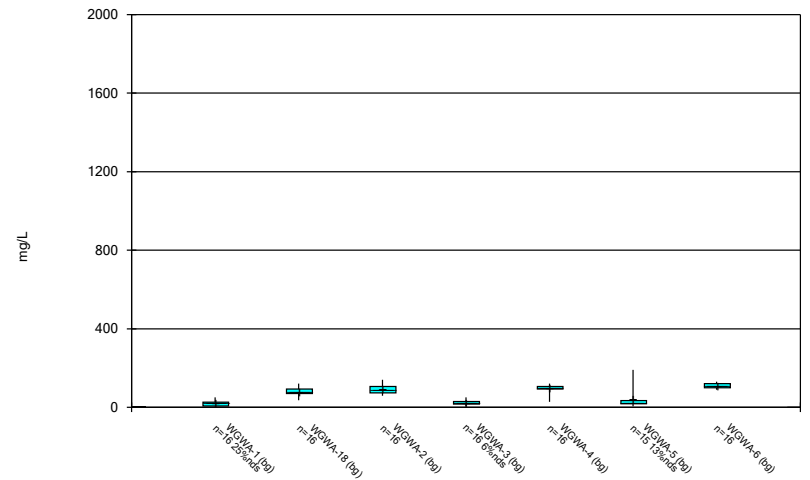
Constituent: Thallium Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



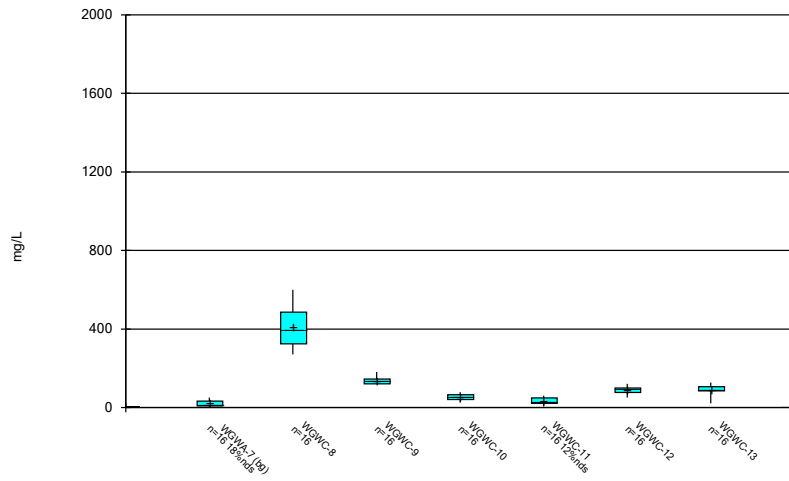
Constituent: Thallium Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



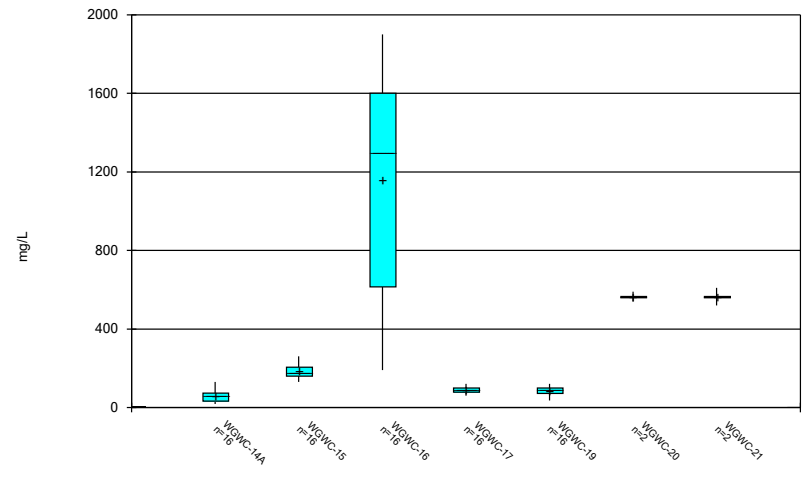
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



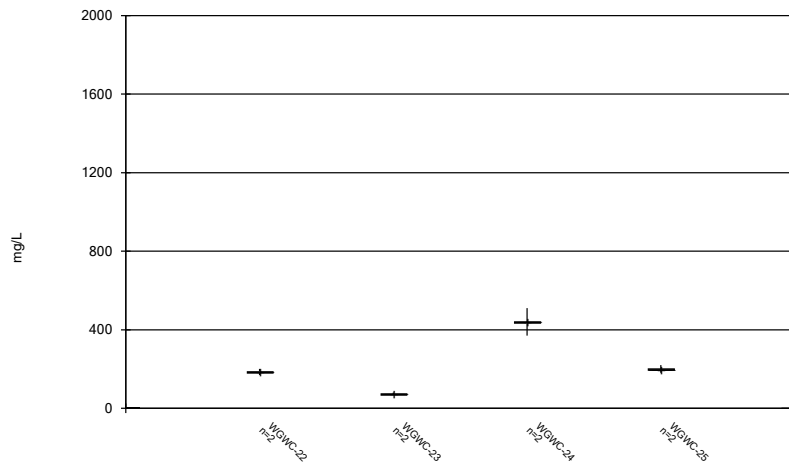
Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 5/11/2021 2:41 PM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE C.

Outlier Summary

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 12:13 PM

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 5/11/2021, 1:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	WGWC-16	0.08	n/a	3/11/2021	1.1	Yes	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.08	n/a	3/11/2021	2.4	Yes	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.08	n/a	3/12/2021	0.64	Yes	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-8	58	n/a	3/11/2021	83	Yes	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-16	6.05	n/a	3/11/2021	49	Yes	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-8	6.05	n/a	3/11/2021	110	Yes	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-15	0.284	n/a	3/12/2021	0.88	Yes	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-19	0.284	n/a	3/11/2021	0.31	Yes	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-9	0.284	n/a	3/12/2021	0.98	Yes	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-16	21	n/a	3/11/2021	64	Yes	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-8	21	n/a	3/11/2021	220	Yes	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-9	21	n/a	3/12/2021	62	Yes	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-8	190	n/a	3/11/2021	530	Yes	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	WGWC-10	0.08	n/a	3/11/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-11	0.08	n/a	3/12/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-12	0.08	n/a	3/12/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-13	0.08	n/a	3/11/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-14A	0.08	n/a	3/11/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-15	0.08	n/a	3/12/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-16	0.08	n/a	3/11/2021	1.1	Yes	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-17	0.08	n/a	3/11/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-19	0.08	n/a	3/11/2021	0.08ND	No	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.08	n/a	3/11/2021	2.4	Yes	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.08	n/a	3/12/2021	0.64	Yes	127	n/a	n/a	98.43	n/a	n/a	0.0001223	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-10	58	n/a	3/11/2021	7.9	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-11	58	n/a	3/12/2021	1.6	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-12	58	n/a	3/12/2021	15	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-13	58	n/a	3/11/2021	4	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-14A	58	n/a	3/11/2021	0.79	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-15	58	n/a	3/12/2021	31	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-16	58	n/a	3/11/2021	32	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-17	58	n/a	3/11/2021	5.7	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-19	58	n/a	3/11/2021	15	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-8	58	n/a	3/11/2021	83	Yes	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-9	58	n/a	3/12/2021	11	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-10	6.05	n/a	3/11/2021	1.7	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-11	6.05	n/a	3/12/2021	3.6	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-12	6.05	n/a	3/12/2021	3.5	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-13	6.05	n/a	3/11/2021	1.2	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-14A	6.05	n/a	3/11/2021	2.6	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-15	6.05	n/a	3/12/2021	1.6	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-16	6.05	n/a	3/11/2021	49	Yes	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-17	6.05	n/a	3/11/2021	1.3	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-19	6.05	n/a	3/11/2021	2.9	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-8	6.05	n/a	3/11/2021	110	Yes	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-9	6.05	n/a	3/12/2021	3.4	No	127	n/a	n/a	0	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-10	0.284	n/a	3/11/2021	0.15	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-11	0.284	n/a	3/12/2021	0.044J	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-12	0.284	n/a	3/12/2021	0.096J	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-13	0.284	n/a	3/11/2021	0.18	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-14A	0.284	n/a	3/11/2021	0.04J	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-15	0.284	n/a	3/12/2021	0.88	Yes	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-16	0.284	n/a	3/11/2021	0.061J	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-17	0.284	n/a	3/11/2021	0.05J	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-19	0.284	n/a	3/11/2021	0.31	Yes	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-8	0.284	n/a	3/11/2021	0.16	No	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-9	0.284	n/a	3/12/2021	0.98	Yes	159	n/a	n/a	48.43	n/a	n/a	0.00007753	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-10	7.96	4.96	3/11/2021	6.56	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-11	7.96	4.96	3/12/2021	5.46	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-12	7.96	4.96	3/12/2021	6.66	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-13	7.96	4.96	3/11/2021	5.95	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-14A	7.96	4.96	3/11/2021	5.1	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-15	7.96	4.96	3/12/2021	7.72	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-16	7.96	4.96	3/11/2021	5.21	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-17	7.96	4.96	3/11/2021	5.96	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-19	7.96	4.96	3/11/2021	7.12	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-8	7.96	4.96	3/11/2021	5.35	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-9	7.96	4.96	3/12/2021	5.88	No	158	n/a	n/a	0	n/a	n/a	0.0001574	NP Inter (normality) 1 of 2

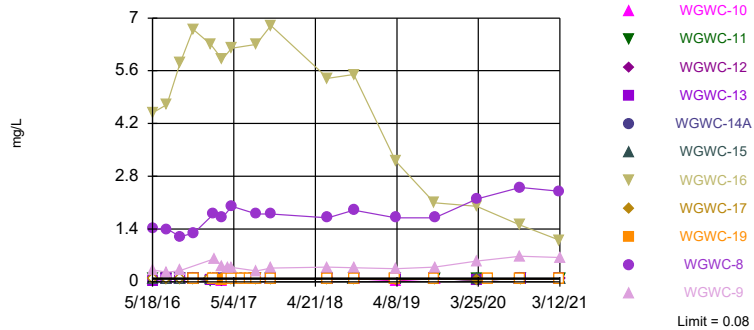
Appendix III Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	WGWC-10	21	n/a	3/11/2021	2.8	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-11	21	n/a	3/12/2021	2	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-12	21	n/a	3/12/2021	14	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-13	21	n/a	3/11/2021	2.9	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-14A	21	n/a	3/11/2021	1.7	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-15	21	n/a	3/12/2021	19	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-16	21	n/a	3/11/2021	64	Yes	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-17	21	n/a	3/11/2021	3.9	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-19	21	n/a	3/11/2021	4	No	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-8	21	n/a	3/11/2021	220	Yes	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-9	21	n/a	3/12/2021	62	Yes	127	n/a	n/a	23.62	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-10	190	n/a	3/11/2021	52	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-11	190	n/a	3/12/2021	27	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-12	190	n/a	3/12/2021	78	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-13	190	n/a	3/11/2021	63	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-14A	190	n/a	3/11/2021	24	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-15	190	n/a	3/12/2021	130	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-16	190	n/a	3/11/2021	190	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-17	190	n/a	3/11/2021	75	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-19	190	n/a	3/11/2021	100	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-8	190	n/a	3/11/2021	530	Yes	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-9	190	n/a	3/12/2021	130	No	127	n/a	n/a	7.874	n/a	n/a	0.0001223	NP Inter (normality) 1 of 2

Exceeds Limit: WGWC-16, WGWC-8,
WGWC-9

Prediction Limit Interwell Non-parametric

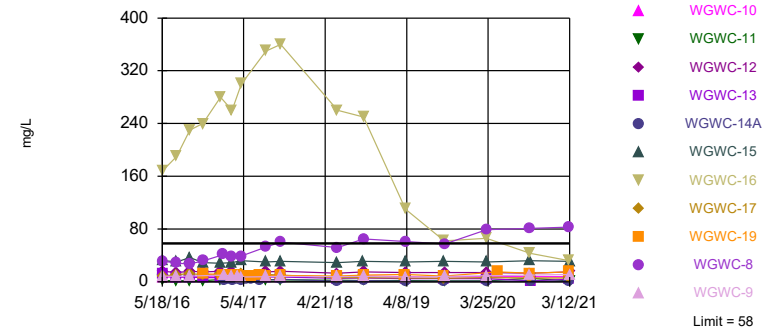


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 127 background values. 98.43% NDs. Annual per-constituent alpha = 0.002686. Individual comparison alpha = 0.0001223 (1 of 2). Comparing 11 points to limit.

Constituent: Boron Analysis Run 5/11/2021 1:03 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-8

Prediction Limit Interwell Non-parametric

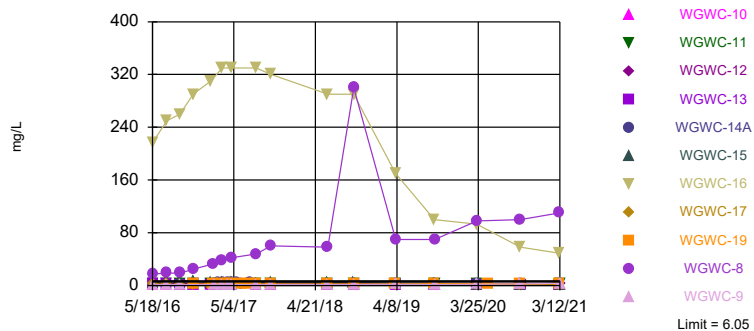


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 127 background values. Annual per-constituent alpha = 0.002686. Individual comparison alpha = 0.0001223 (1 of 2). Comparing 11 points to limit.

Constituent: Calcium Analysis Run 5/11/2021 1:03 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-16, WGWC-8

Prediction Limit Interwell Non-parametric

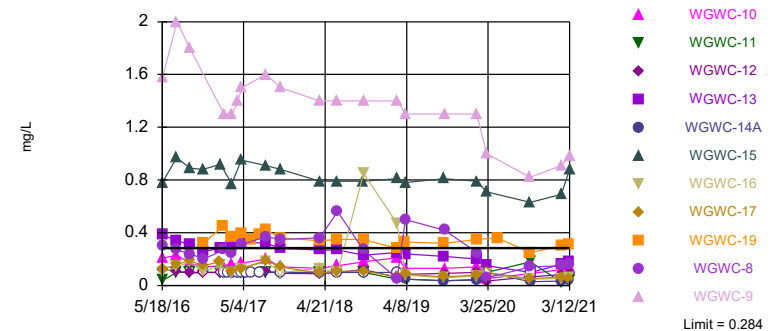


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 127 background values. Annual per-constituent alpha = 0.002686. Individual comparison alpha = 0.0001223 (1 of 2). Comparing 11 points to limit.

Constituent: Chloride Analysis Run 5/11/2021 1:03 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-15, WGWC-19,
WGWC-9

Prediction Limit Interwell Non-parametric

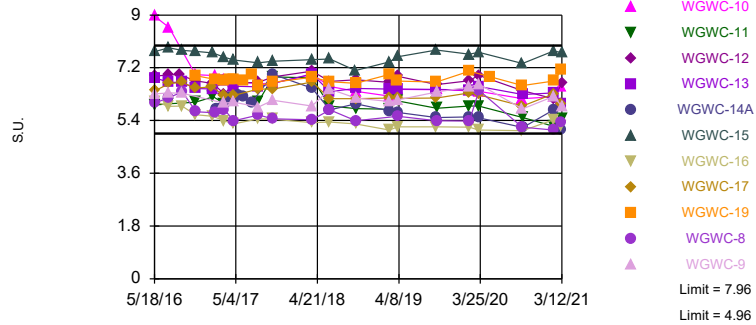


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 159 background values. 48.43% NDs. Annual per-constituent alpha = 0.001704. Individual comparison alpha = 0.00007753 (1 of 2). Comparing 11 points to limit.

Constituent: Fluoride Analysis Run 5/11/2021 1:03 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

Prediction Limit
Interwell Non-parametric

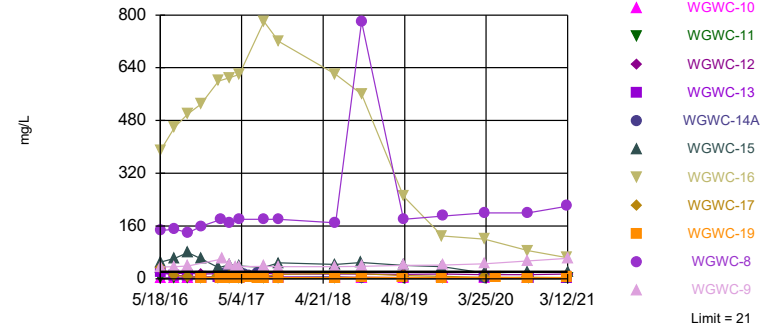


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 158 background values. Annual per-constituent alpha = 0.003459. Individual comparison alpha = 0.0001574 (1 of 2). Comparing 11 points to limit.

Constituent: pH Analysis Run 5/11/2021 1:03 PM 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

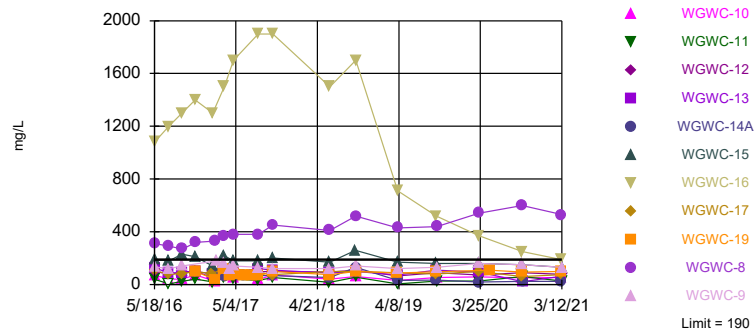


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 127 background values. 23.62% NDs. Annual per-constituent alpha = 0.002686. Individual comparison alpha = 0.0001223 (1 of 2). Comparing 11 points to limit.

Constituent: Sulfate Analysis Run 5/11/2021 1:03 PM 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 127 background values. 7.874% NDs. Annual per-constituent alpha = 0.002686. Individual comparison alpha = 0.0001223 (1 of 2). Comparing 11 points to limit.

Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:03 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-6 (bg)	WGWA-3 (bg)	WGWC-16	WGWA-7 (bg)	WGWC-17	WGWA-4 (bg)
5/17/2016	<0.08	<0.08	<0.08						
5/18/2016				<0.08	<0.08	4.48	<0.08	<0.08	<0.08
5/19/2016									
7/19/2016	<0.08	<0.08	<0.08	<0.08		4.7	<0.08		
7/20/2016					<0.08			<0.08	<0.08
9/13/2016	<0.08	<0.08	<0.08	<0.08	<0.08		<0.08		<0.08
9/14/2016						5.8		<0.08	
9/15/2016									
11/9/2016	<0.08	<0.08	<0.08	<0.08					
11/10/2016					<0.08	6.7	<0.08	<0.08	<0.08
11/11/2016									
11/14/2016									
1/17/2017	<0.08	<0.08							
1/18/2017				<0.08	<0.08		<0.08		<0.08
1/19/2017			<0.08						
1/20/2017								<0.08	
1/24/2017						6.3			
1/27/2017									
2/6/2017									
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	<0.08
3/15/2017						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	<0.08
4/26/2017									
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.08	<0.08	<0.08	<0.08	<0.08		<0.08		
8/9/2017						6.3		<0.08	<0.08
8/10/2017									
10/10/2017	<0.08	<0.08							
10/11/2017			<0.08	<0.08	<0.08	6.8	<0.08	<0.08	<0.08
10/12/2017									
6/13/2018	<0.08		<0.08	<0.08					
6/14/2018		<0.08			<0.08	5.4	<0.08	<0.08	<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		<0.08
10/4/2018						5.5		<0.08	
4/1/2019	<0.08	<0.08							
4/2/2019			<0.08	<0.08	<0.08		<0.08		<0.08
4/3/2019									
4/4/2019						3.2		0.049 (J)	
9/16/2019	<0.08			<0.08					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-15	WGWA-5 (bg)	WGWC-8	WGWC-13	WGWC-12	WGWC-9	WGWC-11	WGWC-19
5/17/2016									
5/18/2016	<0.08	<0.08	<0.08						
5/19/2016				1.42	0.0252 (J)	<0.08	0.314	<0.08	
7/19/2016		<0.08	<0.08						
7/20/2016	<0.08			1.4	<0.08	<0.08	0.25	<0.08	
9/13/2016									
9/14/2016	<0.08	<0.08	<0.08		<0.08	<0.08	0.3	<0.08	
9/15/2016				1.2					
11/9/2016									
11/10/2016		<0.08			<0.08				
11/11/2016	<0.08					<0.08		<0.08	<0.08
11/14/2016				1.3					
1/17/2017									
1/18/2017									
1/19/2017			<0.08						
1/20/2017									
1/24/2017		<0.08							
1/27/2017					0.033 (J)	0.047 (J)		0.021 (J)	
2/6/2017	<0.08			1.8					<0.08
2/8/2017									
2/9/2017							0.61		
2/23/2017									
3/13/2017									
3/14/2017		<0.08	<0.08						
3/15/2017	0.032 (J)			1.7	<0.08	0.024 (J)	0.42	0.058	0.034 (J)
3/17/2017									
4/11/2017							0.37		<0.08
4/24/2017									
4/25/2017		<0.08	<0.08						
4/26/2017	<0.08			2	<0.08	<0.08	0.38	<0.08	<0.08
5/17/2017									
6/7/2017									<0.08
7/11/2017									<0.08
8/8/2017									
8/9/2017		<0.08	<0.08		<0.08				
8/10/2017	<0.08			1.8		<0.08	0.29	<0.08	<0.08
10/10/2017									
10/11/2017		<0.08	<0.08						
10/12/2017	<0.08			1.8	<0.08	<0.08	0.36	<0.08	<0.08
6/13/2018			<0.08						
6/14/2018	<0.08	<0.08		1.7	<0.08	<0.08	0.39	<0.08	<0.08
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018		<0.08	<0.08						
10/4/2018	<0.08			1.9	<0.08	<0.08	0.37	<0.08	<0.08
4/1/2019									
4/2/2019			<0.08						<0.08
4/3/2019				1.7	<0.08	<0.08	0.35	<0.08	
4/4/2019	0.024 (J)	<0.08							
9/16/2019			<0.08						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-15	WGWA-5 (bg)	WGWC-8	WGWC-13	WGWC-12	WGWC-9	WGWC-11	WGWC-19
9/17/2019									
9/18/2019		<0.08			<0.08				<0.08
9/19/2019	<0.08			1.7		<0.08	0.39	<0.08	
3/16/2020									
3/17/2020			<0.08						
3/18/2020	0.049 (J)	0.071 (J)				0.039 (J)		<0.08	
3/19/2020				2.2	0.053 (J)		0.55		
5/4/2020									<0.08
9/21/2020									
9/22/2020			<0.08	2.5					
9/23/2020	<0.08	<0.08				<0.08	0.68		<0.08
9/24/2020					<0.08			<0.08	
3/10/2021			<0.08						
3/11/2021	<0.08			2.4	<0.08				<0.08
3/12/2021		<0.08				<0.08	0.64	<0.08	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/11/2021 1:04 PM 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 5/11/2021 1:04 PM 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
3/10/2021	
3/11/2021	<0.08
3/12/2021	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-6 (bg)	WGWA-3 (bg)	WGWC-16	WGWA-7 (bg)	WGWC-17	WGWA-4 (bg)
5/17/2016	0.927	12.2	23.7						
5/18/2016				27	2.1	168	1.36	8.24	17.9
5/19/2016									
7/19/2016	1	13	23	23		190	0.88		
7/20/2016					1.7			11	15
9/13/2016	0.44	13	23	25	1.3		0.93		16
9/14/2016						230		12	
9/15/2016									
11/9/2016	1.1	19	6.7	25					
11/10/2016					1.6	240	6.1	11	15
11/11/2016									
11/14/2016									
1/17/2017	1.4	28							
1/18/2017				26	1.7		10		17
1/19/2017			8.5						
1/20/2017								10	
1/24/2017						280			
1/27/2017									
2/6/2017									
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	1.1	14							
3/14/2017			13	20	1.8		1.3	8.8	17
3/15/2017						260			
3/17/2017									
4/11/2017									
4/24/2017	1.1	12							
4/25/2017			23	28	2	300	1.9	12	17
4/26/2017									
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	1.1	18	24	26	2		4.8		
8/9/2017						350		11	15
8/10/2017									
10/10/2017	1.2	21							
10/11/2017			23	29	2.1	360	0.93	10	17
10/12/2017									
6/13/2018	1.1		11	25					
6/14/2018		12			2	260	0.94	6.2	15
9/24/2018		11							
9/27/2018	1.2								
9/28/2018			11						
10/2/2018				26					
10/3/2018					1.8		1.2		16
10/4/2018						250		6.4	
4/1/2019	1	12							
4/2/2019			20	25	1.8		1.1		15
4/3/2019									
4/4/2019						110		5.6	
9/16/2019	1.3			25					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-15	WGWA-5 (bg)	WGWC-8	WGWC-13	WGWC-12	WGWC-9	WGWC-11	WGWC-19
5/17/2016									
5/18/2016	7.17	32.5	1.7						
5/19/2016				31.4	11.4	15.8	8.53	1.95	
7/19/2016		30	1.5						
7/20/2016	7			28	7.1	14	8.2	1.5	
9/13/2016									
9/14/2016	7.7	37	52		7.4	16	8.8	1.8	
9/15/2016				27					
11/9/2016									
11/10/2016		29			6.4				
11/11/2016	8.2					15		1.7	12
11/14/2016				32					
1/17/2017									
1/18/2017									
1/19/2017			13						
1/20/2017									
1/24/2017		28							
1/27/2017					6.2	16		3.5	
2/6/2017	9.1			41					11
2/8/2017									
2/9/2017							10		
2/23/2017									
3/13/2017									
3/14/2017		29	1.6						
3/15/2017	9			38	6.7	16	8.6	3.8	10
3/17/2017									
4/11/2017							8.6		11
4/24/2017									
4/25/2017		32	1.5						
4/26/2017	8.1			39	6.5	3	7.1	4	8.4
5/17/2017									
6/7/2017									9
7/11/2017									9.5
8/8/2017									
8/9/2017		30	1.3		7				
8/10/2017	8.1			53		15	7.5	3.5	8.8
10/10/2017									
10/11/2017		31	1.5						
10/12/2017	8.6			60	7	16	8.2	2.7	9.5
6/13/2018			1.2						
6/14/2018	7.7	29		52	5.5	13	7.5	2.2	8.9
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018		31	1.4						
10/4/2018	8.5			65	5.9	15	8	2	10
4/1/2019									
4/2/2019			1.1						11
4/3/2019				61	4.7	14	7.2	1.7	
4/4/2019	7.9	30							
9/16/2019			36						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-15	WGWA-5 (bg)	WGWC-8	WGWC-13	WGWC-12	WGWC-9	WGWC-11	WGWC-19
9/17/2019									
9/18/2019		31			4.9				8.8
9/19/2019	7.5			57		14	8.1	1.4	
3/16/2020									
3/17/2020			1.4						
3/18/2020	7.5	30				14		1.6	
3/19/2020				79	5		9.3		
5/4/2020									15
9/21/2020									
9/22/2020			58	81					
9/23/2020	7.7	32				13	10		13
9/24/2020					1.4			5.2	
3/10/2021			1.3						
3/11/2021	7.9			83	4				15
3/12/2021		31				15	11	1.6	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/11/2021 1:04 PM 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 5/11/2021 1:04 PM 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
3/10/2021	
3/11/2021	0.79
3/12/2021	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-6 (bg)	WGWA-3 (bg)	WGWC-16	WGWA-7 (bg)	WGWC-17	WGWA-4 (bg)
5/17/2016	3.8	2.5	6.05						
5/18/2016				1.58	1.92	217	2.06	2.72	1.45
5/19/2016									
7/19/2016	3.9	2.6	4	1.6		250	2.1		
7/20/2016					1.8			1.9	1.4
9/13/2016	3.6	2.4	3.1	1.4	1.7		2		1.4
9/14/2016						260		1.6	
9/15/2016									
11/9/2016	3.9	2.3	2.3	1.5					
11/10/2016					1.6	290	1.8	1.6	1.3
11/11/2016									
11/14/2016									
1/17/2017	3.8	2.3							
1/18/2017				1.5	1.7		1.8		1.3
1/19/2017			2						
1/20/2017								1.5	
1/24/2017						310			
1/27/2017									
2/6/2017									
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	3.4	2.2							
3/14/2017			1.9	2.5	1.6		1.8	1.5	1.2
3/15/2017						330			
3/17/2017									
4/11/2017									
4/24/2017	3.4	2.2							
4/25/2017			1.9	1.3	1.6	330	1.8	1.8	1.2
4/26/2017									
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	3.6	2.3	2	1.4	1.7		1.9		
8/9/2017						330		1.4	1.2
8/10/2017									
10/10/2017	3.6	2.5							
10/11/2017			1.9	1.3	1.6	320	1.8	1.5	1.2
10/12/2017									
6/13/2018	3.8		2	1.4					
6/14/2018		2.3			1.6	290	1.7	1.5	1.2
9/24/2018		2.4							
9/27/2018	4								
9/28/2018			2.1						
10/2/2018				1.4					
10/3/2018					1.6		1.8		1.2
10/4/2018						290		1.5	
4/1/2019	4	2.4							
4/2/2019			2.6	1.5	1.7		1.9		1.2
4/3/2019									
4/4/2019						170		1.4	
9/16/2019	4			1.5					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-15	WGWA-5 (bg)	WGWC-8	WGWC-13	WGWC-12	WGWC-9	WGWC-11	WGWC-19
5/17/2016									
5/18/2016	1.45	4.59	2.14						
5/19/2016				17.5	2.26	3.8	1.46	3.21	
7/19/2016		5.9	2.4						
7/20/2016	1.6			19	1.9	3.8	1.5	3.4	
9/13/2016									
9/14/2016	1.5	7.9	2.1		1.6	3.7	1.4	3.1	
9/15/2016				19					
11/9/2016									
11/10/2016		6.5			1.4				
11/11/2016	1.5					3.5		3.2	2.6
11/14/2016				25					
1/17/2017									
1/18/2017									
1/19/2017			1.8						
1/20/2017									
1/24/2017		4.1							
1/27/2017					1.4	3.1		3.4	
2/6/2017	1.4			33					2.6
2/8/2017									
2/9/2017							1.5		
2/23/2017									
3/13/2017									
3/14/2017		4.4	2						
3/15/2017	1.4			38	1.4	3.2	1.3	3.1	2.4
3/17/2017									
4/11/2017							1.2		2.3
4/24/2017									
4/25/2017		4	1.8						
4/26/2017	1.3			42	1.3	3.2	1.2	3.1	2.3
5/17/2017									
6/7/2017									2.5
7/11/2017									2.3
8/8/2017									
8/9/2017		3.6	1.9		1.4				
8/10/2017	1.4			48		3.4	1.3	3.1	2.5
10/10/2017									
10/11/2017		5	2.1						
10/12/2017	1.3			60	1.2	3.1	1.4	3	2.3
6/13/2018			1.7						
6/14/2018	1.3	4.3		58	1.2	3	1.2	3	2.4
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018		4.8	1.8						
10/4/2018	1.3			300	1.2	3.1	1.2	3.1	2.6
4/1/2019									
4/2/2019			1.7						2.5
4/3/2019				70	1.2	3	2	3.3	
4/4/2019	1.4	3.7							
9/16/2019			1.8						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-15	WGWA-5 (bg)	WGWC-8	WGWC-13	WGWC-12	WGWC-9	WGWC-11	WGWC-19
9/17/2019									
9/18/2019		3.2			1.2				2.7
9/19/2019	1.5			70		3.2	1.5	3.2	
3/16/2020									
3/17/2020			1.6						
3/18/2020	1.5	1.7				3.2		3.2	
3/19/2020				98	1.3		2.1		
5/4/2020									2.8
9/21/2020									
9/22/2020			1.5	100					
9/23/2020	1.3	1.5				2.8	2.4		2.6
9/24/2020					1.6			1	
3/10/2021			1.8						
3/11/2021	1.7			110	1.2				2.9
3/12/2021		1.6				3.5	3.4	3.6	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/11/2021 1:04 PM 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 5/11/2021 1:04 PM 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
3/10/2021	
3/11/2021	2.6
3/12/2021	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/11/2021 1:04 PM 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	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)	0.121 (J)
5/19/2016									
7/19/2016	<0.1	<0.1	0.21		<0.1	0.97	0.11 (J)	0.14 (J)	
7/20/2016				0.23					0.16 (J)
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)	0.19 (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)	0.15 (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)						
1/20/2017									0.18 (J)
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		0.11 (J)
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)	0.13 (J)
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)	0.19 (J)
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	0.14 (J)
10/12/2017				0.14 (J)					
3/27/2018	<0.1	<0.1							
3/28/2018			0.11 (J)		<0.1		0.088 (J)		
3/29/2018								0.13 (J)	
3/30/2018				0.13 (J)		0.79			0.095 (J)
6/13/2018	<0.1		0.085 (J)				0.093 (J)		
6/14/2018		<0.1		0.15 (J)	<0.1	0.79		<0.1	0.11 (J)
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			
10/4/2018				0.18 (J)				0.85 (J)	0.11 (J)
2/25/2019	<0.1	0.032 (J)							

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/11/2021 1:04 PM 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
2/26/2019			0.23		<0.1		0.074 (J)		0.068 (J)
2/27/2019				0.21		0.81		0.47	
2/28/2019									
4/1/2019	<0.1	0.061 (J)							
4/2/2019			0.21		<0.1		0.09 (J)		
4/3/2019									
4/4/2019				0.13 (J)		0.78		0.08 (J)	0.087 (J)
9/16/2019	0.03 (J)						0.1 (J)		
9/17/2019		0.061 (J)	0.079 (J)						
9/18/2019					0.027 (J)	0.81		0.058 (J)	0.066 (J)
9/19/2019				0.13 (J)					
2/3/2020	0.032 (J)	0.061 (J)							
2/4/2020							0.13		
2/5/2020			0.12	0.14	0.026 (J)				
2/7/2020						0.79		0.072 (J)	0.079 (J)
3/16/2020	0.042 (J)	0.052 (J)							
3/17/2020			<0.1		0.044 (J)		0.037 (J)		
3/18/2020				0.052 (J)		0.71		0.084 (J)	<0.1
3/19/2020									
5/4/2020									
9/21/2020		0.037 (J)							
9/22/2020	<0.1		0.1		<0.1		0.068 (J)		
9/23/2020				0.09 (J)		0.63		0.049 (J)	0.05 (J)
9/24/2020									
2/2/2021	0.028 (J)	0.065 (J)	0.071 (J)		<0.1				
2/3/2021							0.088 (J)		
2/4/2021				0.12		0.69		0.052 (J)	0.064 (J)
3/10/2021		0.045 (J)	0.046 (J)		<0.1				
3/11/2021	<0.1			0.15			0.092 (J)	0.061 (J)	0.05 (J)
3/12/2021						0.88			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWA-5 (bg)	WGWC-13	WGWC-12	WGWC-11	WGWC-8	WGWC-9	WGWC-19
2/26/2019	0.14 (J)	<0.1	<0.1						
2/27/2019				0.25	0.06 (J)	0.047 (J)	0.054 (J)		
2/28/2019								1.4	0.28
4/1/2019									
4/2/2019	0.14 (J)	0.039 (J)	<0.1						0.33
4/3/2019				0.24	0.084 (J)	0.048 (J)	0.5	1.3	
4/4/2019									
9/16/2019			<0.1						
9/17/2019	0.14 (J)								
9/18/2019		0.033 (J)		0.22					0.32
9/19/2019					0.093 (J)	0.037 (J)	0.42	1.3	
2/3/2020									
2/4/2020	0.13	0.031 (J)	<0.1						
2/5/2020				0.2	0.098 (J)	0.045 (J)		1.3	
2/7/2020							0.25		0.35
3/16/2020									
3/17/2020	0.11	0.04 (J)	<0.1						
3/18/2020					0.033 (J)	<0.1			
3/19/2020				0.15			0.057 (J)	1	
5/4/2020									0.36
9/21/2020	0.091 (J)	<0.1							
9/22/2020			<0.1				0.14		
9/23/2020					0.064 (J)			0.82	0.25
9/24/2020				<0.1		0.18			
2/2/2021	0.15	0.035 (J)							
2/3/2021			<0.1		0.082 (J)	0.027 (J)	0.15		0.3
2/4/2021				0.16				0.91	
3/10/2021	0.12	<0.1	<0.1						
3/11/2021				0.18			0.16		0.31
3/12/2021					0.096 (J)	0.044 (J)		0.98	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/11/2021 1:04 PM 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 5/11/2021 1:04 PM 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)
2/2/2021	
2/3/2021	
2/4/2021	0.033 (J)
3/10/2021	
3/11/2021	0.04 (J)
3/12/2021	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/11/2021 1:04 PM 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	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 5/11/2021 1:04 PM 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)
10/4/2018				6.4				5.28	
2/25/2019	5.25	6.02							
2/26/2019			7.66		5.62		7.87		5.21
2/27/2019				6.23		7.4		5.08	
2/28/2019									
4/1/2019	5.31	6.09							
4/2/2019			7.53		5.6		7.94		5.25
4/3/2019									
4/4/2019				6.46		7.58		5.19	
9/16/2019	5.28						7.55		6.94
9/17/2019		6.25	6.47						
9/18/2019					5.6	7.8		5.19	
9/19/2019				6.45					
2/3/2020	5.4	6.09							
2/4/2020							7.74		5.31
2/5/2020			6.73	6.42	5.54				
2/7/2020						7.66		5.17	
3/16/2020	5.29	6.01							
3/17/2020			6.36		5.32		7.96		5.34
3/18/2020				6.4		7.73		5.08	
3/19/2020									
5/4/2020									
9/21/2020		6.05							
9/22/2020	5.09		7.18		5.36		7.4		6.78
9/23/2020				6.14		7.35		5.05	
9/24/2020									
2/2/2021	5.36	6.1	6.48		5.84				
2/3/2021							7.76		5.3
2/4/2021				6.21		7.77		5.42	
3/10/2021		6.11	5.8		4.96				5.22
3/11/2021	5.26			6.56			7.93	5.21	
3/12/2021						7.72			

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/11/2021 1:04 PM 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
5/17/2016									
5/18/2016	6.41	7.23	5.55						
5/19/2016				5.93	6.85	5.99	6.31	6.91	
7/18/2016				5.9661					
7/19/2016									
7/20/2016	6.662463	7.281557	5.656628		6.705264	6.194334	6.345061	6.962608	
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	5.99	6.3	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	6.03	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	6.47	6.67			6.55				
8/10/2017				6.05		5.59	5.86	6.7	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	6.09	6.89	6.7
3/27/2018									
3/28/2018		6.79	5.6						
3/29/2018				6.85	6.99	5.43	5.89	7.08	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	6.47	6.73	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 5/11/2021 1:04 PM 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
10/4/2018	6.14			5.81	6.5	5.39	6.17	6.79	6.67
2/25/2019									
2/26/2019	6.17	6.74	5.6						
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						6.75
4/3/2019				6.07	6.47	5.55	6.1	6.91	
4/4/2019	6.16								
9/16/2019									
9/17/2019		6.93							
9/18/2019	6.17		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						
2/5/2020				5.89	6.44		6.54	6.76	
2/7/2020	6.34					5.38			7.08
3/16/2020									
3/17/2020		6.83	5.61						
3/18/2020	6.28			5.89				6.94	
3/19/2020					6.56	6.43	6.64		
5/4/2020									6.9
9/21/2020		6.81	5.35						
9/22/2020						5.17			
9/23/2020	5.89						5.8	6.42	6.59
9/24/2020				5.5	6.29				
2/2/2021		6.61	5.78						
2/3/2021				5.21		5.08		6.15	6.75
2/4/2021	6.31				6.34		6.22		
3/10/2021		7.19	5.49						
3/11/2021	5.96				5.95	5.35			7.12
3/12/2021				5.46			5.88	6.66	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/11/2021 1:04 PM 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 5/11/2021 1:04 PM 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
2/2/2021	
2/3/2021	
2/4/2021	5.76
3/10/2021	
3/11/2021	5.1
3/12/2021	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-6 (bg)	WGWA-3 (bg)	WGWC-16	WGWA-7 (bg)	WGWC-17	WGWA-4 (bg)
5/17/2016	<1	1.14	19.9						
5/18/2016				8.88	0.821 (J)	388	0.368 (J)	32.1	5.32
5/19/2016									
7/19/2016	<1	1.4	14	9		460	<1		
7/20/2016					0.82 (J)			9.7	6.5
9/13/2016	<1	1.1	11	8.5	0.81 (J)		<1		5.6
9/14/2016						500		6.6	
9/15/2016									
11/9/2016	<1	1.1	6.3	8.2					
11/10/2016					0.73 (J)	530	<1	5.2	5.4
11/11/2016									
11/14/2016									
1/17/2017	<1	2.1							
1/18/2017				9.4	0.99 (J)		1.4		5.1
1/19/2017			7.4						
1/20/2017								5.3	
1/24/2017						600			
1/27/2017									
2/6/2017									
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<1	0.97 (J)							
3/14/2017			10	2	0.83 (J)		<1	9.6	4.6
3/15/2017						610			
3/17/2017									
4/11/2017									
4/24/2017	<1	0.75 (J)							
4/25/2017			10	8.2	0.7 (J)	620	<1	20	6.6
4/26/2017									
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<1	1.1	12	8.5	0.82 (J)		<1		
8/9/2017						780		6.5	7.3
8/10/2017									
10/10/2017	<1	1.3							
10/11/2017			11	8.3	0.72 (J)	720	<1	13	6.8
10/12/2017									
6/13/2018	<1		8.2	8.3					
6/14/2018		0.84 (J)			<1	620	<1	16	6.9
9/24/2018		0.79 (J)							
9/27/2018	<1								
9/28/2018			7.6						
10/2/2018				8.3					
10/3/2018					0.73 (J)		<1		7
10/4/2018						560		15	
4/1/2019	<1	1							
4/2/2019			11	8.5	1.1		0.4 (J)		8.1
4/3/2019									
4/4/2019						250		9.1	
9/16/2019	0.49 (J)			8.9					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-15	WGWA-5 (bg)	WGWC-8	WGWC-13	WGWC-12	WGWC-9	WGWC-11	WGWC-19
5/17/2016									
5/18/2016	2.84	50.7	0.955 (J)						
5/19/2016				146	19.2	15.8	35.9	1.83	
7/19/2016		62	0.76 (J)						
7/20/2016	2.8			150	11	16	37	1.6	
9/13/2016									
9/14/2016	2.8	79	3.4		8.6	16	39	1.5	
9/15/2016				140					
11/9/2016									
11/10/2016		61			5.7				
11/11/2016	2.6					14		1.4	3.4
11/14/2016				160					
1/17/2017									
1/18/2017									
1/19/2017			21						
1/20/2017									
1/24/2017		34							
1/27/2017					6.8	15		2.5	
2/6/2017	2.7			180					3.7
2/8/2017									
2/9/2017							60		
2/23/2017									
3/13/2017									
3/14/2017		43	1.4						
3/15/2017	2.7			170	11	17	44	2.5	3.6
3/17/2017									
4/11/2017							36		3.2
4/24/2017									
4/25/2017		39	0.89 (J)						
4/26/2017	2.5			180	8.1	15	37	2.2	3.3
5/17/2017									
6/7/2017									3.8
7/11/2017									3.3
8/8/2017									
8/9/2017		35	0.75 (J)		8.1				
8/10/2017	2.2			180		16	38	2.3	3.7
10/10/2017									
10/11/2017		48	<1						
10/12/2017	1.9			180	6.1	14	37	1.9	3.6
6/13/2018			<1						
6/14/2018	2	44		170	5	14	37	1.7	3.5
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018		49	<1						
10/4/2018	1.9			780	4.3	14	38	1.6	4.6
4/1/2019									
4/2/2019			0.94 (J)						3.8
4/3/2019				180	3.8	13	41	1.9	
4/4/2019	2.2	41							
9/16/2019			2.2						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-15	WGWA-5 (bg)	WGWC-8	WGWC-13	WGWC-12	WGWC-9	WGWC-11	WGWC-19
9/17/2019									
9/18/2019		37			3.9				3.6
9/19/2019	2.1			190		14	42	1.3	
3/16/2020									
3/17/2020			4						
3/18/2020	2.1	17				12		1.6	
3/19/2020				200	4		45		
5/4/2020									4.5
9/21/2020									
9/22/2020			1.5	200					
9/23/2020	1.8	21				12	54		3
9/24/2020					0.63 (J)			2.7	
3/10/2021			<1						
3/11/2021	2.8			220	2.9				4
3/12/2021		19				14	62	2	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/11/2021 1:04 PM 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 5/11/2021 1:04 PM 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
3/10/2021	
3/11/2021	1.7
3/12/2021	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-6 (bg)	WGWA-3 (bg)	WGWC-16	WGWA-7 (bg)	WGWC-17	WGWA-4 (bg)
5/17/2016	<10	100	112						
5/18/2016				113	29	1080	31	107	101
5/19/2016									
7/19/2016	14	84	80	92		1200	<10		
7/20/2016					<10			78	86
9/13/2016	50	70	120	100	12		<10		28
9/14/2016						1300		82	
9/15/2016									
11/9/2016	22	110	76	130					
11/10/2016					30	1400	44	98	110
11/11/2016									
11/14/2016									
1/17/2017	8	120							
1/18/2017				120	22		50		98
1/19/2017			36						
1/20/2017								82	
1/24/2017						1300			
1/27/2017									
2/6/2017									
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<10	58							
3/14/2017			70	110	22		26	120	110
3/15/2017						1500			
3/17/2017									
4/11/2017									
4/24/2017	10	94							
4/25/2017			70	100	22	1700	10	120	86
4/26/2017									
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<10	62	72	90	4 (J)		<10		
8/9/2017						1900		92	92
8/10/2017									
10/10/2017	44	140							
10/11/2017			90	98	10	1900	42	74	110
10/12/2017									
6/13/2018	24		38	110					
6/14/2018		80			26	1500	14	100	92
9/24/2018		76							
9/27/2018	28								
9/28/2018			68						
10/2/2018				130					
10/3/2018					50		6		100
10/4/2018						1700		98	
4/1/2019	<10	63							
4/2/2019			100	110	28		15		100
4/3/2019									
4/4/2019						710		89	
9/16/2019	27			110					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-15	WGWA-5 (bg)	WGWC-8	WGWC-13	WGWC-12	WGWC-9	WGWC-11	WGWC-19
5/17/2016									
5/18/2016	70	190	33						
5/19/2016				311	127	101	134	39	
7/19/2016		180	<10						
7/20/2016	42			290	88	76	120	<10	
9/13/2016									
9/14/2016	40	230	150		92	96	140	24	
9/15/2016				270					
11/9/2016									
11/10/2016		210			100				
11/11/2016	72					100		42	98
11/14/2016				320					
1/17/2017									
1/18/2017									
1/19/2017			34						
1/20/2017									
1/24/2017		140							
1/27/2017					80	50		18	
2/6/2017	24			330					36
2/8/2017									
2/9/2017							180		
2/23/2017									
3/13/2017									
3/14/2017		220	32						
3/15/2017	78			370	100	120	160	54	120
3/17/2017									
4/11/2017							120		68
4/24/2017									
4/25/2017		180	22						
4/26/2017	48			380	92	100	140	42	76
5/17/2017									
6/7/2017									74
7/11/2017									70
8/8/2017									
8/9/2017		180	20		120				
8/10/2017	38			380		96	130	30	66
10/10/2017									
10/11/2017		200	4 (J)						
10/12/2017	72			450	110	100	120	54	100
6/13/2018			<10						
6/14/2018	40	170		410	88	94	120	16	74
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018		260	24						
10/4/2018	60			520	100	110	140	56	100
4/1/2019									
4/2/2019			25						88
4/3/2019				430	72	66	120	<10	
4/4/2019	30	170							
9/16/2019			41						

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/11/2021 1:04 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-15	WGWA-5 (bg)	WGWC-8	WGWC-13	WGWC-12	WGWC-9	WGWC-11	WGWC-19
9/17/2019									
9/18/2019		160			110				96
9/19/2019	52			440		89	130	27	
3/16/2020									
3/17/2020			18						
3/18/2020	58	160				73		26	
3/19/2020				540	95		160		
5/4/2020									110
9/21/2020									
9/22/2020			190	600					
9/23/2020	50	150				90	150		94
9/24/2020					21			60	
3/10/2021			19						
3/11/2021	52			530	63				100
3/12/2021		130				78	130	27	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/11/2021 1:04 PM 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 5/11/2021 1:04 PM 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
3/10/2021	
3/11/2021	24
3/12/2021	

FIGURE E.

Appendix III Trend Tests - Prediction Limits Exceedances - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:08 PM

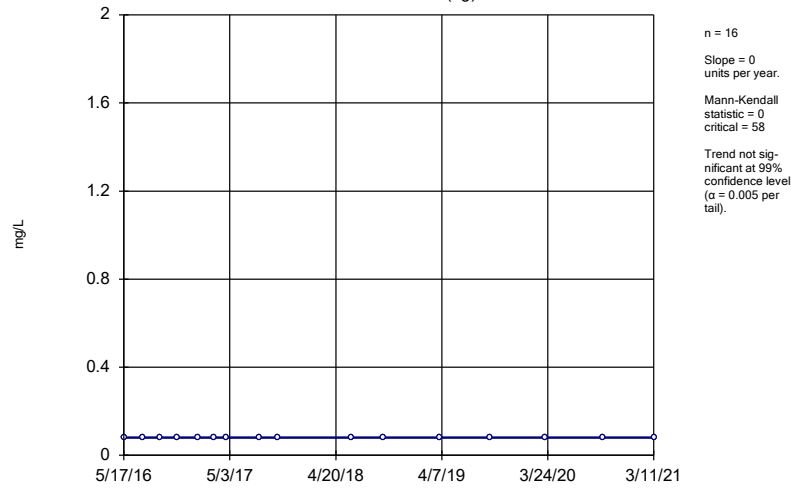
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	WGWC-8	0.199	63	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWC-8	12.18	98	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-5 (bg)	-0.1281	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-8	19.96	106	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-19	-0.01821	-89	-81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-9	-0.1359	-117	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-4 (bg)	0.7157	79	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-8	13.18	84	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-8	61.15	99	58	Yes	16	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:08 PM

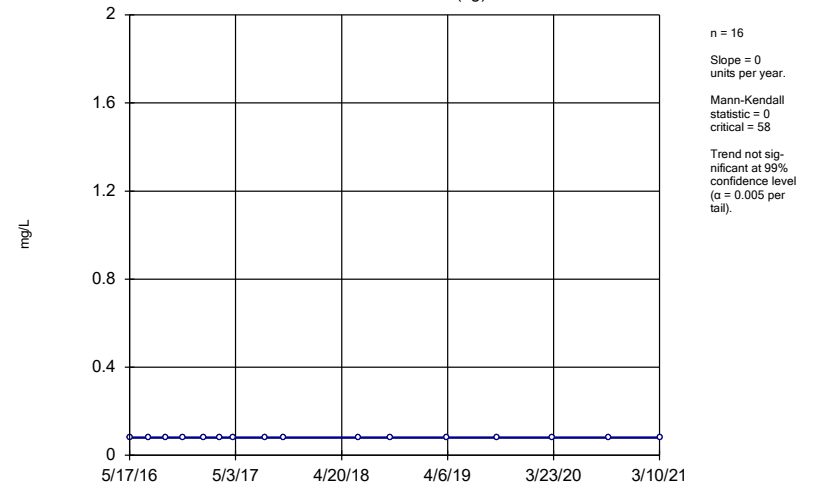
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	WGWA-1 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-18 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-2 (bg)	0	-27	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-3 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-4 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-5 (bg)	0	0	53	No	15	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-6 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWA-7 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-16	-0.8188	-51	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-8	0.199	63	58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	WGWC-9	0.04945	50	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-1 (bg)	0.05215	50	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-18 (bg)	-1.185	-38	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-2 (bg)	-0.5121	-36	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-3 (bg)	0	8	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-4 (bg)	0	-19	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-5 (bg)	-0.07827	-28	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-6 (bg)	0	7	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWA-7 (bg)	-0.09755	-32	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	WGWC-8	12.18	98	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-1 (bg)	0.1237	56	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-18 (bg)	-0.1056	-32	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-2 (bg)	0.03627	27	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-3 (bg)	0	-14	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-4 (bg)	-0.01807	-51	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-5 (bg)	-0.1281	-63	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-6 (bg)	0	-7	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWA-7 (bg)	0	-7	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-16	-35.21	-42	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	WGWC-8	19.96	106	58	Yes	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-1 (bg)	0	-27	-81	No	20	75	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-18 (bg)	-0.01055	-72	-81	No	20	20	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-2 (bg)	-0.01627	-73	-81	No	20	45	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-3 (bg)	0	-33	-81	No	20	70	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-4 (bg)	-0.005875	-62	-81	No	20	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-5 (bg)	0	33	74	No	19	89.47	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-6 (bg)	-0.005996	-75	-81	No	20	10	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWA-7 (bg)	0	-10	-81	No	20	80	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-15	-0.0422	-76	-81	No	20	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-19	-0.01821	-89	-81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	WGWC-9	-0.1359	-117	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-1 (bg)	0	-21	-58	No	16	87.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-18 (bg)	-0.8514	-38	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-2 (bg)	-0.04053	-21	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-3 (bg)	0.01618	14	58	No	16	6.25	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-4 (bg)	0.7157	79	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-5 (bg)	0.02834	15	53	No	15	26.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-6 (bg)	0	-3	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWA-7 (bg)	0	-19	-58	No	16	68.75	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-16	-77.41	-29	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-8	13.18	84	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	WGWC-9	2.074	57	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-1 (bg)	1.837	21	58	No	16	25	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-18 (bg)	-1.093	-5	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-2 (bg)	1.593	8	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-3 (bg)	1.928	11	58	No	16	6.25	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-4 (bg)	0.7703	17	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-5 (bg)	-0.7739	-6	-53	No	15	13.33	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-6 (bg)	2.648	21	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWA-7 (bg)	0.7294	6	58	No	16	18.75	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	WGWC-8	61.15	99	58	Yes	16	0	n/a	n/a	0.01	NP

Sen's Slope Estimator
WGWA-1 (bg)



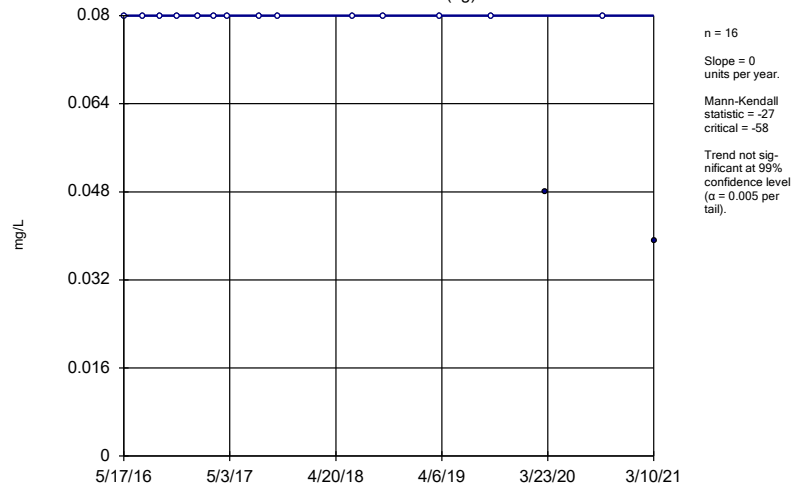
Constituent: Boron Analysis Run 5/11/2021 1:05 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-18 (bg)



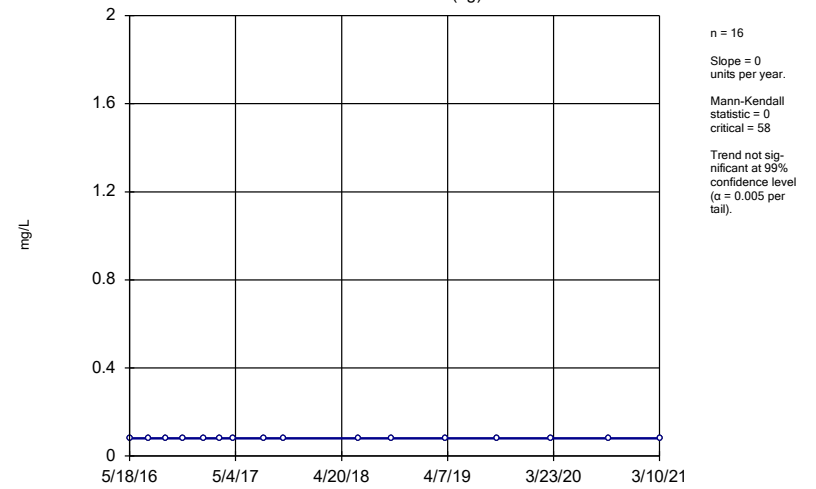
Constituent: Boron Analysis Run 5/11/2021 1:05 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-2 (bg)



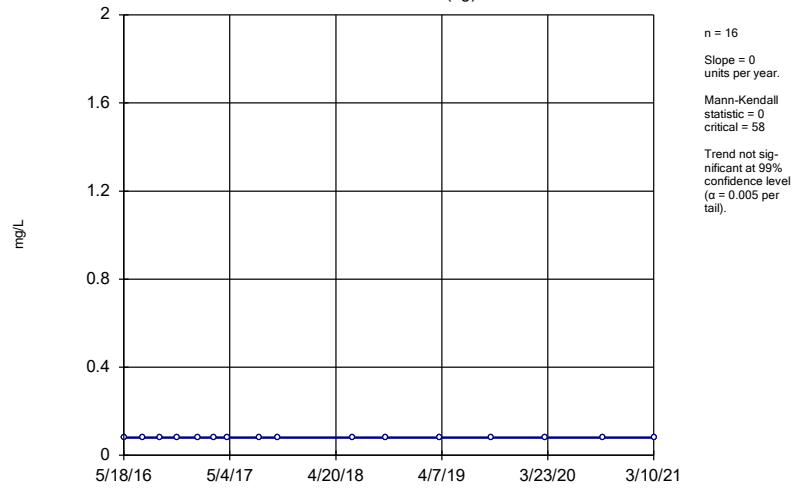
Constituent: Boron Analysis Run 5/11/2021 1:05 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-3 (bg)



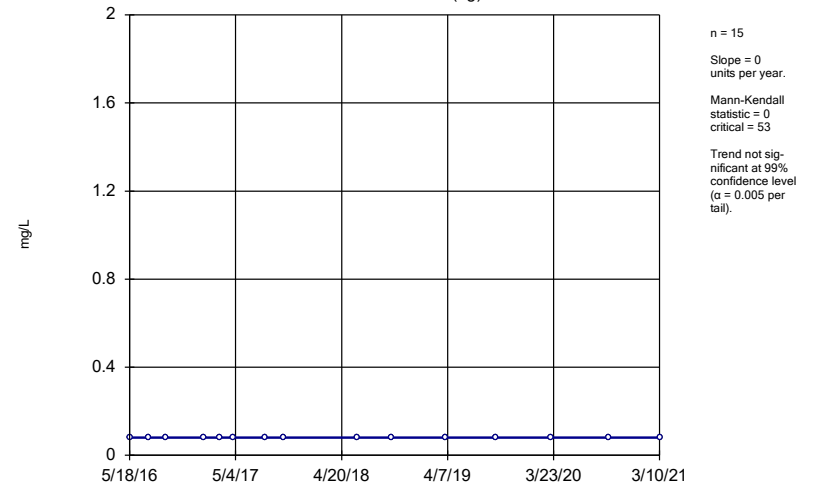
Constituent: Boron Analysis Run 5/11/2021 1:05 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-4 (bg)



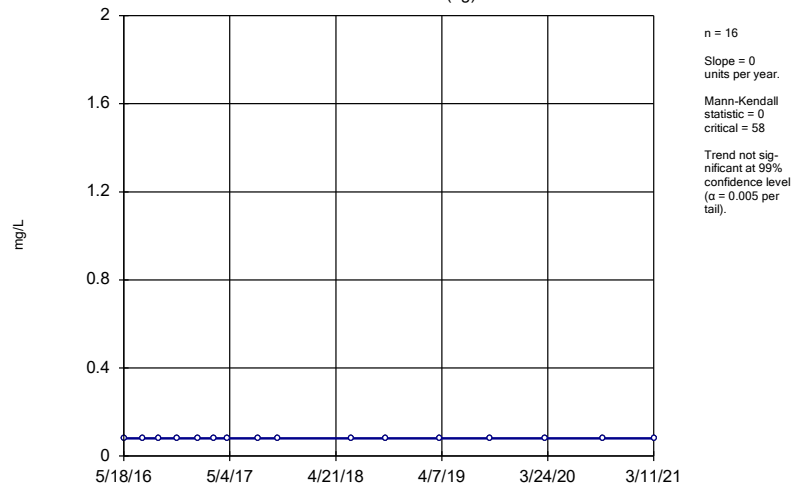
Constituent: Boron Analysis Run 5/11/2021 1:05 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-5 (bg)



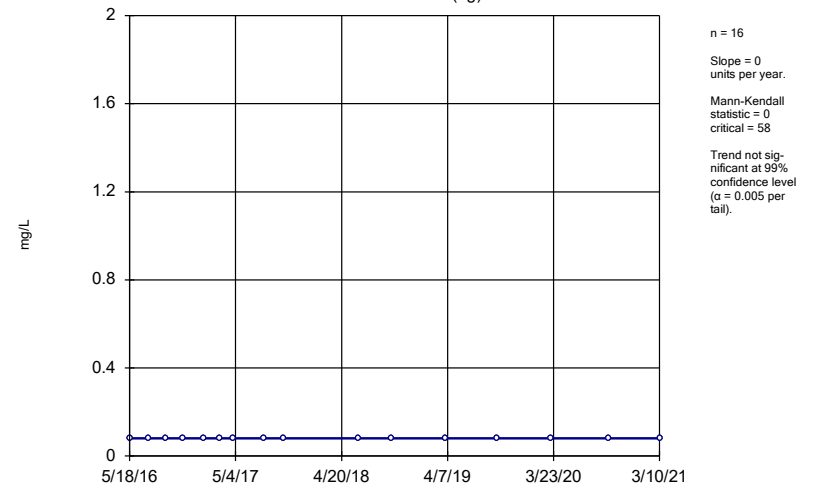
Constituent: Boron Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-6 (bg)



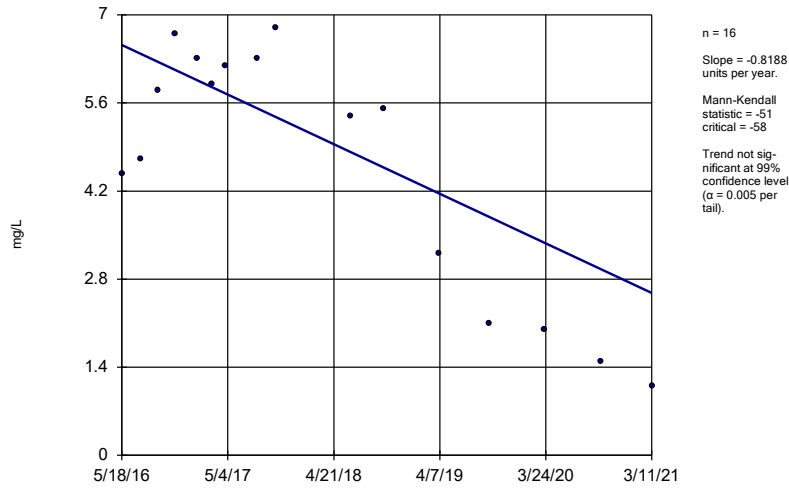
Constituent: Boron Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-7 (bg)



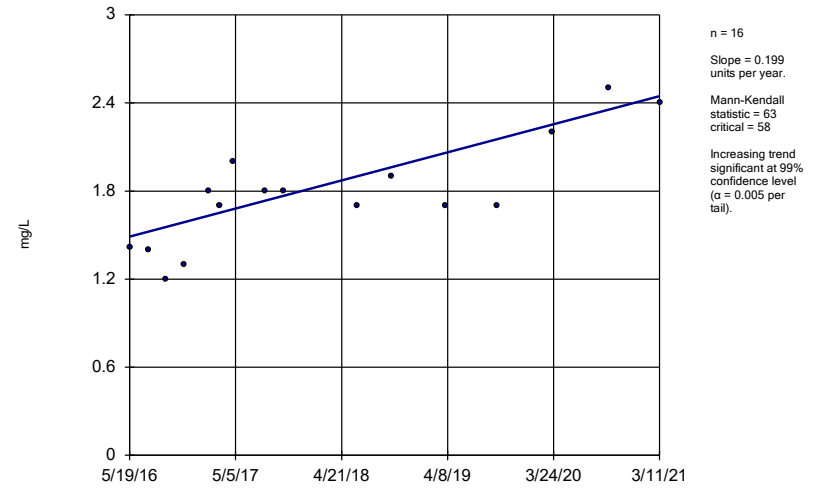
Constituent: Boron Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-16



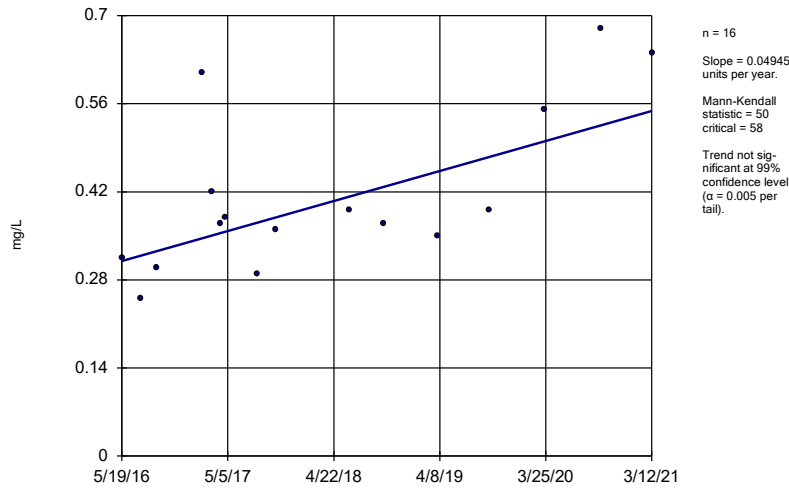
Constituent: Boron Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-8



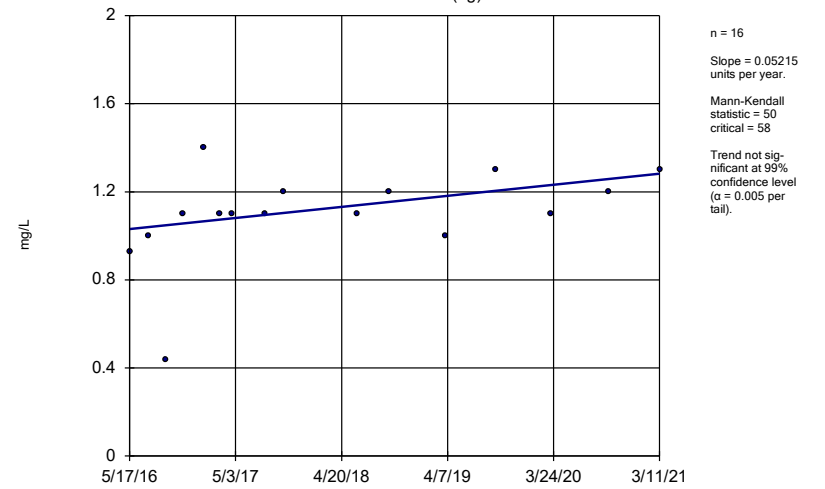
Constituent: Boron Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-9



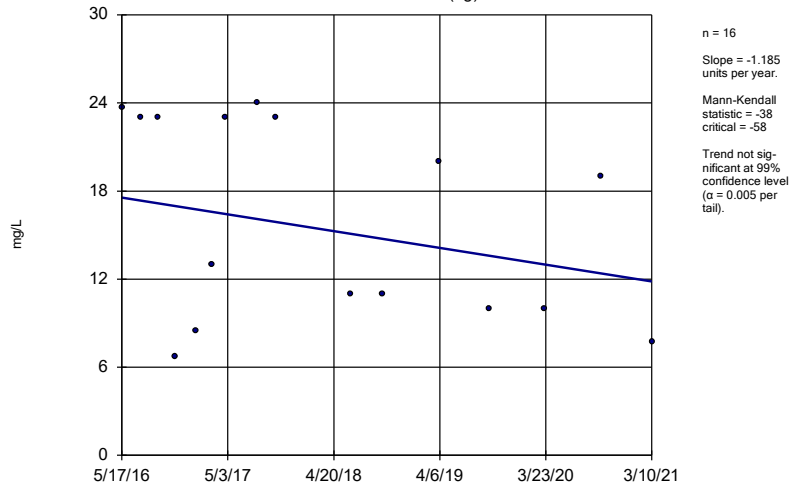
Constituent: Boron Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-1 (bg)



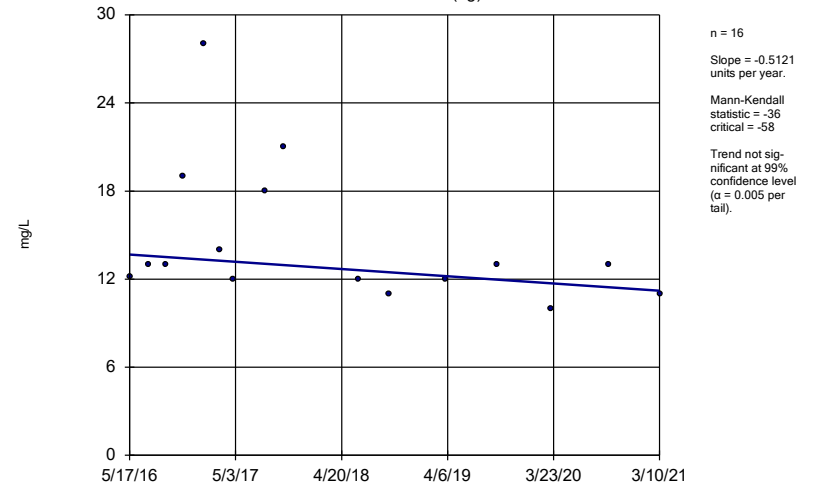
Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-18 (bg)



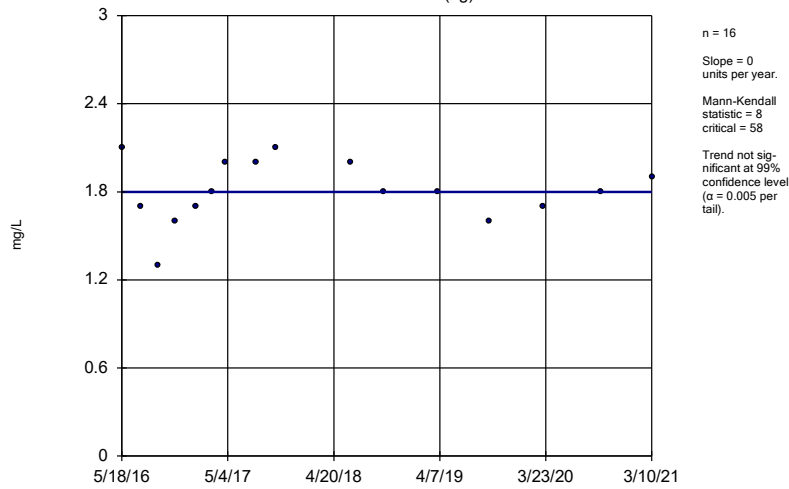
Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-2 (bg)



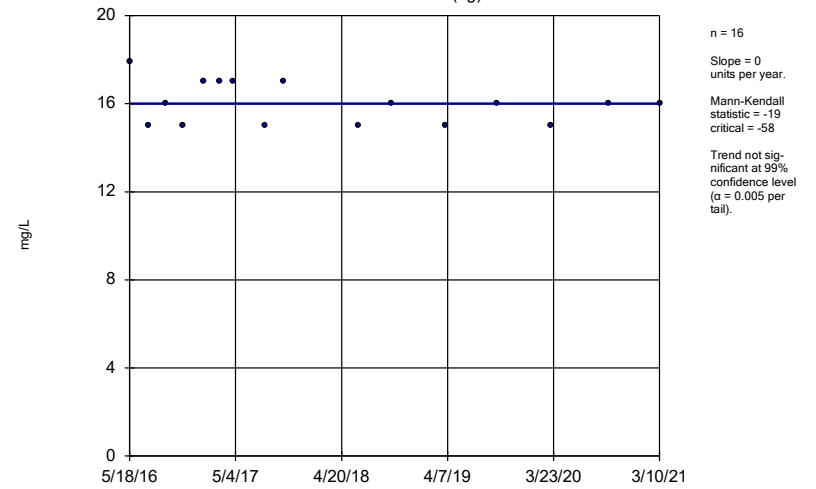
Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-3 (bg)



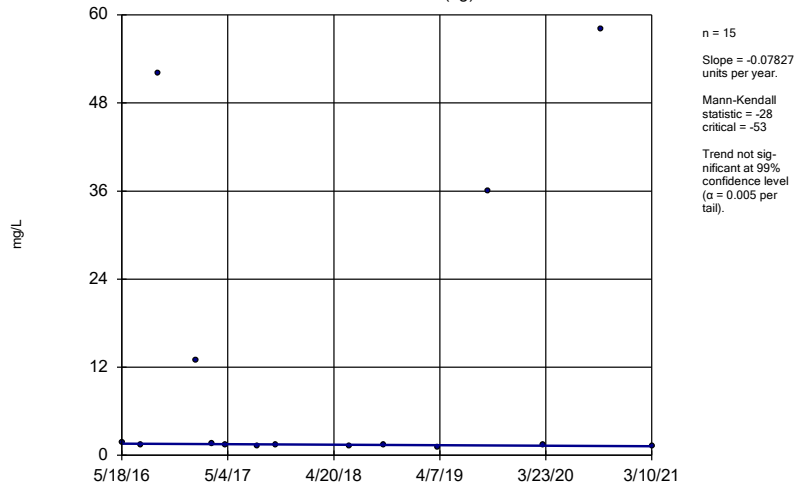
Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-4 (bg)



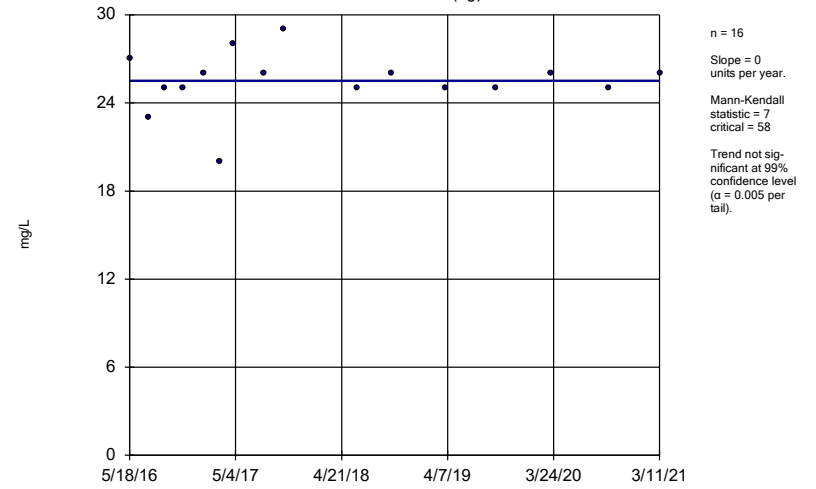
Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-5 (bg)



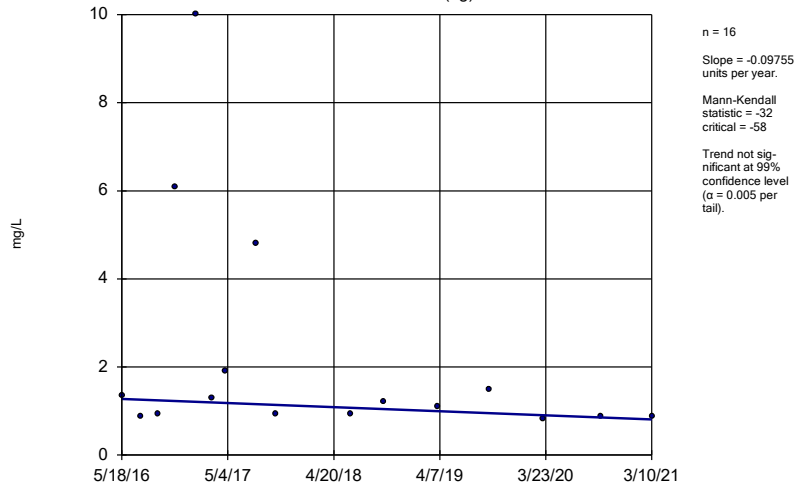
Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-6 (bg)



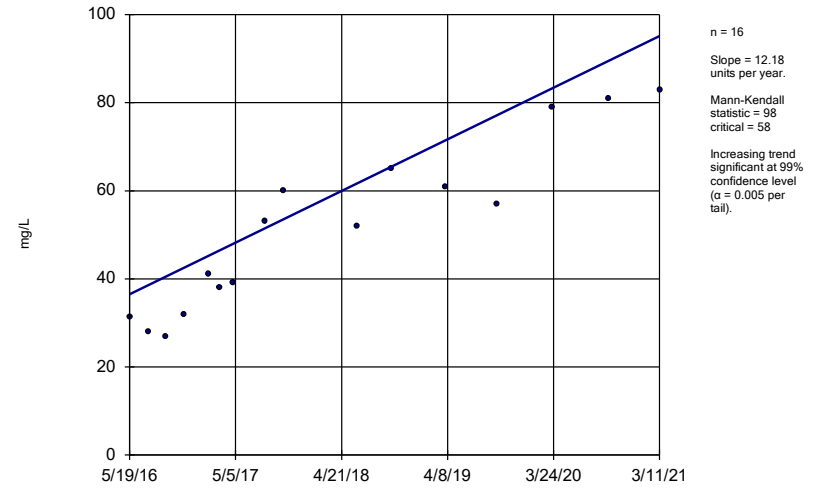
Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-7 (bg)



Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

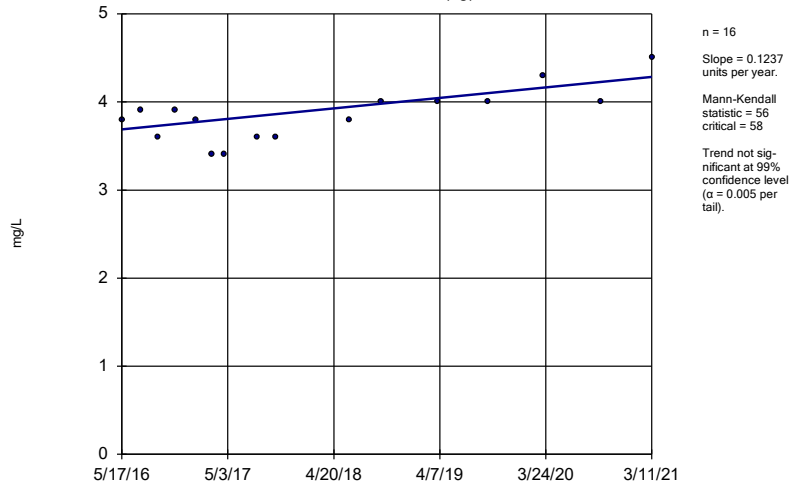
Sen's Slope Estimator
WGWC-8



Constituent: Calcium Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

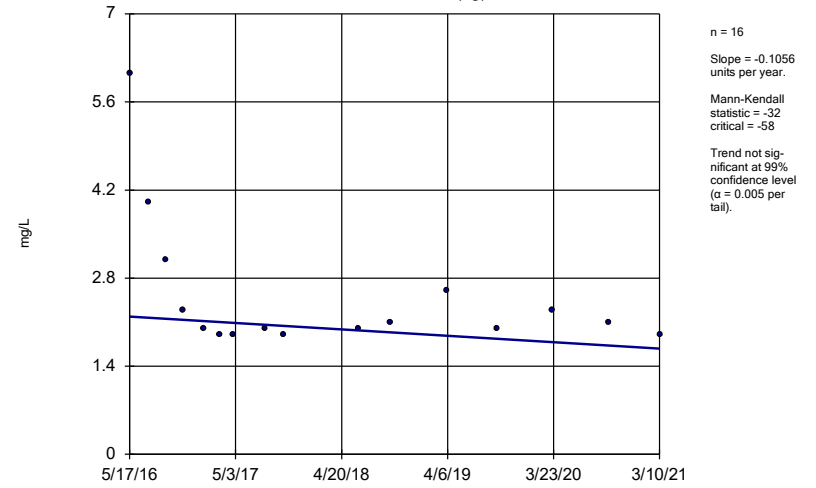
WGWA-1 (bg)



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

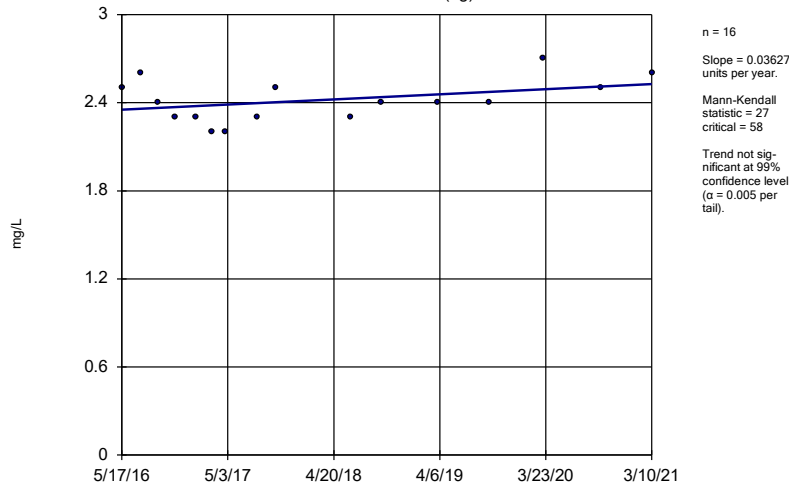
WGWA-18 (bg)



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

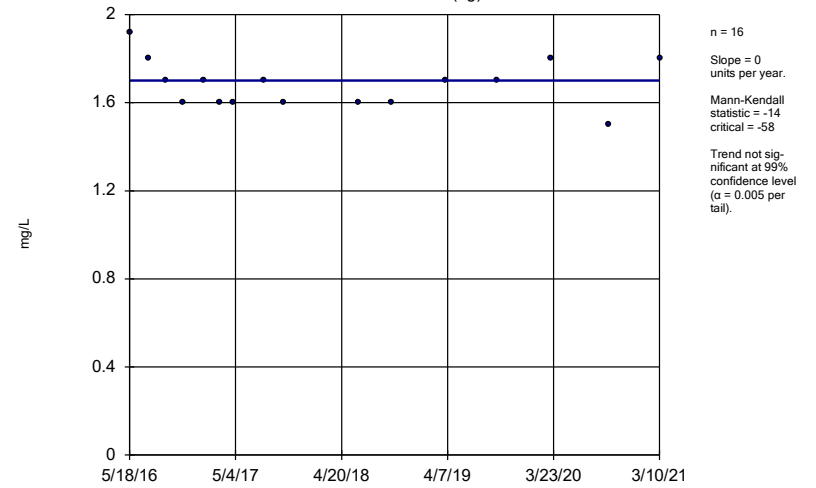
WGWA-2 (bg)



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

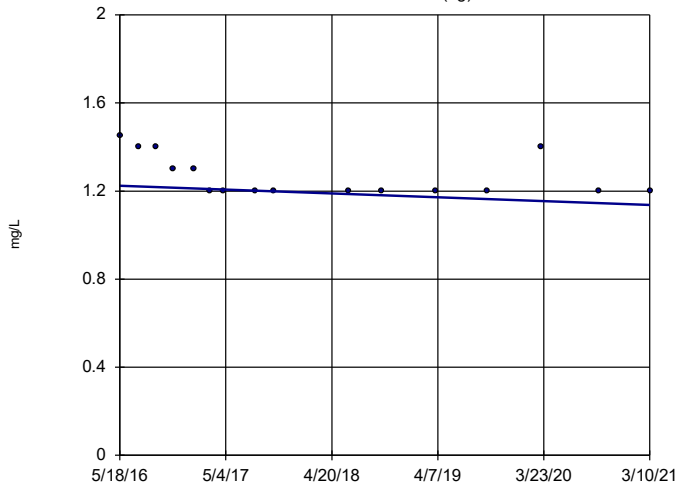
WGWA-3 (bg)



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-4 (bg)

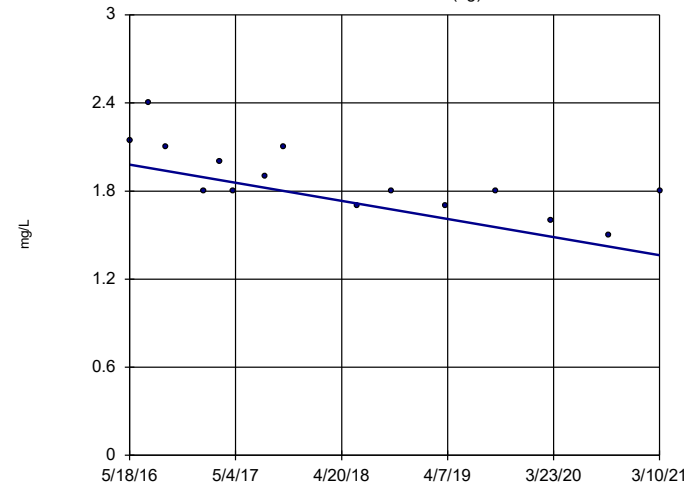


n = 16
 Slope = -0.01807
 units per year.
 Mann-Kendall
 statistic = -51
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-5 (bg)

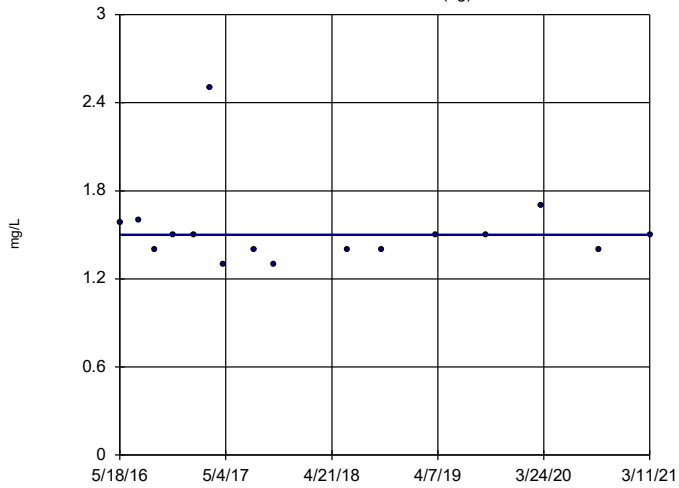


n = 15
 Slope = -0.1281
 units per year.
 Mann-Kendall
 statistic = -63
 critical = -53
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-6 (bg)

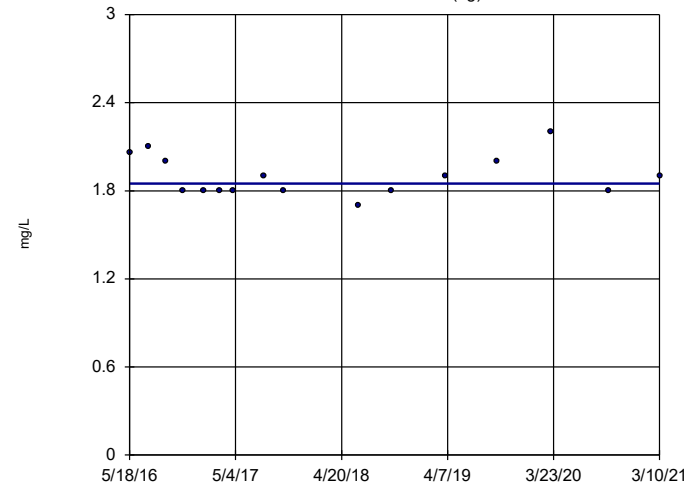


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -7
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-7 (bg)

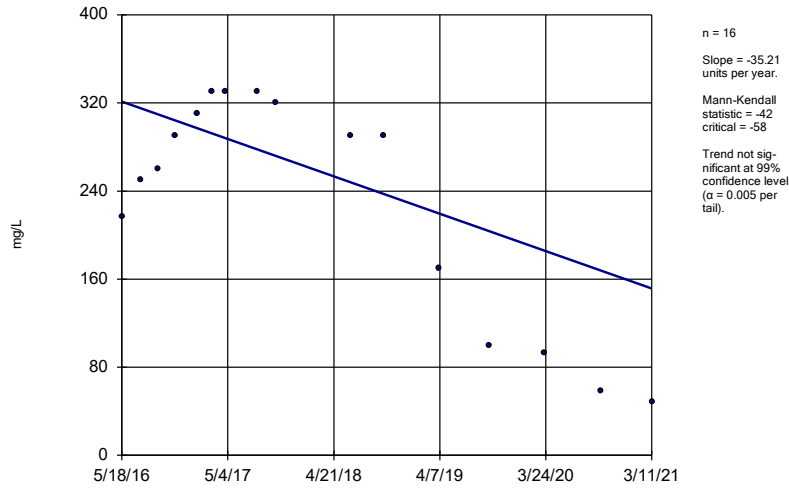


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -7
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

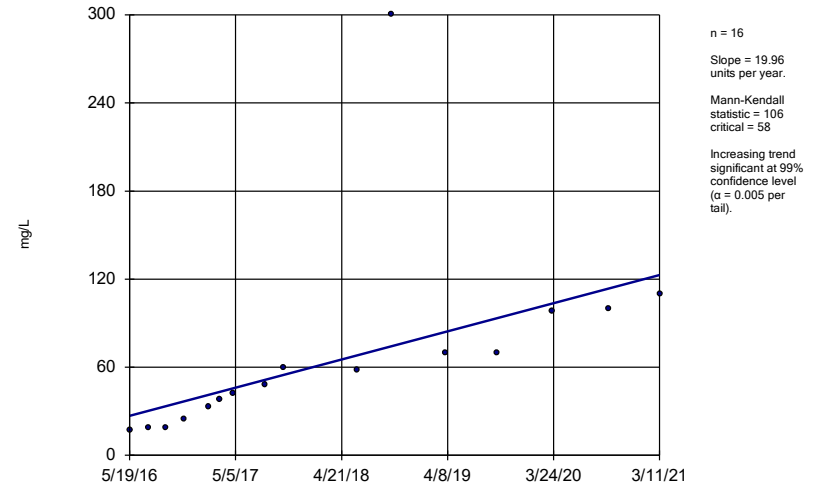
WGWC-16



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

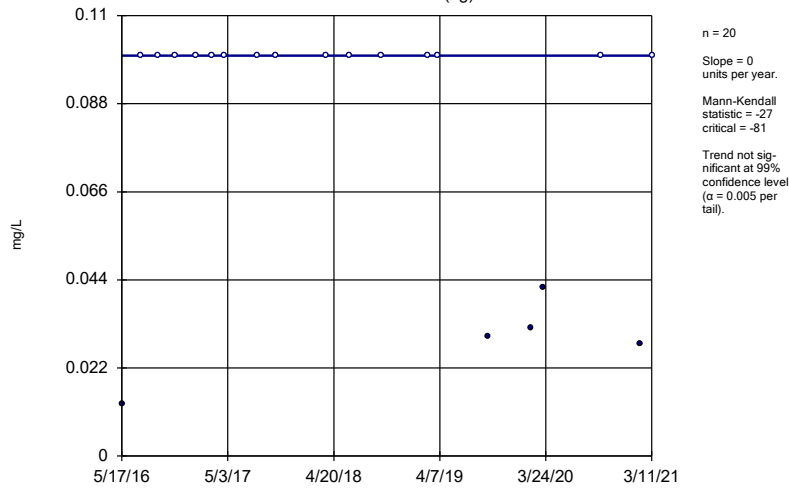
WGWC-8



Constituent: Chloride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

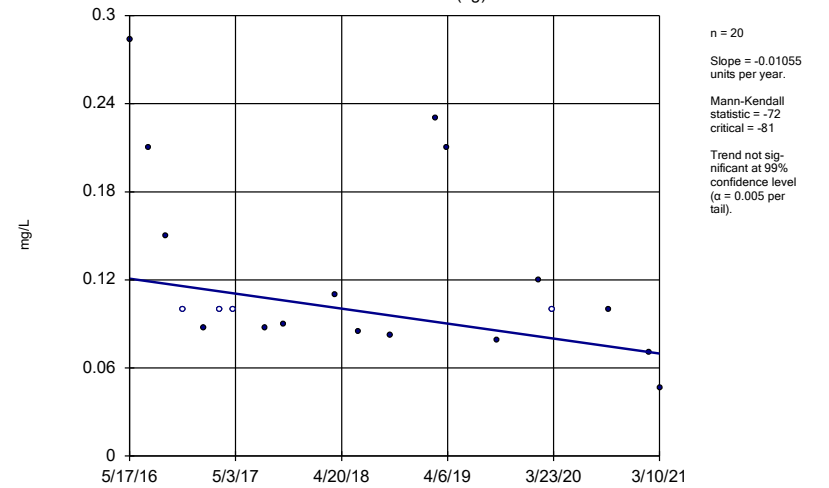
WGWA-1 (bg)



Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

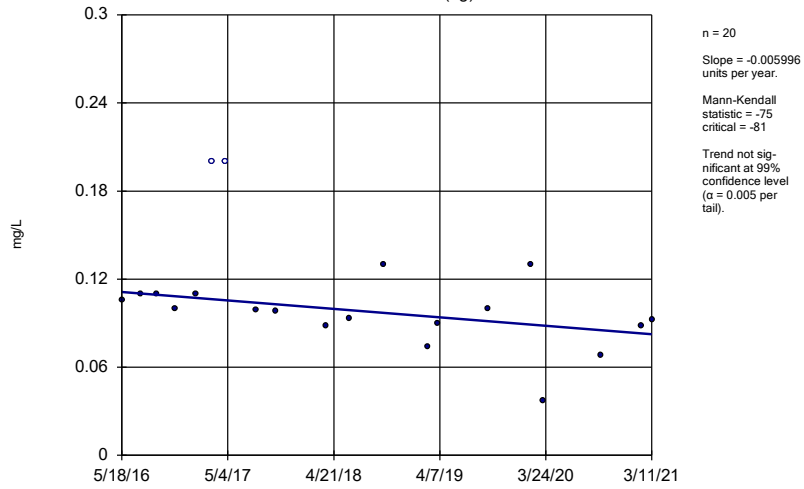
Sen's Slope Estimator

WGWA-18 (bg)



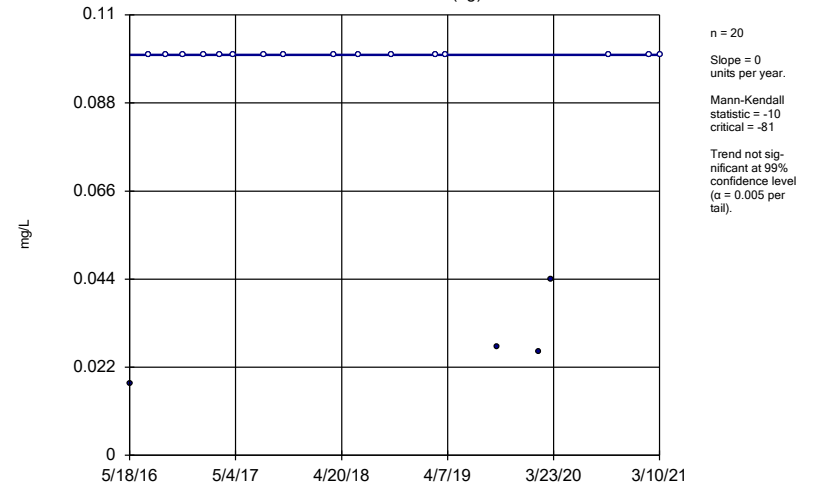
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-6 (bg)



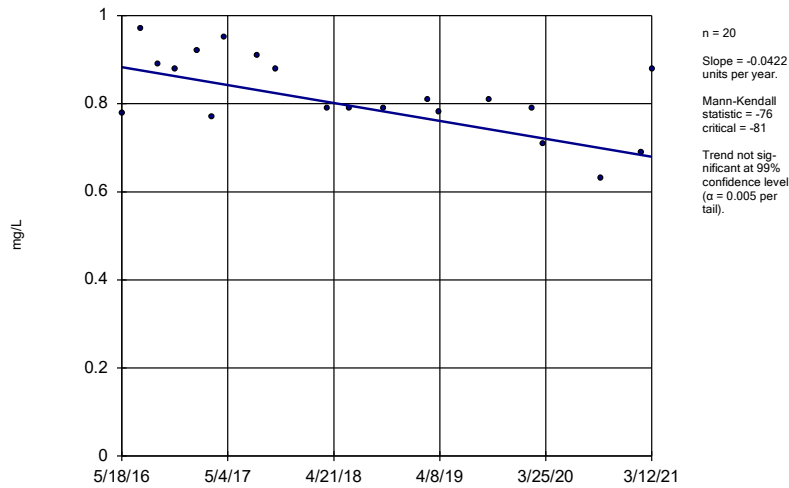
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-7 (bg)



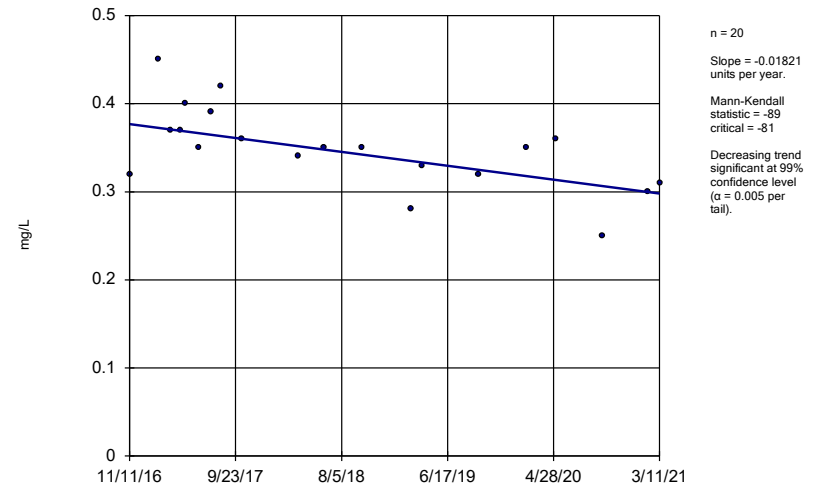
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-15



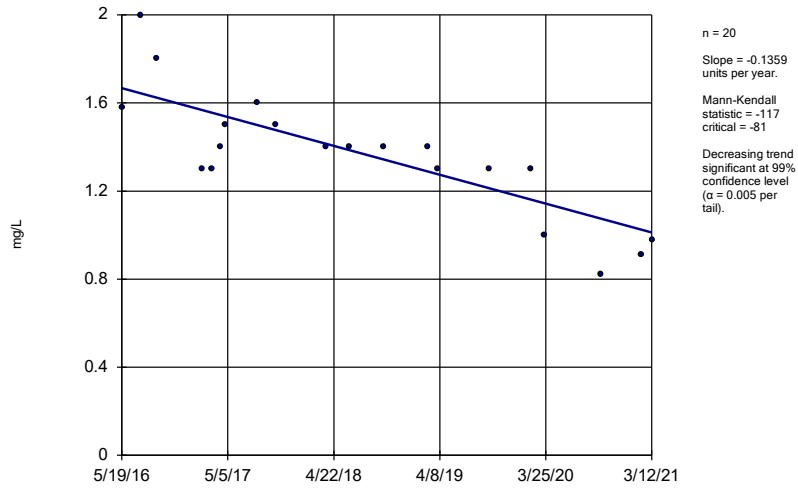
Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-19



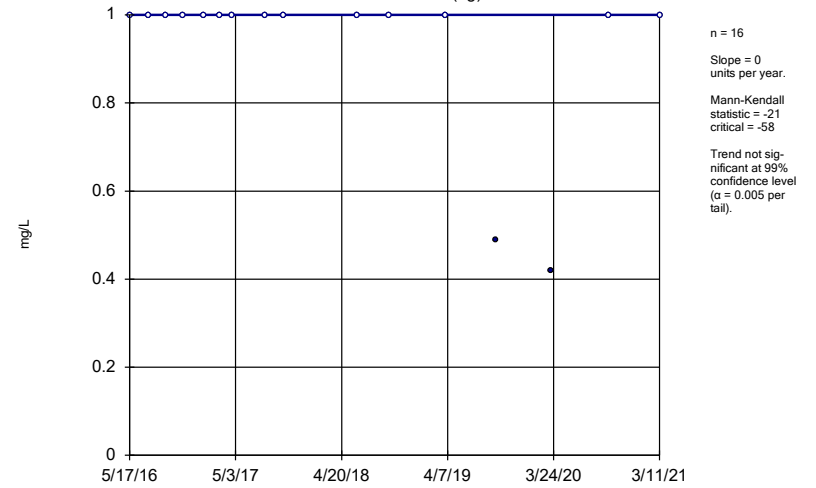
Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-9



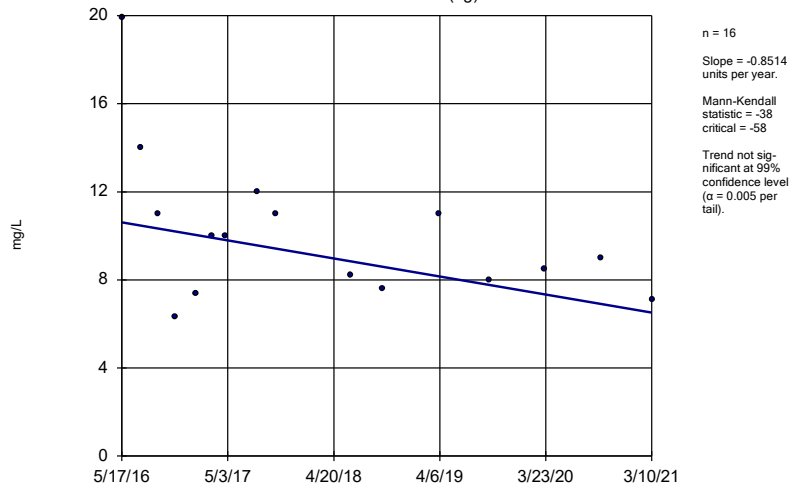
Constituent: Fluoride Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-1 (bg)



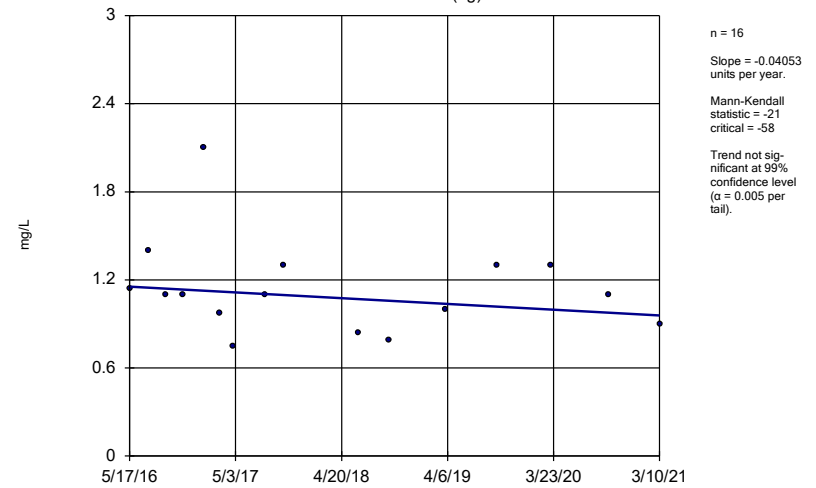
Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-18 (bg)



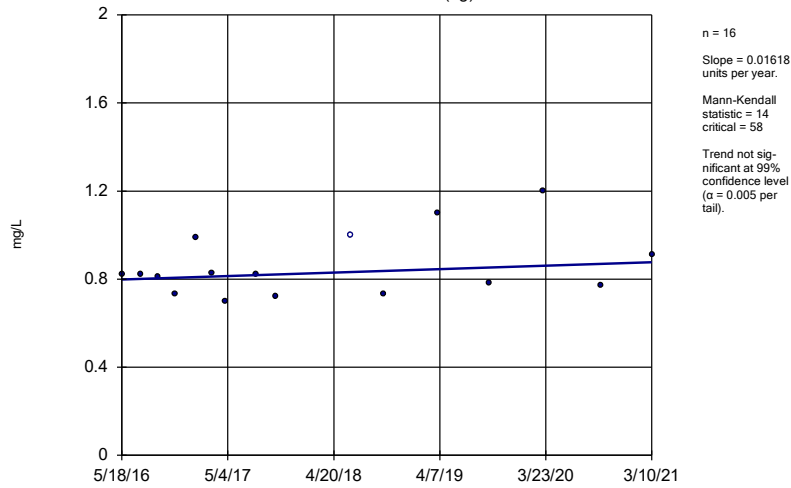
Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-2 (bg)



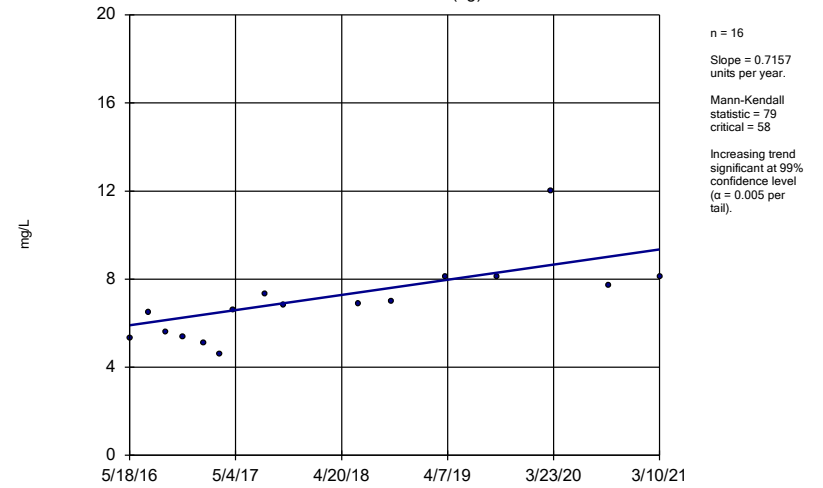
Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-3 (bg)



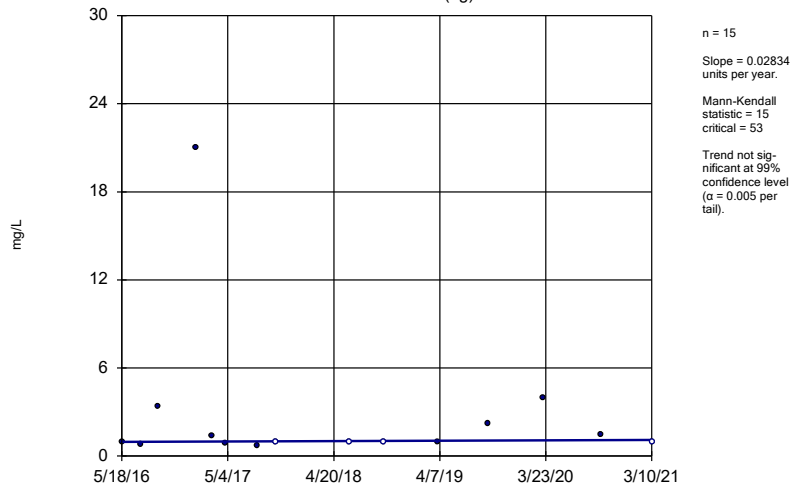
Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-4 (bg)



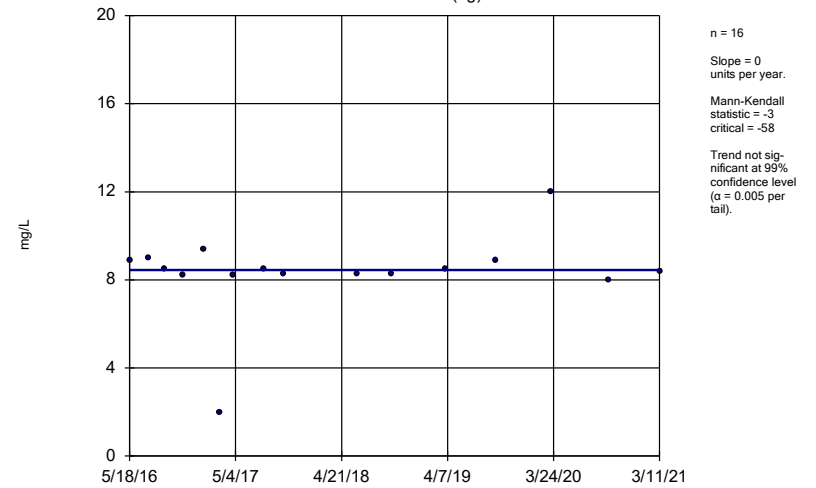
Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-5 (bg)



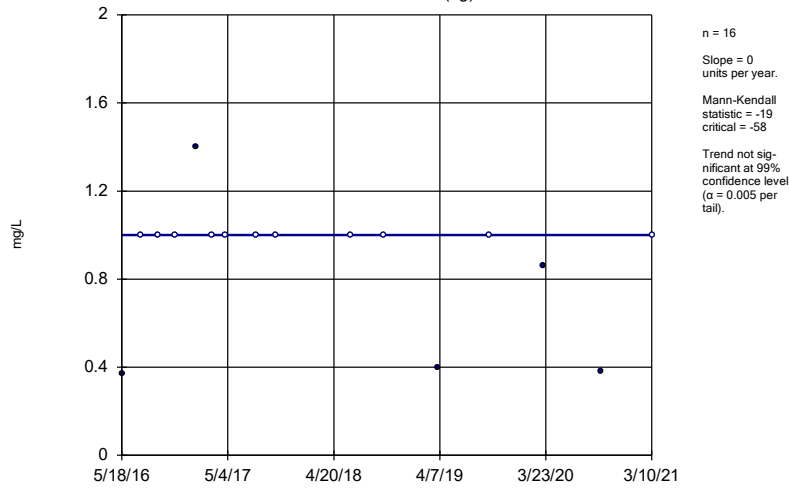
Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-6 (bg)



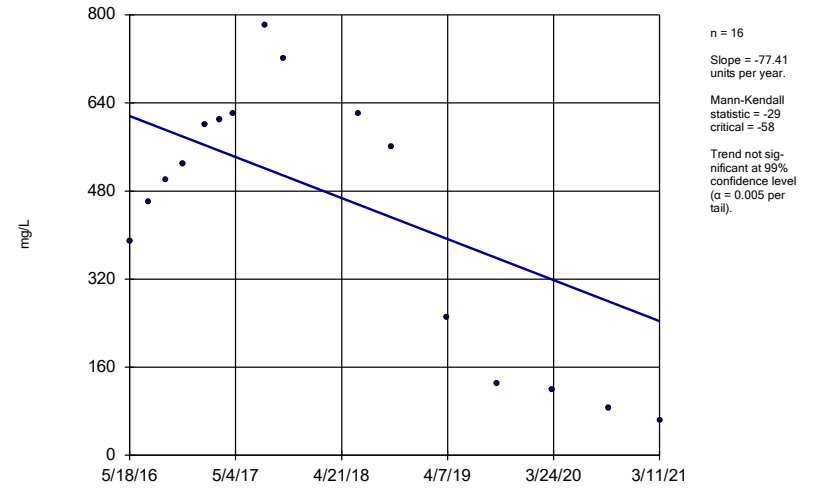
Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-7 (bg)



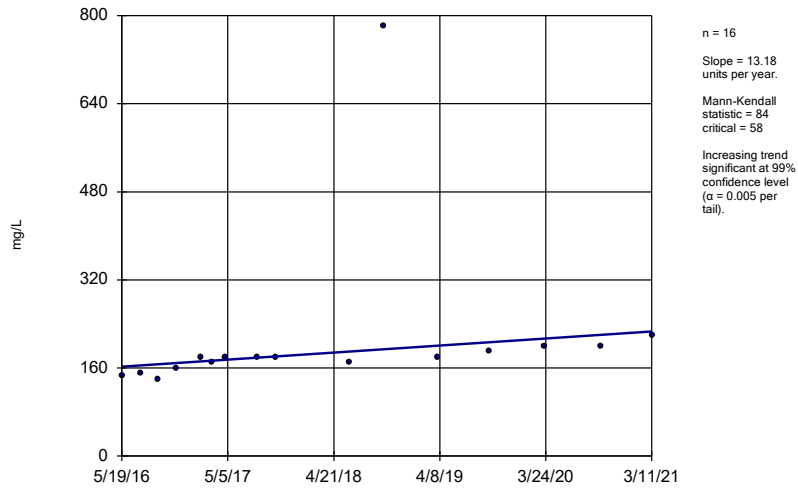
Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-16



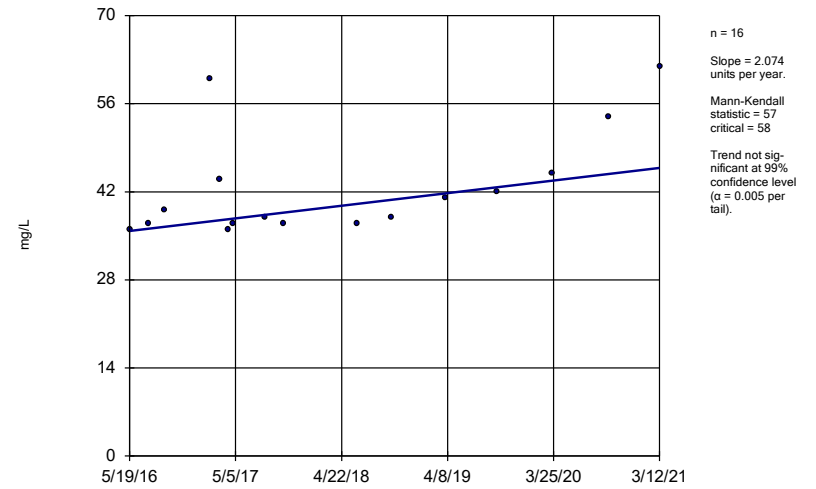
Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-8



Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

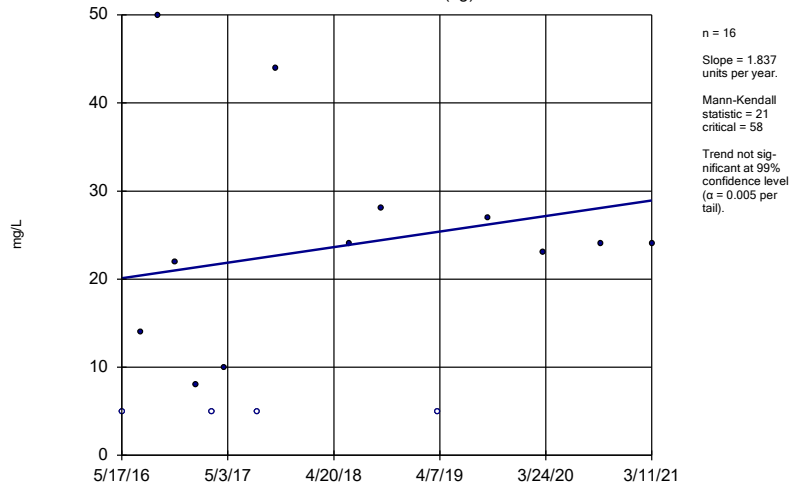
Sen's Slope Estimator
WGWC-9



Constituent: Sulfate Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

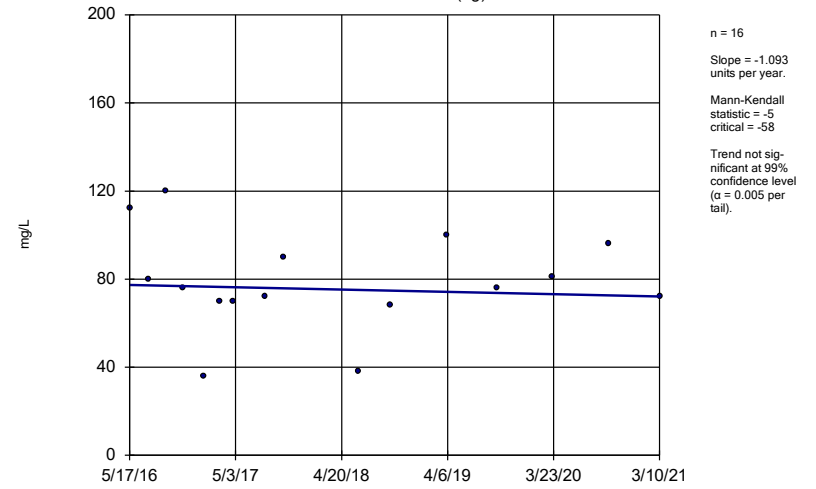
WGWA-1 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

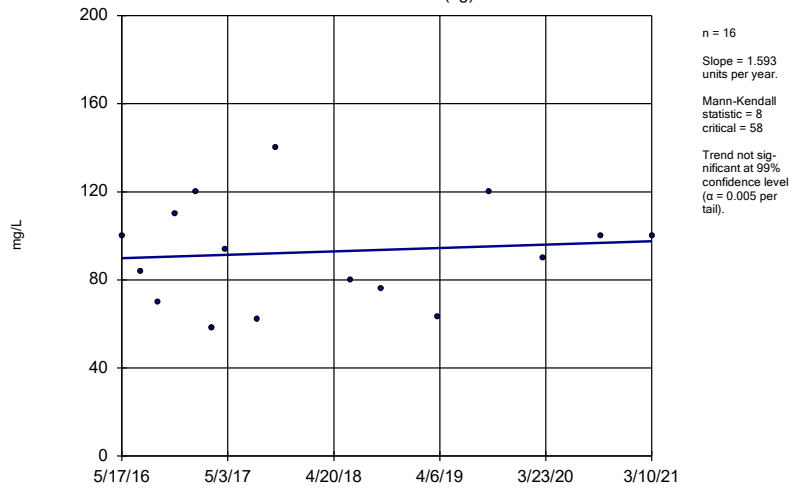
WGWA-18 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

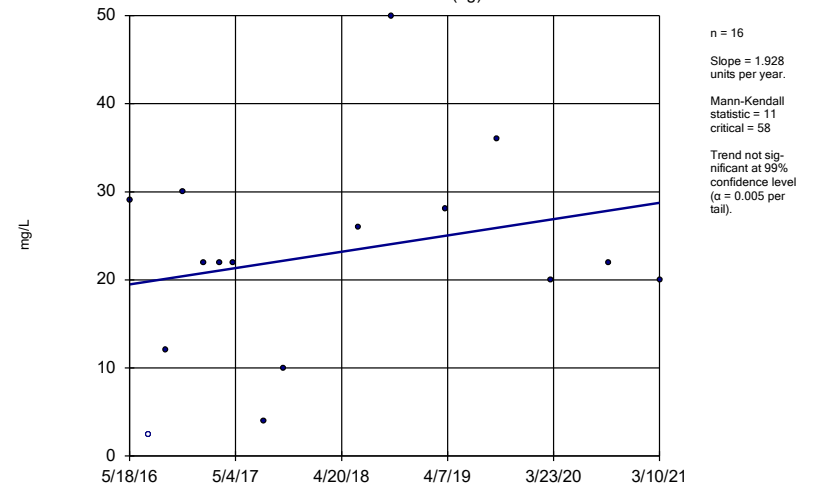
WGWA-2 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

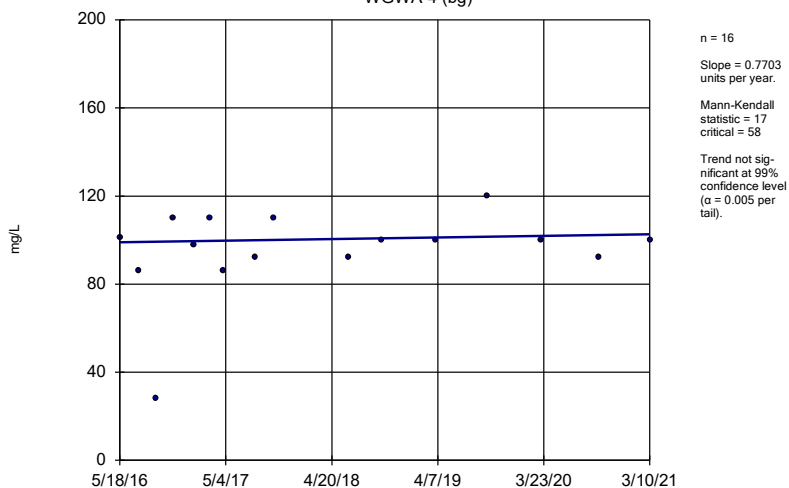
WGWA-3 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-4 (bg)

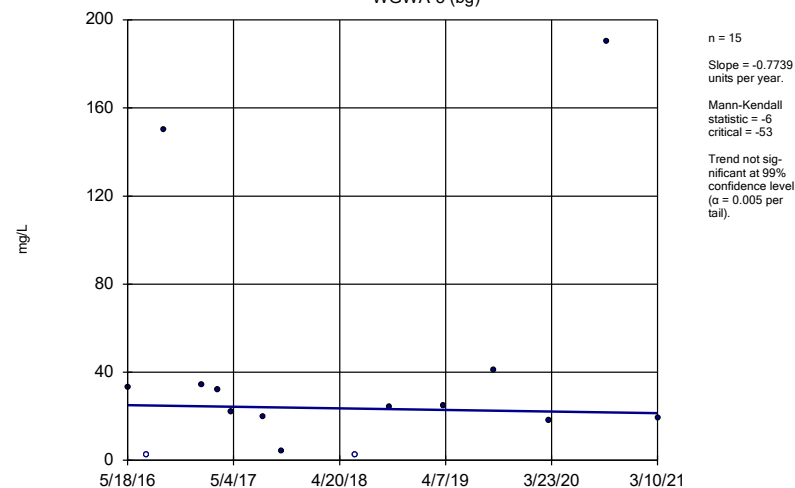


Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

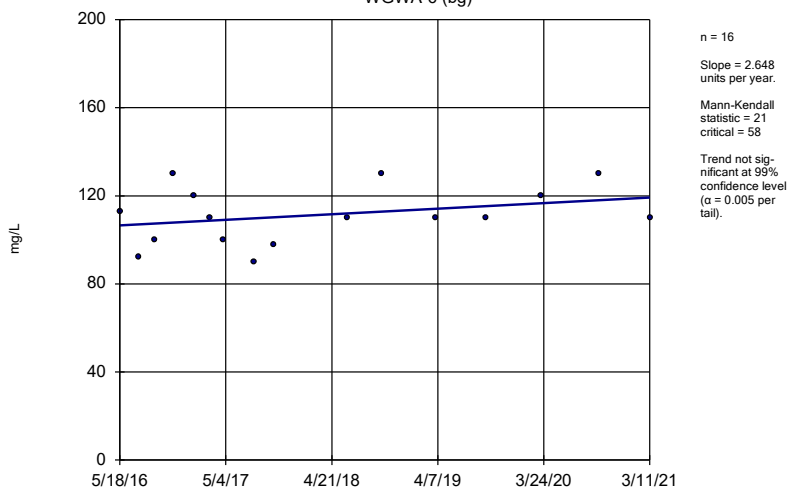
WGWA-5 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-6 (bg)

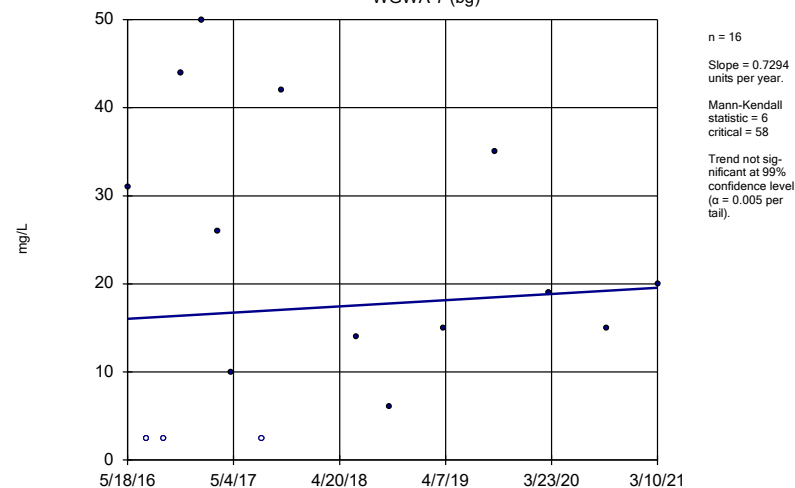


Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

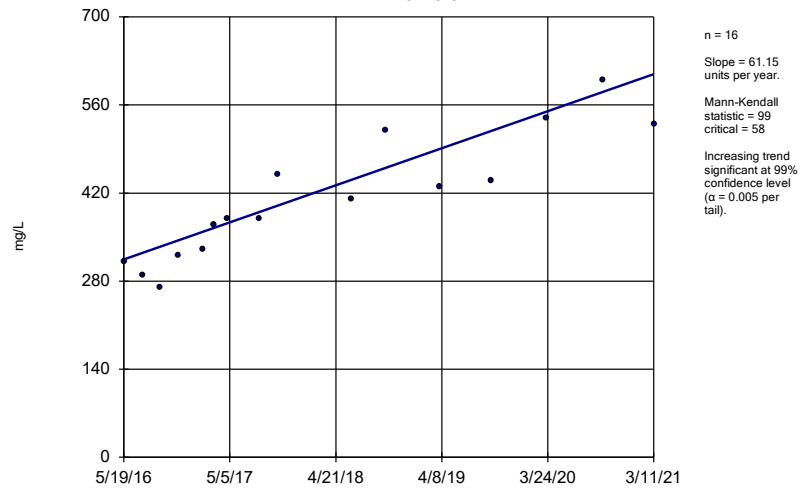
WGWA-7 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-8



Constituent: Total Dissolved Solids Analysis Run 5/11/2021 1:06 PM View: Appendix III - Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:09 PM

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	111	n/a	n/a	98.2	n/a	n/a	0.003368	NP Inter(NDs)
Arsenic (mg/L)	0.0014	n/a	n/a	151	n/a	n/a	78.15	n/a	n/a	0.0004328	NP Inter(NDs)
Barium (mg/L)	0.062	n/a	n/a	151	n/a	n/a	0	n/a	n/a	0.0004328	NP Inter(normality)
Beryllium (mg/L)	0.0025	n/a	n/a	151	n/a	n/a	92.72	n/a	n/a	0.0004328	NP Inter(NDs)
Cadmium (mg/L)	0.0025	n/a	n/a	143	n/a	n/a	100	n/a	n/a	0.0006523	NP Inter(NDs)
Chromium (mg/L)	0.0049	n/a	n/a	151	n/a	n/a	94.7	n/a	n/a	0.0004328	NP Inter(NDs)
Cobalt (mg/L)	0.013	n/a	n/a	150	n/a	n/a	46.67	n/a	n/a	0.0004556	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	10.4	n/a	n/a	148	n/a	n/a	0	n/a	n/a	0.0005048	NP Inter(normality)
Fluoride (mg/L)	0.284	n/a	n/a	159	n/a	n/a	48.43	n/a	n/a	0.0002871	NP Inter(normality)
Lead (mg/L)	0.001	n/a	n/a	135	n/a	n/a	87.41	n/a	n/a	0.0009833	NP Inter(NDs)
Lithium (mg/L)	0.009	n/a	n/a	141	n/a	n/a	49.65	n/a	n/a	0.0007228	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	127	n/a	n/a	88.98	n/a	n/a	0.001482	NP Inter(NDs)
Molybdenum (mg/L)	0.015	n/a	n/a	150	n/a	n/a	89.33	n/a	n/a	0.0004556	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	151	n/a	n/a	94.04	n/a	n/a	0.0004328	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	151	n/a	n/a	91.39	n/a	n/a	0.0004328	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 5/11/2021, 1:19 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	WGWC-19	0.05511	0.04727	0.04	Yes	19	0.05147	0.007214	0	None	In(x)	0.01	Param.

Federal Confidence Intervals - All Results

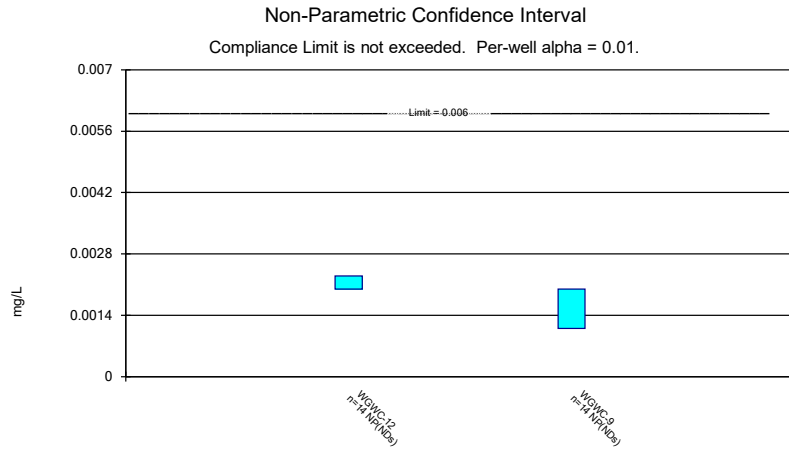
Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	14	0.002021	0.00008018	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.002	0.0011	0.006	No	14	0.001709	0.0005998	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.0005	0.01	No	19	0.0008647	0.0002579	73.68	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	19	0.0009221	0.0001852	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	19	0.0009474	0.0001578	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00039	0.01	No	19	0.0007705	0.0003275	42.11	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0017	0.00095	0.01	No	19	0.001255	0.0005979	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.002218	0.001316	0.01	No	19	0.001767	0.0007698	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0014	0.0009	0.01	No	19	0.001166	0.000338	47.37	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-17	0.001	0.00058	0.01	No	19	0.0008316	0.0002108	47.37	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0011	0.00071	0.01	No	19	0.0009447	0.000273	52.63	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	19	0.0009974	0.0002133	84.21	None	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	19	0.0389	0.006385	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.04001	0.03165	2	No	19	0.03632	0.008138	0	None	ln(x)	0.01	Param.
Barium (mg/L)	WGWC-12	0.0214	0.015	2	No	19	0.01718	0.004267	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-13	0.05663	0.046	2	No	19	0.05132	0.009074	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04655	0.03101	2	No	19	0.03947	0.01419	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-15	0.02388	0.01998	2	No	19	0.02193	0.003332	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.068	0.034	2	No	19	0.04971	0.01622	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-17	0.019	0.011	2	No	19	0.01515	0.004036	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.005	0.0012	2	No	19	0.002804	0.001937	31.58	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.001	2	No	19	0.002962	0.001771	36.84	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.00076	2	No	19	0.002486	0.001832	31.58	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00025	0.004	No	19	0.001788	0.001076	68.42	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	19	0.00238	0.0005231	94.74	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002122	0.001547	0.004	No	19	0.001834	0.0004906	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	19	0.001387	0.001086	47.37	None	No	0.01	NP (normality)
Chromium (mg/L)	WGWC-10	0.002055	0.001385	0.1	No	19	0.001989	0.0005705	15.79	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0017	0.1	No	19	0.0019	0.0002749	78.95	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	19	0.001984	0.00005015	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	19	0.001984	0.00006882	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	19	0.001974	0.0001147	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	19	0.002026	0.0001147	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001624	0.0007953	0.013	No	19	0.001274	0.0008063	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	19	0.001612	0.0009174	36.84	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001165	0.0004782	0.013	No	19	0.0008879	0.0006689	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.00054	0.013	No	19	0.001957	0.0009403	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-14A	0.013	0.0041	0.013	No	19	0.008116	0.004234	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	19	0.002376	0.0005391	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.014	0.00026	0.013	No	19	0.006965	0.006383	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.001683	0.0007808	0.013	No	19	0.001232	0.0007708	5.263	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	19	0.001357	0.001119	47.37	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0028	0.00066	0.013	No	19	0.001889	0.0009969	47.37	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	19	0.002407	0.0004061	94.74	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4447	0.1625	10.4	No	19	0.3036	0.241	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6324	0.1607	10.4	No	19	0.3966	0.4028	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.6056	0.1662	10.4	No	19	0.3859	0.3752	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.776	0.4499	10.4	No	19	0.6129	0.2785	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8302	0.5225	10.4	No	19	0.6987	0.3093	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6444	0.2927	10.4	No	19	0.4988	0.3527	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.819	0.7854	10.4	No	19	1.396	0.9186	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5319	0.09894	10.4	No	19	0.3154	0.3697	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.511	0.126	10.4	No	19	0.3426	0.3052	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.951	1.293	10.4	No	19	1.622	0.5619	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4151	0.1467	10.4	No	19	0.2809	0.2292	0	None	No	0.01	Param.

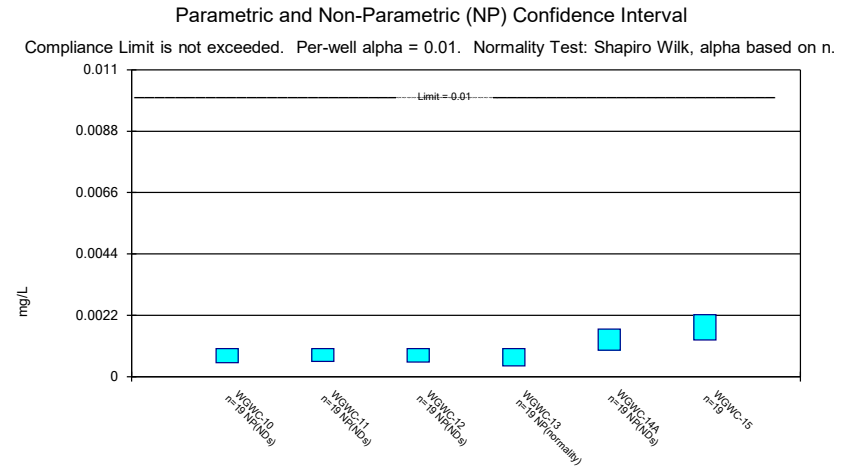
Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:19 PM

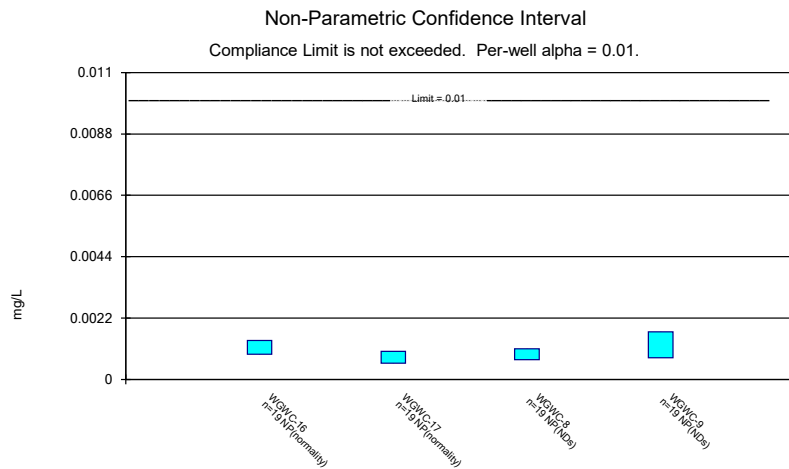
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	WGWC-10	0.176	0.1288	4	No	20	0.1524	0.04163	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.1	0.045	4	No	20	0.08335	0.03667	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-12	0.09725	0.07366	4	No	20	0.09225	0.0206	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	WGWC-13	0.2939	0.2135	4	No	20	0.2537	0.07082	5	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.1	0.04	4	No	20	0.0812	0.02968	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.871	0.7709	4	No	20	0.821	0.08822	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-16	0.1736	0.07849	4	No	20	0.1598	0.1859	10	None	ln(x)	0.01	Param.
Fluoride (mg/L)	WGWC-17	0.1379	0.08713	4	No	20	0.1125	0.04468	5	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.375	0.322	4	No	20	0.3485	0.0466	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.3489	0.1996	4	No	20	0.2743	0.1315	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.521	1.198	4	No	20	1.36	0.2849	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00021	0.015	No	17	0.0006853	0.0003923	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	17	0.0009018	0.0002227	82.35	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00047	0.015	No	17	0.0007529	0.0002551	47.06	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00031	0.015	No	17	0.0008112	0.0003525	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.015	No	17	0.0009588	0.0001698	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	17	0.0008982	0.0002873	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	17	0.0009135	0.0002452	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00017	0.015	No	17	0.0007994	0.0003729	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	17	0.0009494	0.0002086	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01493	0.007503	0.04	No	19	0.01177	0.007138	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	19	0.004437	0.001341	84.21	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007846	0.006125	0.04	No	19	0.006821	0.001782	5.263	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0037	0.04	No	19	0.004421	0.001082	73.68	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.04	No	19	0.004111	0.001325	63.16	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.007289	0.005532	0.04	No	19	0.006411	0.001501	10.53	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01057	0.006798	0.04	No	19	0.008684	0.003222	5.263	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005639	0.004704	0.04	No	19	0.005211	0.0008379	5.263	None	ln(x)	0.01	Param.
Lithium (mg/L)	WGWC-19	0.05511	0.04727	0.04	Yes	19	0.05147	0.007214	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	WGWC-8	0.018	0.013	0.04	No	19	0.01724	0.0103	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03842	0.03279	0.04	No	19	0.03561	0.004809	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	19	0.01352	0.004439	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	19	0.01357	0.004289	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0009	0.1	No	19	0.01071	0.006545	68.42	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0016	0.1	No	19	0.004216	0.004868	15.79	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	19	0.01426	0.003212	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.006785	0.003297	0.1	No	19	0.005316	0.003485	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.005469	0.002641	0.1	No	19	0.004279	0.002553	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.1	No	19	0.006347	0.006791	36.84	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.0071	0.003	0.1	No	19	0.005396	0.003456	0	None	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	19	0.004753	0.001076	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	19	0.004763	0.001035	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	19	0.004847	0.0006653	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	19	0.004753	0.001078	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	19	0.004763	0.001032	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.0111	0.005817	0.05	No	19	0.008461	0.004514	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	19	0.004756	0.001064	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.003858	0.003102	0.05	No	19	0.003504	0.0006592	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	WGWC-9	0.002823	0.002196	0.05	No	19	0.002509	0.0005347	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	19	0.0009518	0.0002099	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	19	0.0009558	0.0001927	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00013	0.002	No	19	0.0005142	0.0004267	42.11	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00015	0.002	No	19	0.0004768	0.0004122	36.84	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	19	0.0009568	0.0001881	94.74	None	No	0.01	NP (NDs)



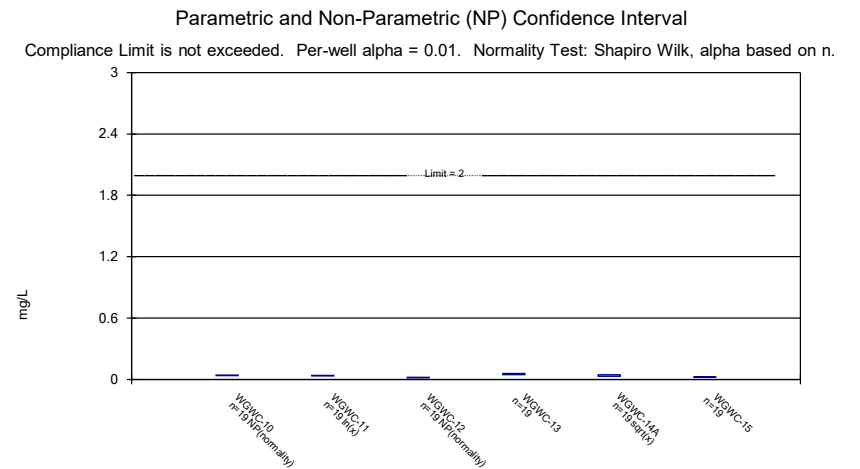
Constituent: Antimony Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Arsenic Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



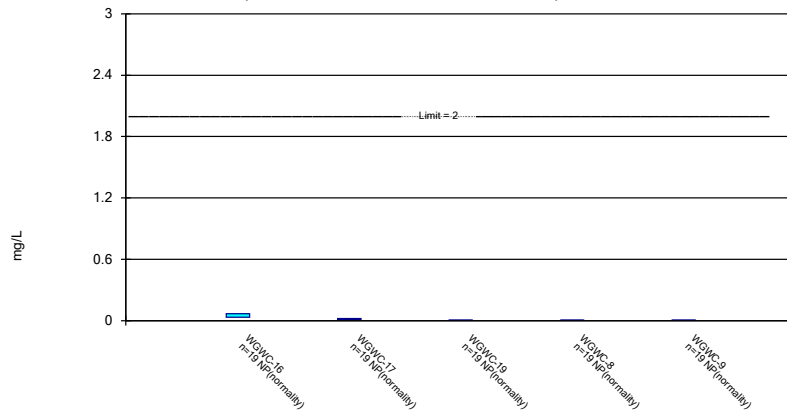
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Barium Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

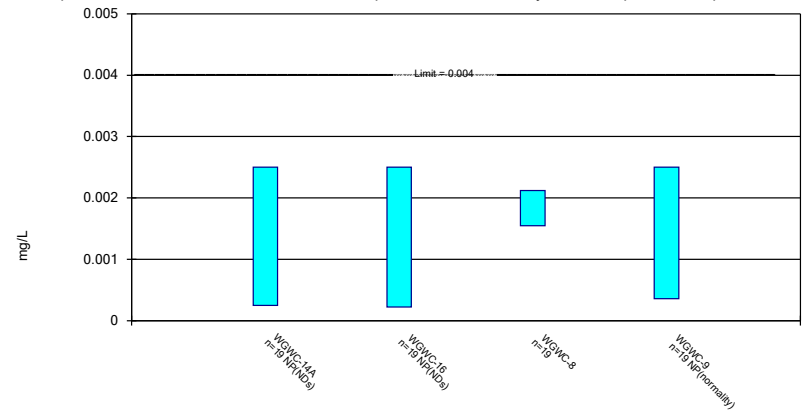
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Constituent: Barium Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

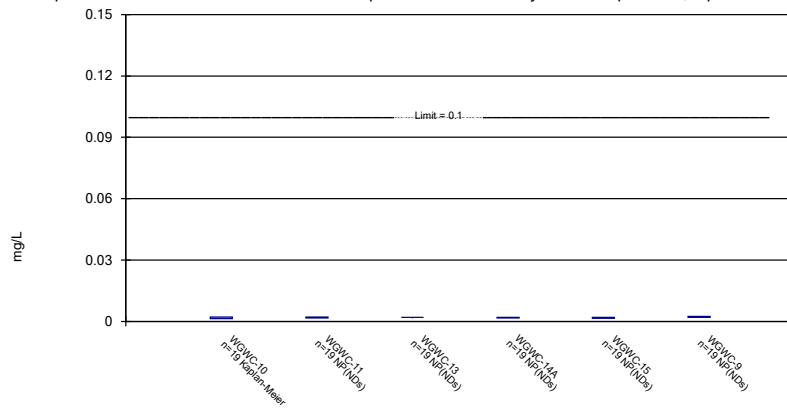
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Constituent: Beryllium Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

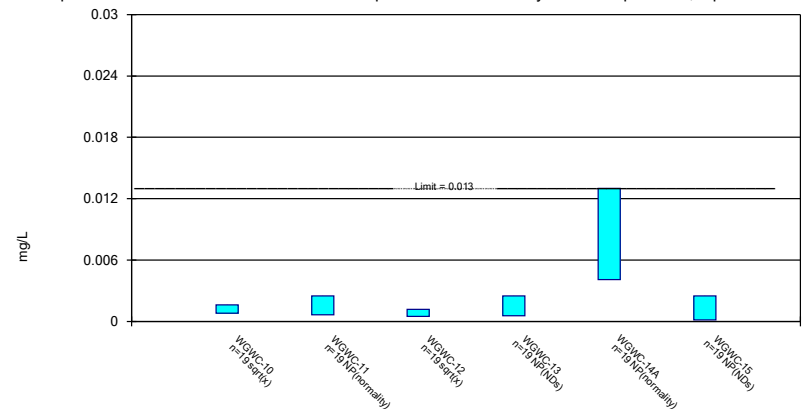
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Constituent: Chromium Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

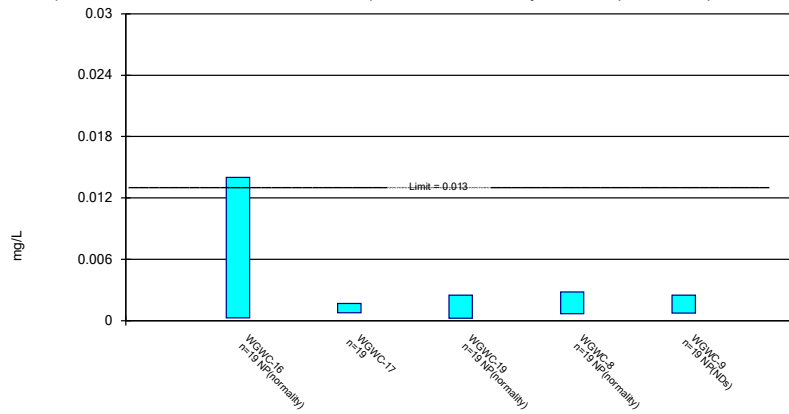
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

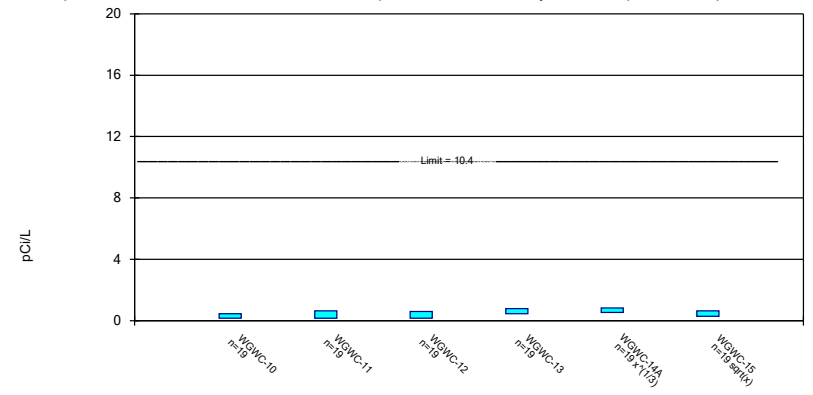
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

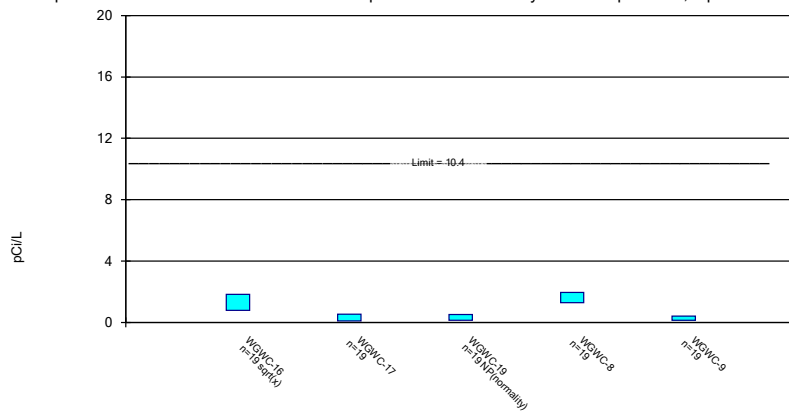
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Constituent: Combined Radium 226 + 228 Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

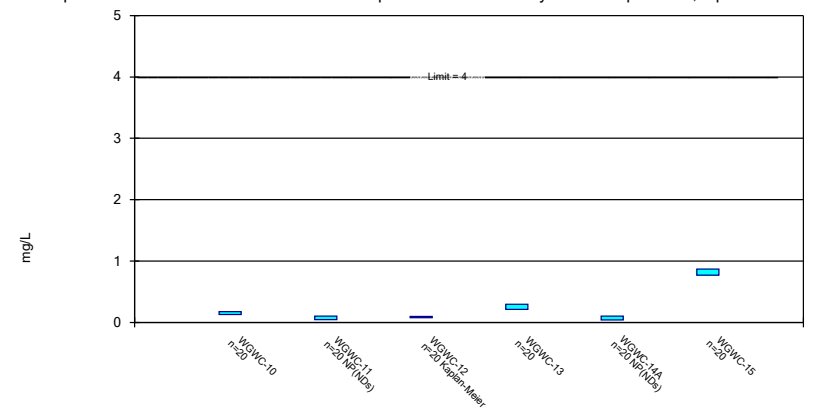
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Constituent: Combined Radium 226 + 228 Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

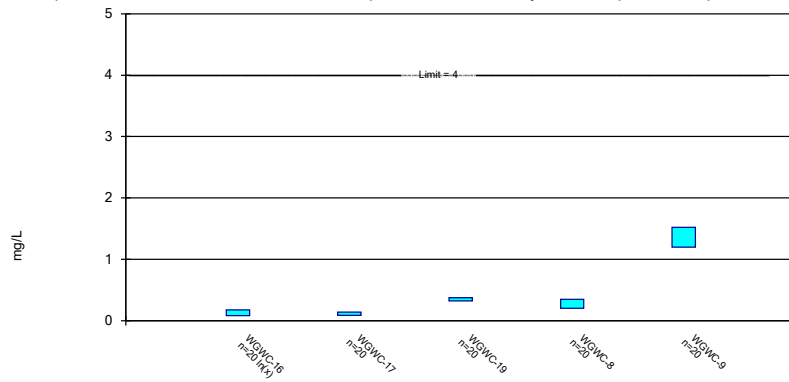
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Constituent: Fluoride Analysis Run 5/11/2021 1:15 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

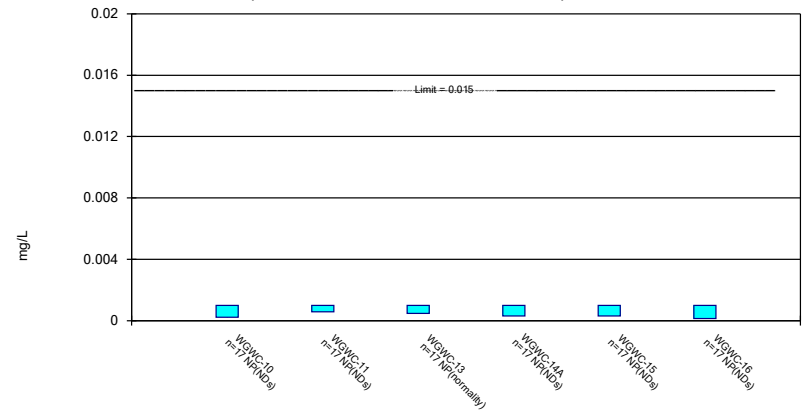
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Constituent: Fluoride Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

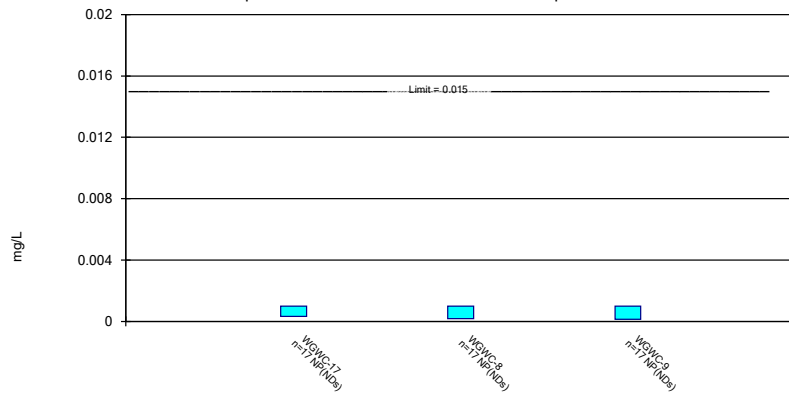
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Constituent: Lead Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

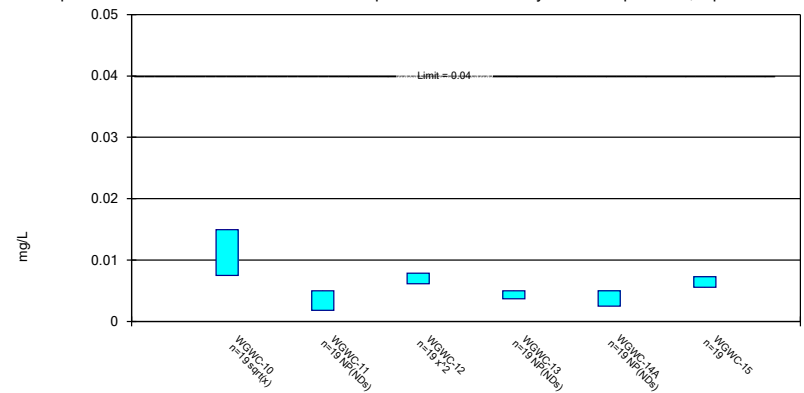
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

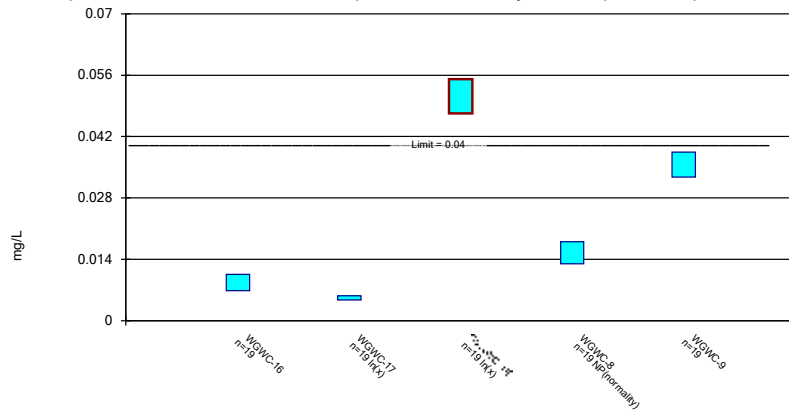
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

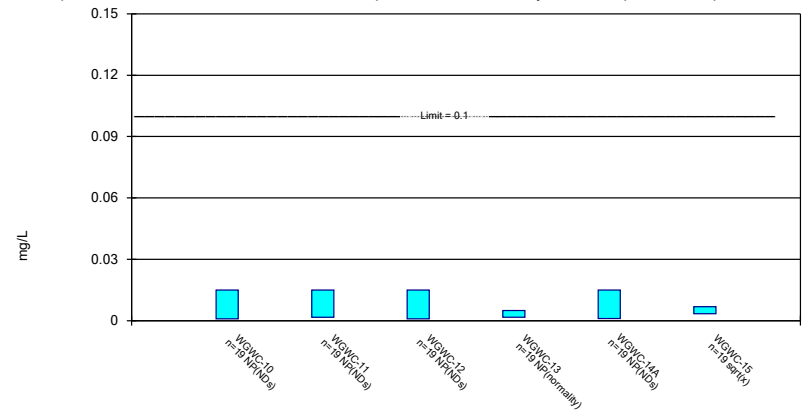
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

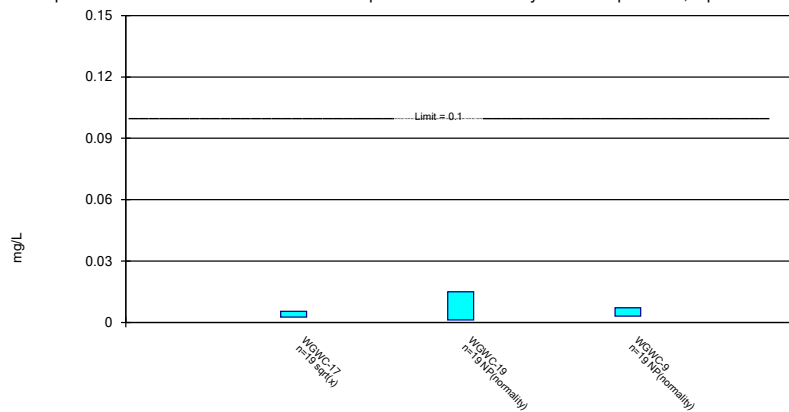
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

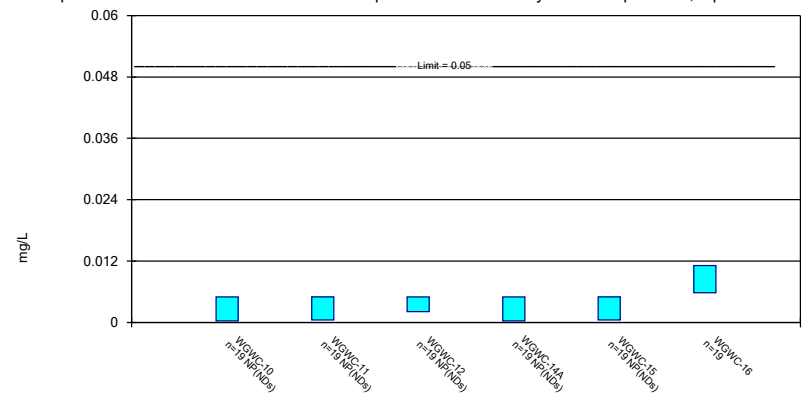
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Constituent: Molybdenum Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

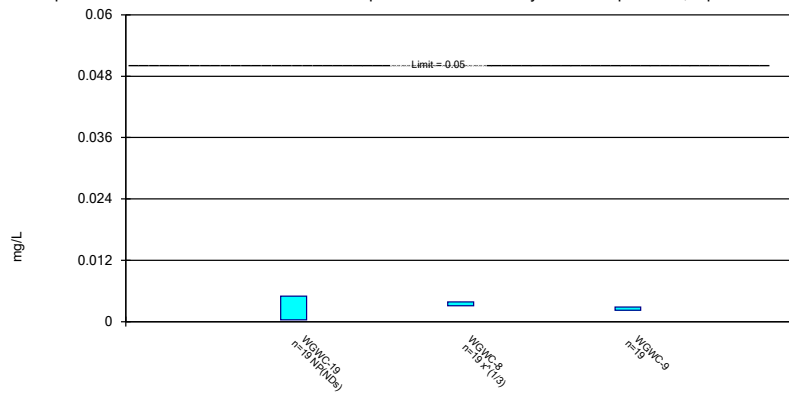
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/11/2021 1:16 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

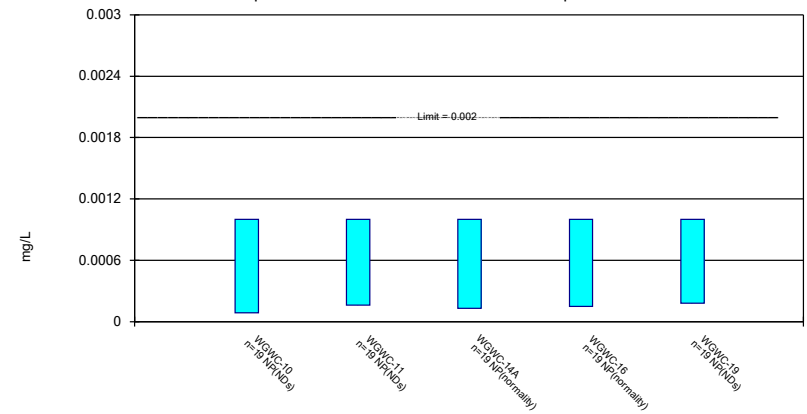
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/11/2021 1:16 PM 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 5/11/2021 1:16 PM 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 5/11/2021, 1:14 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	WGWC-19	0.05511	0.04727	0.009	Yes	19	0.05147	0.007214	0	None	In(x)	0.01	Param.
Lithium (mg/L)	WGWC-8	0.018	0.013	0.009	Yes	19	0.01724	0.0103	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03842	0.03279	0.009	Yes	19	0.03561	0.004809	0	None	No	0.01	Param.

State Confidence Intervals - All Results

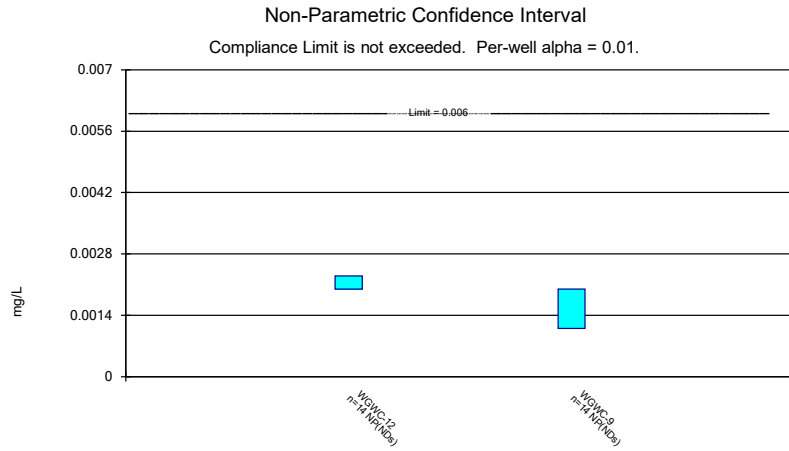
Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	14	0.002021	0.00008018	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.002	0.0011	0.006	No	14	0.001709	0.0005998	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.0005	0.01	No	19	0.0008647	0.0002579	73.68	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	19	0.0009221	0.0001852	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	19	0.0009474	0.0001578	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00039	0.01	No	19	0.0007705	0.0003275	42.11	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0017	0.00095	0.01	No	19	0.001255	0.0005979	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.002218	0.001316	0.01	No	19	0.001767	0.0007698	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0014	0.0009	0.01	No	19	0.001166	0.000338	47.37	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-17	0.001	0.00058	0.01	No	19	0.0008316	0.0002108	47.37	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0011	0.00071	0.01	No	19	0.0009447	0.000273	52.63	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	19	0.0009974	0.0002133	84.21	None	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	19	0.0389	0.006385	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.04001	0.03165	2	No	19	0.03632	0.008138	0	None	ln(x)	0.01	Param.
Barium (mg/L)	WGWC-12	0.0214	0.015	2	No	19	0.01718	0.004267	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-13	0.05663	0.046	2	No	19	0.05132	0.009074	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04655	0.03101	2	No	19	0.03947	0.01419	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-15	0.02388	0.01998	2	No	19	0.02193	0.003332	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.068	0.034	2	No	19	0.04971	0.01622	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-17	0.019	0.011	2	No	19	0.01515	0.004036	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.005	0.0012	2	No	19	0.002804	0.001937	31.58	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.001	2	No	19	0.002962	0.001771	36.84	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.00076	2	No	19	0.002486	0.001832	31.58	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00025	0.004	No	19	0.001788	0.001076	68.42	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	19	0.00238	0.0005231	94.74	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002122	0.001547	0.004	No	19	0.001834	0.0004906	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	19	0.001387	0.001086	47.37	None	No	0.01	NP (normality)
Chromium (mg/L)	WGWC-10	0.002055	0.001385	0.1	No	19	0.001989	0.0005705	15.79	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0017	0.1	No	19	0.0019	0.0002749	78.95	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	19	0.001984	0.00005015	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	19	0.001984	0.00006882	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	19	0.001974	0.0001147	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	19	0.002026	0.0001147	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001624	0.0007953	0.013	No	19	0.001274	0.0008063	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	19	0.001612	0.0009174	36.84	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001165	0.0004782	0.013	No	19	0.0008879	0.0006689	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.00054	0.013	No	19	0.001957	0.0009403	73.68	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-14A	0.013	0.0041	0.013	No	19	0.008116	0.004234	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	19	0.002376	0.0005391	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.014	0.00026	0.013	No	19	0.006965	0.006383	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.001683	0.0007808	0.013	No	19	0.001232	0.0007708	5.263	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	19	0.001357	0.001119	47.37	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0028	0.00066	0.013	No	19	0.001889	0.0009969	47.37	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	19	0.002407	0.0004061	94.74	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4447	0.1625	10.4	No	19	0.3036	0.241	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6324	0.1607	10.4	No	19	0.3966	0.4028	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.6056	0.1662	10.4	No	19	0.3859	0.3752	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.776	0.4499	10.4	No	19	0.6129	0.2785	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8302	0.5225	10.4	No	19	0.6987	0.3093	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6444	0.2927	10.4	No	19	0.4988	0.3527	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.819	0.7854	10.4	No	19	1.396	0.9186	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5319	0.09894	10.4	No	19	0.3154	0.3697	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.511	0.126	10.4	No	19	0.3426	0.3052	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.951	1.293	10.4	No	19	1.622	0.5619	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4151	0.1467	10.4	No	19	0.2809	0.2292	0	None	No	0.01	Param.

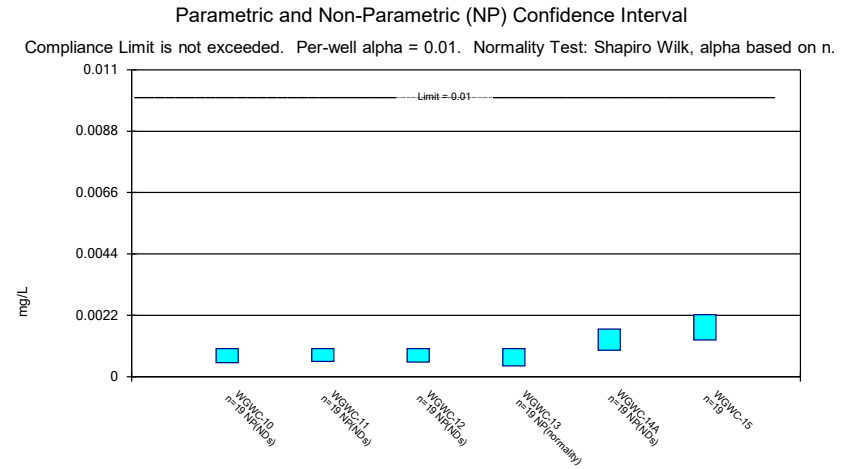
State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 5/11/2021, 1:14 PM

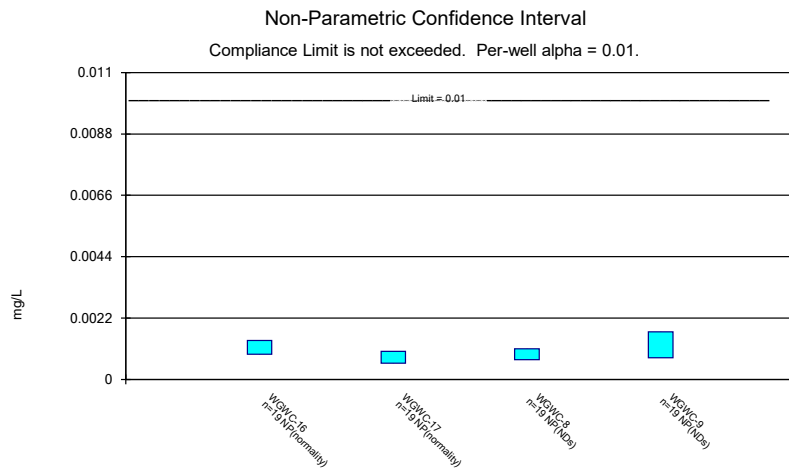
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	WGWC-10	0.176	0.1288	4	No	20	0.1524	0.04163	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.1	0.045	4	No	20	0.08335	0.03667	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-12	0.09725	0.07366	4	No	20	0.09225	0.0206	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	WGWC-13	0.2939	0.2135	4	No	20	0.2537	0.07082	5	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.1	0.04	4	No	20	0.0812	0.02968	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.871	0.7709	4	No	20	0.821	0.08822	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-16	0.1736	0.07849	4	No	20	0.1598	0.1859	10	None	ln(x)	0.01	Param.
Fluoride (mg/L)	WGWC-17	0.1379	0.08713	4	No	20	0.1125	0.04468	5	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.375	0.322	4	No	20	0.3485	0.0466	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.3489	0.1996	4	No	20	0.2743	0.1315	0	None	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.521	1.198	4	No	20	1.36	0.2849	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00021	0.001	No	17	0.0006853	0.0003923	58.82	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.001	No	17	0.0009018	0.0002227	82.35	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00047	0.001	No	17	0.0007529	0.0002551	47.06	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00031	0.001	No	17	0.0008112	0.0003525	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.001	No	17	0.0009588	0.0001698	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.001	No	17	0.0008982	0.0002873	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.001	No	17	0.0009135	0.0002452	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00017	0.001	No	17	0.0007994	0.0003729	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.001	No	17	0.0009494	0.0002086	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01493	0.007503	0.009	No	19	0.01177	0.007138	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.009	No	19	0.004437	0.001341	84.21	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007846	0.006125	0.009	No	19	0.006821	0.001782	5.263	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0037	0.009	No	19	0.004421	0.001082	73.68	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.009	No	19	0.004111	0.001325	63.16	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.007289	0.005532	0.009	No	19	0.006411	0.001501	10.53	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01057	0.006798	0.009	No	19	0.008684	0.003222	5.263	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005639	0.004704	0.009	No	19	0.005211	0.0008379	5.263	None	ln(x)	0.01	Param.
Lithium (mg/L)	WGWC-19	0.05511	0.04727	0.009	Yes	19	0.05147	0.007214	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	WGWC-8	0.018	0.013	0.009	Yes	19	0.01724	0.0103	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03842	0.03279	0.009	Yes	19	0.03561	0.004809	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.015	No	19	0.01352	0.004439	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.015	No	19	0.01357	0.004289	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0009	0.015	No	19	0.01071	0.006545	68.42	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0016	0.015	No	19	0.004216	0.004868	15.79	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.015	No	19	0.01426	0.003212	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.006785	0.003297	0.015	No	19	0.005316	0.003485	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.005469	0.002641	0.015	No	19	0.004279	0.002553	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.015	No	19	0.006347	0.006791	36.84	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.0071	0.003	0.015	No	19	0.005396	0.003456	0	None	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	19	0.004753	0.001076	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	19	0.004763	0.001035	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	19	0.004847	0.0006653	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	19	0.004753	0.001078	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	19	0.004763	0.001032	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.0111	0.005817	0.05	No	19	0.008461	0.004514	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	19	0.004756	0.001064	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.003858	0.003102	0.05	No	19	0.003504	0.0006592	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	WGWC-9	0.002823	0.002196	0.05	No	19	0.002509	0.0005347	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	19	0.0009518	0.0002099	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	19	0.0009558	0.0001927	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00013	0.002	No	19	0.0005142	0.0004267	42.11	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00015	0.002	No	19	0.0004768	0.0004122	36.84	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	19	0.0009568	0.0001881	94.74	None	No	0.01	NP (NDs)



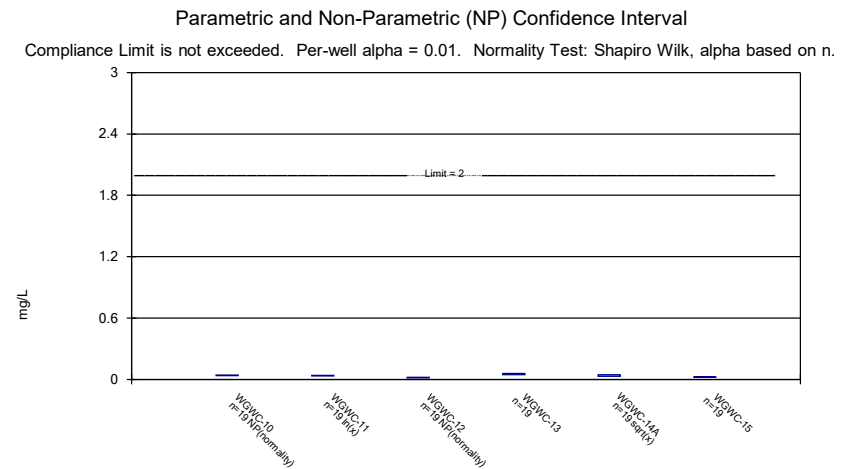
Constituent: Antimony Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Arsenic Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



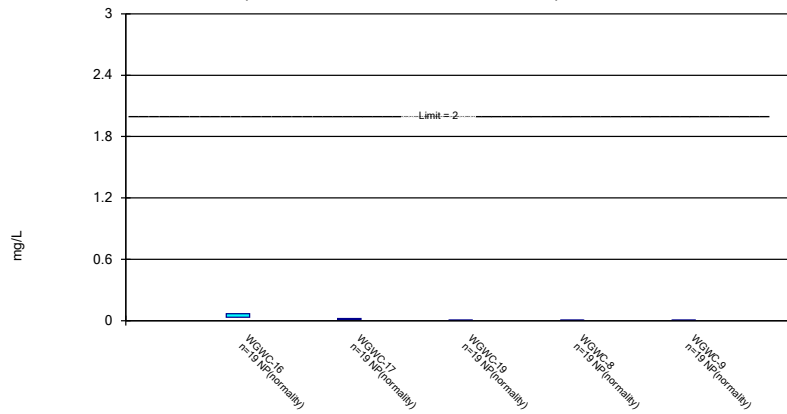
Constituent: Arsenic Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Barium Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

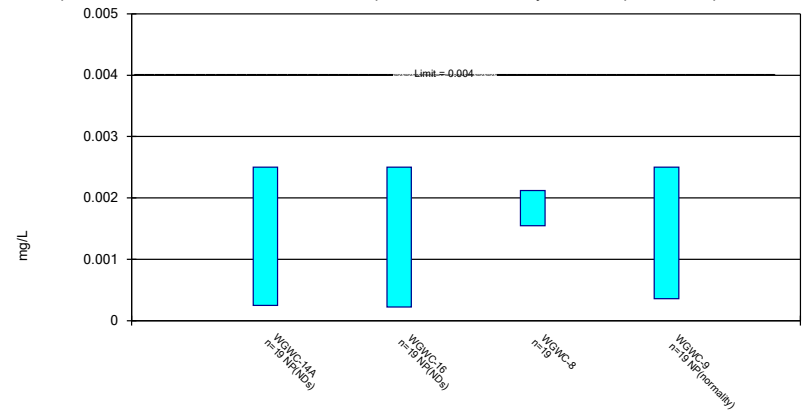
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Constituent: Barium Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

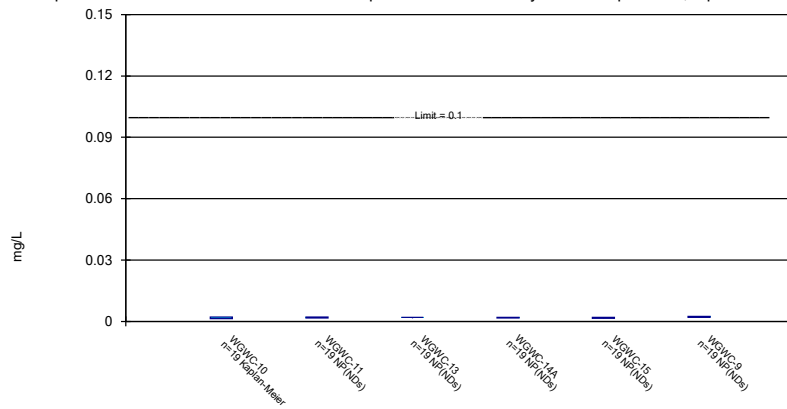
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

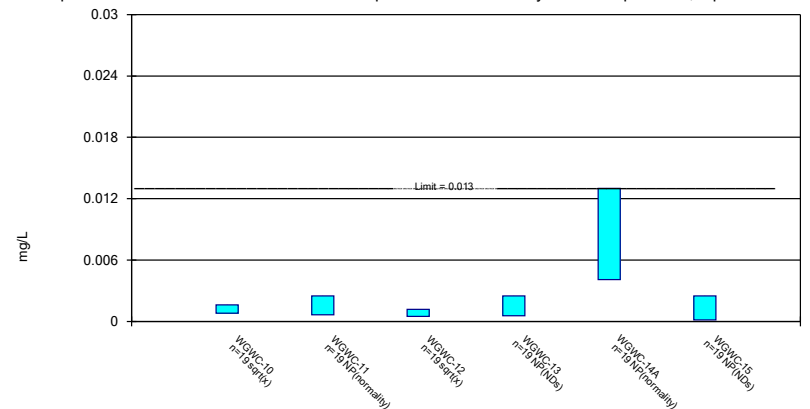
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

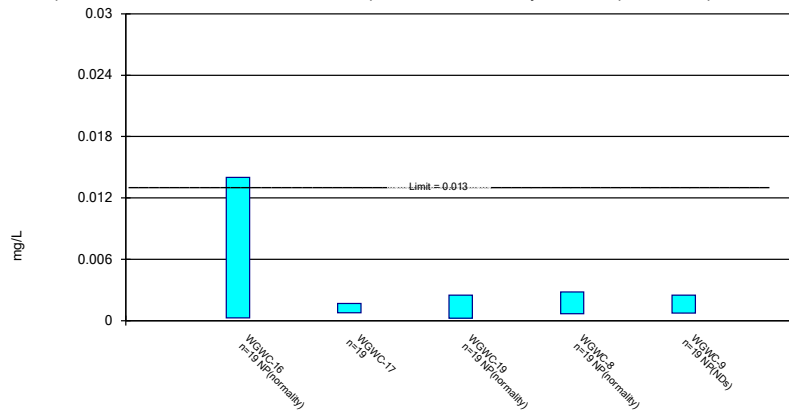
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

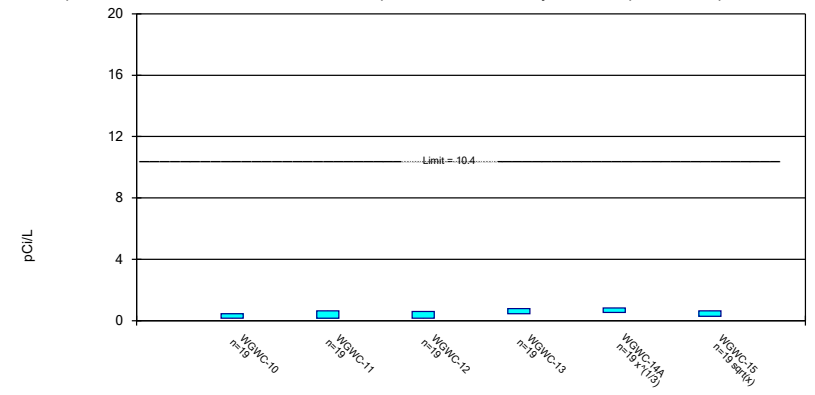
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

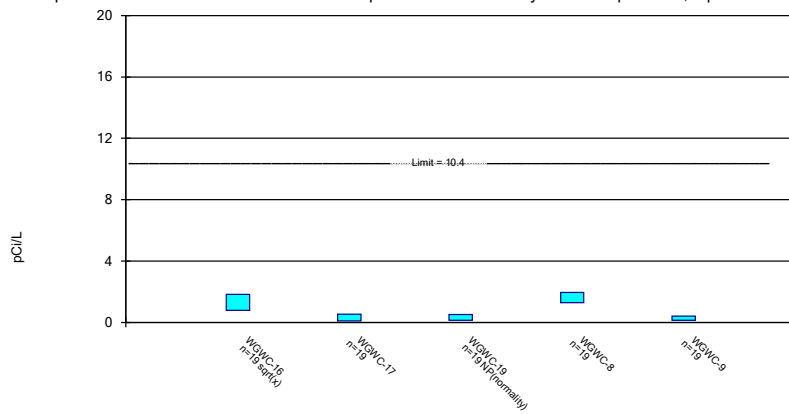
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

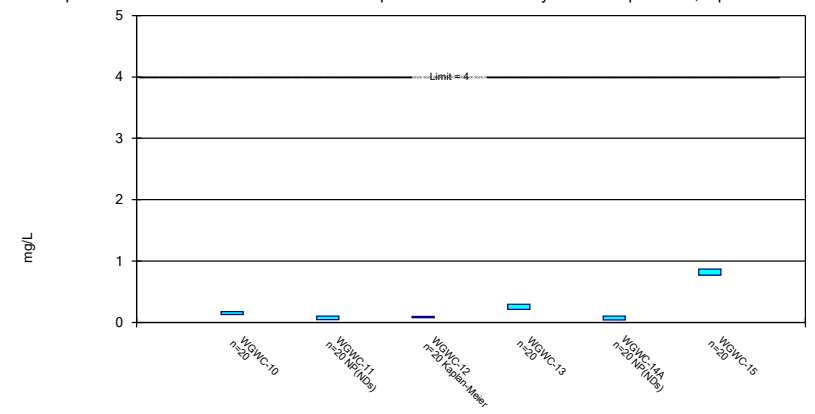
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

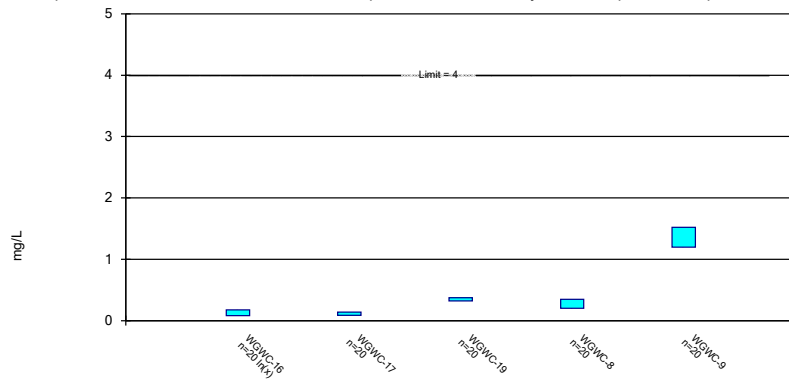
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

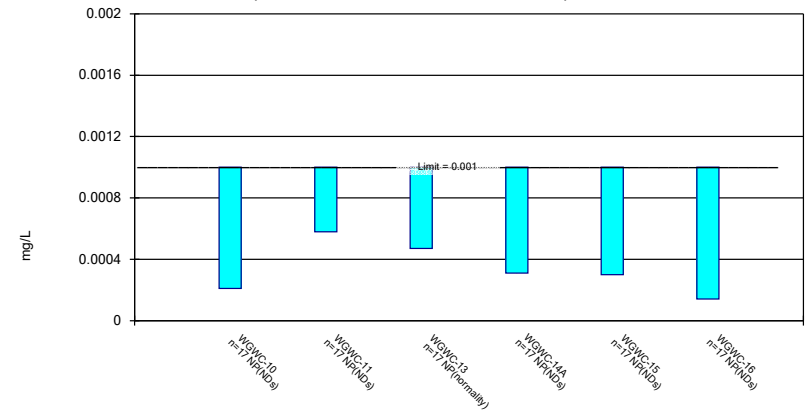
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

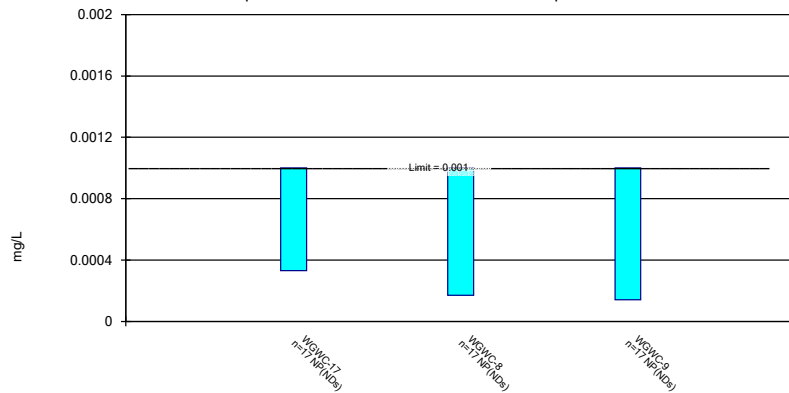
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

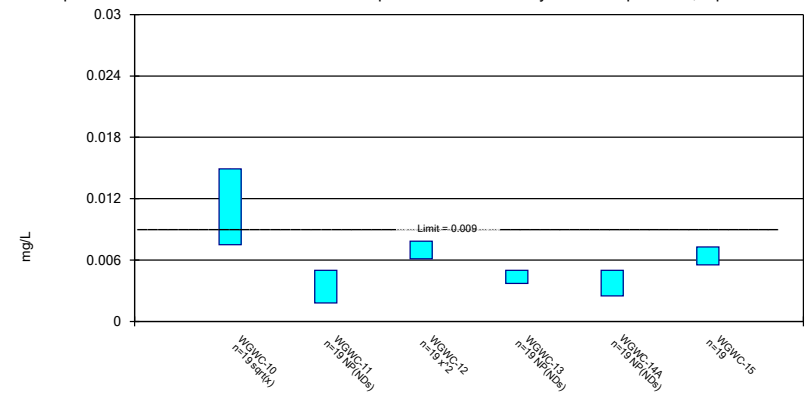
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

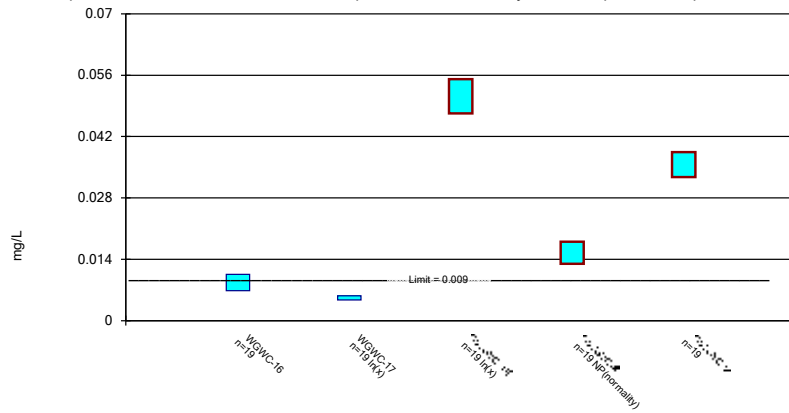
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

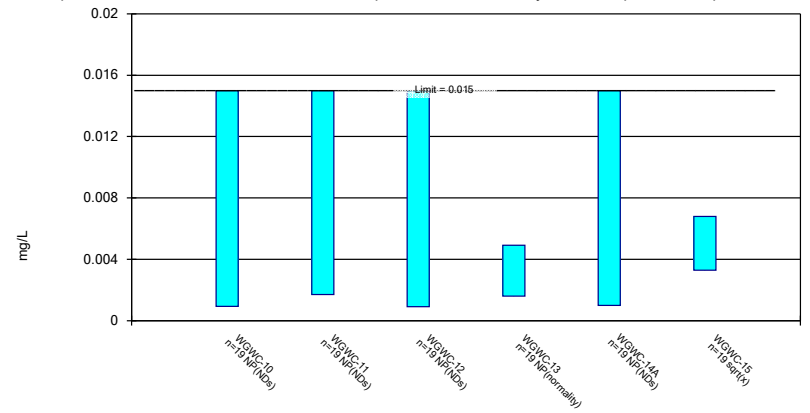
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

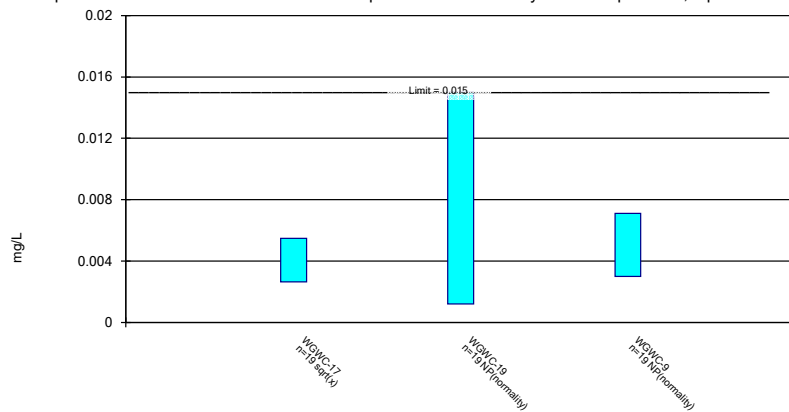
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

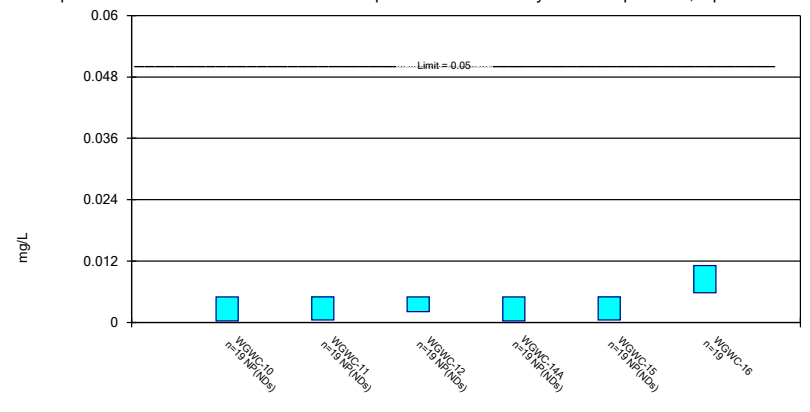
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Constituent: Molybdenum Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

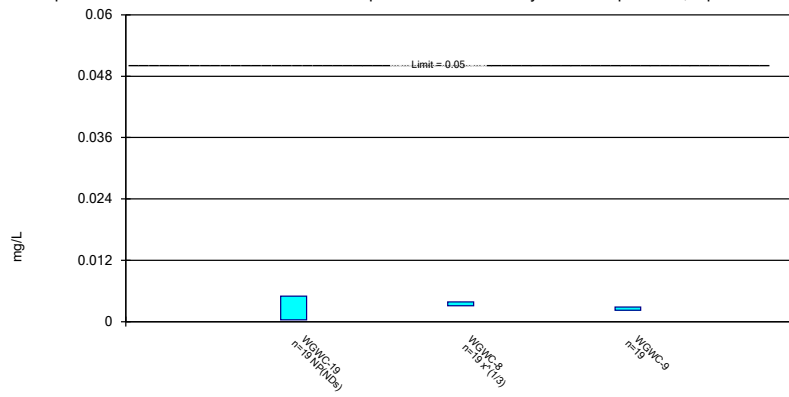
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

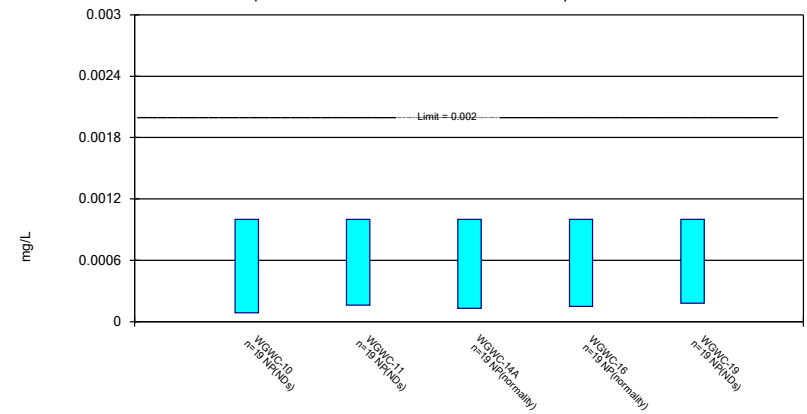
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/11/2021 1:13 PM 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.

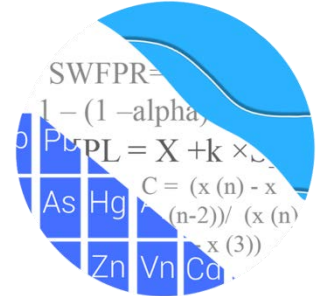


Constituent: Thallium Analysis Run 5/11/2021 1:13 PM View: Appendix IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

GROUNDWATER STATS CONSULTING

January 31, 2022

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Wansley Ash Pond
August 2021 Statistical Analysis

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2021 Groundwater Detection and Assessment Monitoring Statistical summary 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 except for those discussed below. 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, WGWC-19, WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, and WGWC-25

Note that wells WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, and WGWC-25 were first sampled in March 2021. These wells have been sampled for Appendix III parameters and lithium a maximum of 3 times and for other Appendix IV parameters a

maximum of 1 time. These wells will be evaluated with prediction limits for Appendix III parameters once a minimum of 8 samples is available and with confidence intervals for Appendix IV parameters once a minimum of 4 samples is available.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager 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 Coal Combustion Residuals (CCR) program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

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, box plots are 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 Appendix IV downgradient well/constituent pairs with 100% non-detects 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 events. During the annual Scan event conducted in February 2021, cadmium and mercury were not detected; therefore, these constituents were not required to be sampled during the August 2021 event. The only wells sampled for cadmium and mercury were the new downgradient wells WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, and WGWC-25. Data from these wells are plotted on 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 non-detect 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 non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the most recent reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.

- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

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 – August 2021

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

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2021 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2021 sample from each downgradient well is compared to the background limit to determine whether statistically significant increases (SSIs) are present. 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; therefore, it 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. A summary table of the background prediction limits and exceedances follows this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: WGWC-8, WGWC-9, and WGWC-16
- Calcium: WGWC-8
- Chloride: WGWC-8 and WGWC-16
- Fluoride: WGWC-9, WGWC-15, and WGWC-19
- Sulfate: WGWC-8, WGWC-9, and WGWC-16
- TDS: WGWC-8 and WGWC-16

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses 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 Appendix III trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Boron: WGWC-8
- Calcium: WGWC-8
- Chloride: WGWA-1 (upgradient) and WGWC-8
- Sulfate: WGWA-4 (upgradient), WGWC-8, and WGWC-9
- TDS: WGWC-8

Decreasing trends:

- Boron: WGWC-16
- Fluoride: WGWC-9 and WGWC-15

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 (Maximum Contaminant Limits 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 – August 2021

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. Downgradient well/constituent pairs that have 100% non-detects do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis prior to constructing statistical limits. No new values were flagged during this analysis and a complete list of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2021 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% non-detects 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 Federal 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 State GWPS is:

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

Groundwater Protection Standards

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 August 2021 sample event (Figure G). Note that a GWPS is established for cadmium and mercury; however, since these constituents were not sampled at wells that were eligible for being evaluated with confidence intervals during the August 2021 sampling event, no statistical comparison with confidence intervals was required.

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in all downgradient wells. 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 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,



Andrew T. Collins
Project Manager



Tristan Clark
Groundwater Analyst

100% Non-Detects: Appendix IV Downgradient

Analysis Run 10/18/2021 10:42 AM View: Confidence Intervals
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

Lead (mg/L)

WGWC-12, WGWC-19

Molybdenum (mg/L)

WGWC-16, WGWC-8

Selenium (mg/L)

WGWC-13, WGWC-17

Thallium (mg/L)

WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-8, WGWC-9

Interwell Prediction Limits - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/13/2021, 2:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-16	0.1	n/a	8/25/2021	0.89	Yes	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	8/26/2021	2.4	Yes	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	8/26/2021	0.56	Yes	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	8/26/2021	85	Yes	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	8/25/2021	45	Yes	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	8/26/2021	110	Yes	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	8/26/2021	0.77	Yes	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	8/26/2021	0.38	Yes	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	8/26/2021	1	Yes	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	8/25/2021	63	Yes	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	8/26/2021	220	Yes	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	8/26/2021	52	Yes	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	190	n/a	8/25/2021	220	Yes	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	8/26/2021	550	Yes	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/13/2021, 2:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-10	0.1	n/a	8/26/2021	0.08ND	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-11	0.1	n/a	8/25/2021	0.08ND	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-12	0.1	n/a	8/25/2021	0.08ND	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-13	0.1	n/a	8/25/2021	0.063J	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-14A	0.1	n/a	8/25/2021	0.043J	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-15	0.1	n/a	8/26/2021	0.08ND	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-16	0.1	n/a	8/25/2021	0.89	Yes	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-17	0.1	n/a	8/25/2021	0.08ND	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-19	0.1	n/a	8/26/2021	0.08ND	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	8/26/2021	2.4	Yes	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	8/26/2021	0.56	Yes	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-10	58	n/a	8/26/2021	7.6	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-11	58	n/a	8/25/2021	1.5	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-12	58	n/a	8/25/2021	14	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-13	58	n/a	8/25/2021	4	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-14A	58	n/a	8/25/2021	0.7	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-15	58	n/a	8/26/2021	31	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-16	58	n/a	8/25/2021	27	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-17	58	n/a	8/25/2021	6	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-19	58	n/a	8/26/2021	10	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	8/26/2021	85	Yes	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-9	58	n/a	8/26/2021	9.3	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-10	6.05	n/a	8/26/2021	1.6	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-11	6.05	n/a	8/25/2021	3.5	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-12	6.05	n/a	8/25/2021	3.7	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-13	6.05	n/a	8/25/2021	1.2	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-14A	6.05	n/a	8/25/2021	2.8	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-15	6.05	n/a	8/26/2021	1.4	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	8/25/2021	45	Yes	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-17	6.05	n/a	8/25/2021	1.6	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-19	6.05	n/a	8/26/2021	3.3	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	8/26/2021	110	Yes	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-9	6.05	n/a	8/26/2021	3.1	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-10	0.284	n/a	8/26/2021	0.16	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-11	0.284	n/a	8/25/2021	0.056J	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-12	0.284	n/a	8/25/2021	0.14	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-13	0.284	n/a	8/25/2021	0.2	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-14A	0.284	n/a	8/25/2021	0.071J	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	8/26/2021	0.77	Yes	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-16	0.284	n/a	8/25/2021	0.099J	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-17	0.284	n/a	8/25/2021	0.093J	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	8/26/2021	0.38	Yes	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-8	0.284	n/a	8/26/2021	0.21	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	8/26/2021	1	Yes	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-10	7.96	4.96	8/26/2021	6.31	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-11	7.96	4.96	8/25/2021	5.66	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-12	7.96	4.96	8/25/2021	6.69	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-13	7.96	4.96	8/25/2021	6.27	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-14A	7.96	4.96	8/25/2021	5.39	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-15	7.96	4.96	8/26/2021	7.58	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-16	7.96	4.96	8/25/2021	5.25	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-17	7.96	4.96	8/25/2021	6.09	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-19	7.96	4.96	8/26/2021	6.66	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-8	7.96	4.96	8/26/2021	5.36	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-9	7.96	4.96	8/26/2021	5.84	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-10	21	n/a	8/26/2021	1.8	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-11	21	n/a	8/25/2021	1.1	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-12	21	n/a	8/25/2021	13	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-13	21	n/a	8/25/2021	1.8	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-14A	21	n/a	8/25/2021	0.5ND	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-15	21	n/a	8/26/2021	16	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	8/25/2021	63	Yes	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-17	21	n/a	8/25/2021	3.3	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-19	21	n/a	8/26/2021	3.5	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	8/26/2021	220	Yes	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	8/26/2021	52	Yes	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-10	190	n/a	8/26/2021	60	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-11	190	n/a	8/25/2021	32	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/13/2021, 2:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	WGWC-12	190	n/a	8/25/2021	110	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-13	190	n/a	8/25/2021	53	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-14A	190	n/a	8/25/2021	30	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-15	190	n/a	8/26/2021	150	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	190	n/a	8/25/2021	220	Yes	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-17	190	n/a	8/25/2021	84	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-19	190	n/a	8/26/2021	94	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	8/26/2021	550	Yes	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-9	190	n/a	8/26/2021	170	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2

Appendix III Trend Test - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/14/2021, 2:21 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWC-16	-0.8908	-67	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1894	76	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	11.35	114	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.1576	72	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	19.27	119	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.03558	-89	-87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1308	-130	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.6018	87	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.18	97	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.415	67	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	56.43	113	63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Test - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/14/2021, 2:21 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWA-1 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-18 (bg)	0	16	63	No	17	94.12	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-2 (bg)	0	-25	-63	No	17	88.24	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-3 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-4 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-5 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-6 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-7 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-16	-0.8908	-67	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1894	76	63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.04945	60	63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-1 (bg)	0.04698	57	63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.185	-38	-63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-2 (bg)	-0.395	-34	-63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-3 (bg)	0	1	63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-4 (bg)	0	-29	-63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-5 (bg)	-0.04844	-17	-58	No	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-6 (bg)	0	12	63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-7 (bg)	-0.06577	-24	-63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	11.35	114	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.1576	72	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-18 (bg)	-0.07462	-26	-63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-2 (bg)	0.05277	43	63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-3 (bg)	0	0	63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-4 (bg)	0	-35	-63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.08802	-54	-58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-6 (bg)	0	7	63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-7 (bg)	0	-4	-63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-40.74	-58	-63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	19.27	119	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-1 (bg)	0	-37	-87	No	21	71.43	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008559	-62	-87	No	21	19.05	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-2 (bg)	-0.01627	-73	-87	No	21	42.86	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-3 (bg)	0	-41	-87	No	21	66.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-4 (bg)	-0.004045	-43	-87	No	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-5 (bg)	0	16	81	No	20	85	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-6 (bg)	-0.005197	-59	-87	No	21	9.524	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-7 (bg)	0	-22	-87	No	21	76.19	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.03558	-89	-87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-19	-0.01576	-77	-87	No	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1308	-130	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-1 (bg)	0	-19	-63	No	17	88.24	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-18 (bg)	-0.7373	-43	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-2 (bg)	-0.004597	-12	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-3 (bg)	0.01065	10	63	No	17	5.882	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.6018	87	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-5 (bg)	0.05912	24	58	No	16	25	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-6 (bg)	0	6	63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-7 (bg)	0	-16	-63	No	17	70.59	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-81.66	-45	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.18	97	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.415	67	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-1 (bg)	2.425	33	63	No	17	23.53	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-18 (bg)	0.1365	3	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-2 (bg)	2.696	17	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-3 (bg)	0.347	7	63	No	17	5.882	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-4 (bg)	1.733	28	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-5 (bg)	1.304	6	58	No	16	12.5	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-6 (bg)	2.921	29	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-7 (bg)	1.224	10	63	No	17	17.65	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	-216	-40	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	56.43	113	63	Yes	17	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/18/2021, 10:38 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0022	n/a	n/a	n/a	119	n/a	n/a	98.32	n/a	n/a	0.002234	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0014	n/a	n/a	n/a	159	n/a	n/a	79.25	n/a	n/a	0.0002871	NP Inter(NDs)
Barium (mg/L)	n/a	0.062	n/a	n/a	n/a	159	n/a	n/a	0	n/a	n/a	0.0002871	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	159	n/a	n/a	93.08	n/a	n/a	0.0002871	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	143	n/a	n/a	100	n/a	n/a	0.0006523	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0049	n/a	n/a	n/a	159	n/a	n/a	94.97	n/a	n/a	0.0002871	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.013	n/a	n/a	n/a	158	n/a	n/a	46.2	n/a	n/a	0.0003022	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	10.4	n/a	n/a	n/a	156	n/a	n/a	0	n/a	n/a	0.0003349	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.284	n/a	n/a	n/a	167	n/a	n/a	46.11	n/a	n/a	0.0001905	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	143	n/a	n/a	87.41	n/a	n/a	0.0006523	NP Inter(NDs)
Lithium (mg/L)	n/a	0.009	n/a	n/a	n/a	149	n/a	n/a	50.34	n/a	n/a	0.0004795	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	127	n/a	n/a	88.98	n/a	n/a	0.001482	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	158	n/a	n/a	89.87	n/a	n/a	0.0003022	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	159	n/a	n/a	94.34	n/a	n/a	0.0002871	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	159	n/a	n/a	91.82	n/a	n/a	0.0002871	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 10/18/2021, 10:45 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	0.0558	0.0477	0.04	Yes 20	0.05175	0.007129	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/18/2021, 10:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	15	0.00202	0.00007746	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.002	0.0011	0.006	No	15	0.001728	0.0005829	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	20	0.0008715	0.0002529	75	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	20	0.000926	0.0001811	85	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	20	0.00095	0.000154	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00039	0.01	No	20	0.000782	0.0003229	45	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0014	0.00095	0.01	No	20	0.001243	0.0005847	65	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-15	0.00217	0.001307	0.01	No	20	0.001739	0.00076	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0014	0.001	0.01	No	20	0.001158	0.0003311	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-17	0.001	0.00067	0.01	No	20	0.00084	0.0002086	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0008798	0.0005162	0.01	No	20	0.0009625	0.0002774	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	20	0.0009975	0.0002076	85	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	20	0.03856	0.006403	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.0405	0.03202	2	No	20	0.0365	0.007964	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-12	0.01954	0.0154	2	No	20	0.01712	0.004162	0	None	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05611	0.04599	2	No	20	0.05105	0.008912	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04693	0.03107	2	No	20	0.039	0.01397	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02433	0.02023	2	No	20	0.02228	0.003608	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.05813	0.03982	2	No	20	0.04898	0.01613	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-17	0.019	0.011	2	No	20	0.01495	0.004036	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.005	0.0013	2	No	20	0.002913	0.001948	35	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.0011	2	No	20	0.003064	0.001783	40	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.001567	0.0008775	2	No	20	0.002611	0.00187	35	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	WGWC-14A	0.0025	0.00026	0.004	No	20	0.001824	0.00106	70	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	20	0.002386	0.0005098	95	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002114	0.001571	0.004	No	20	0.001843	0.000479	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	20	0.001337	0.00108	45	None	No	0.01	NP (normality)
Chromium (mg/L)	WGWC-10	0.00233	0.00169	0.1	No	20	0.00201	0.0005628	15	None	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0017	0.1	No	20	0.001905	0.0002685	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	20	0.00197	0.00008013	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	20	0.001985	0.00006708	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	20	0.001975	0.0001118	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	20	0.002025	0.0001118	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001563	0.0007636	0.013	No	20	0.001232	0.0008066	5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	20	0.001554	0.00093	35	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001126	0.000479	0.013	No	20	0.0008685	0.0006568	5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0008	0.013	No	20	0.001984	0.0009233	75	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-14A	0.01029	0.005423	0.013	No	20	0.007855	0.004283	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	20	0.002382	0.0005255	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.014	0.00026	0.013	No	20	0.006741	0.006293	10	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.00163	0.0007532	0.013	No	20	0.001191	0.0007719	5	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	20	0.0013	0.001118	45	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0025	0.00066	0.013	No	20	0.00182	0.001019	45	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	20	0.002411	0.0003958	95	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4377	0.1713	10.4	No	20	0.3045	0.2346	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6194	0.1742	10.4	No	20	0.3968	0.392	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.5963	0.1813	10.4	No	20	0.3888	0.3654	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7865	0.4694	10.4	No	20	0.628	0.2793	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8335	0.5318	10.4	No	20	0.6991	0.3011	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6472	0.3074	10.4	No	20	0.5077	0.3456	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.872	0.8325	10.4	No	20	1.352	0.9154	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5347	0.1211	10.4	No	20	0.3279	0.3641	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.5435	0.187	10.4	No	20	0.3653	0.3139	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	2.033	1.336	10.4	No	20	1.685	0.614	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4374	0.1644	10.4	No	20	0.3009	0.2404	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/18/2021, 10:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	WGWC-10	0.1752	0.1304	4	No	21	0.1528	0.04061	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-11	0.056	0.045	4	No	21	0.05348	0.02964	57.14	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-12	0.1009	0.07516	4	No	21	0.085	0.0284	19.05	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-13	0.2907	0.2068	4	No	21	0.2488	0.076	4.762	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-14A	0.05	0.04	4	No	21	0.04738	0.008657	66.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-15	0.8664	0.7707	4	No	21	0.8185	0.0867	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-16	0.15	0.058	4	No	21	0.1521	0.1838	9.524	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-17	0.1344	0.08396	4	No	21	0.1092	0.04573	4.762	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-19	0.3753	0.3247	4	No	21	0.35	0.04593	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-8	0.3423	0.2001	4	No	21	0.2712	0.1289	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-9	1.502	1.183	4	No	21	1.342	0.2886	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00021	0.015	No	18	0.0006617	0.0003936	55.56	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	18	0.0008644	0.0002679	77.78	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00045	0.015	No	18	0.000725	0.0002744	44.44	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00031	0.015	No	18	0.0007889	0.0003548	72.22	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.015	No	18	0.0009611	0.000165	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	18	0.0009039	0.0002797	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	18	0.0009183	0.0002387	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00016	0.015	No	18	0.0007628	0.0003937	72.22	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	18	0.0009522	0.0002027	94.44	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01439	0.007231	0.04	No	20	0.01141	0.007141	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	20	0.004465	0.001312	85	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.00777	0.006121	0.04	No	20	0.006785	0.001742	5	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0038	0.04	No	20	0.00445	0.001062	75	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-14A	0.005	0.0033	0.04	No	20	0.004155	0.001305	65	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-15	0.007217	0.005553	0.04	No	20	0.006385	0.001465	10	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01033	0.006625	0.04	No	20	0.00848	0.003266	5	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005656	0.004724	0.04	No	20	0.00519	0.0008207	5	None	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.0558	0.0477	0.04	Yes	20	0.05175	0.007129	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.017	0.013	0.04	No	20	0.01703	0.01007	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03808	0.03257	0.04	No	20	0.03533	0.004846	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	20	0.01359	0.004334	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	20	0.01364	0.004187	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.00095	0.1	No	20	0.01092	0.006442	70	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0016	0.1	No	20	0.004051	0.004795	15	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	20	0.0143	0.00313	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.006568	0.003266	0.1	No	20	0.005195	0.003435	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.005288	0.002606	0.1	No	20	0.004176	0.002528	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.1	No	20	0.006085	0.006713	35	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.006065	0.003563	0.1	No	20	0.005266	0.003413	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	20	0.004765	0.001049	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	20	0.004774	0.001008	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	20	0.004855	0.0006485	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	20	0.004765	0.001051	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	20	0.004775	0.001006	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01076	0.005502	0.05	No	20	0.008133	0.004632	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	20	0.004768	0.001038	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.003879	0.003149	0.05	No	20	0.003514	0.0006431	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-9	0.002822	0.002226	0.05	No	20	0.002524	0.0005245	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	20	0.0009543	0.0002046	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	20	0.000958	0.0001878	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00014	0.002	No	20	0.0005385	0.0004292	45	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00017	0.002	No	20	0.000503	0.0004179	40	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	20	0.000959	0.0001834	95	None	No	0.01	NP (NDs)

State Confidence Intervals - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/18/2021, 10:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	WGWC-19	0.0558	0.0477	0.009	Yes 20	0.05175	0.007129	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.017	0.013	0.009	Yes 20	0.01703	0.01007	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03808	0.03257	0.009	Yes 20	0.03533	0.004846	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/18/2021, 10:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	15	0.00202	0.00007746	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.002	0.0011	0.006	No	15	0.001728	0.0005829	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	20	0.0008715	0.0002529	75	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	20	0.000926	0.0001811	85	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	20	0.00095	0.000154	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00039	0.01	No	20	0.000782	0.0003229	45	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0014	0.00095	0.01	No	20	0.001243	0.0005847	65	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-15	0.00217	0.001307	0.01	No	20	0.001739	0.00076	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0014	0.001	0.01	No	20	0.001158	0.0003311	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-17	0.001	0.00067	0.01	No	20	0.00084	0.0002086	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0008798	0.0005162	0.01	No	20	0.0009625	0.0002774	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	20	0.0009975	0.0002076	85	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	20	0.03856	0.006403	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.0405	0.03202	2	No	20	0.0365	0.007964	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-12	0.01954	0.0154	2	No	20	0.01712	0.004162	0	None	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05611	0.04599	2	No	20	0.05105	0.008912	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04693	0.03107	2	No	20	0.039	0.01397	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02433	0.02023	2	No	20	0.02228	0.003608	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.05813	0.03982	2	No	20	0.04898	0.01613	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-17	0.019	0.011	2	No	20	0.01495	0.004036	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.005	0.0013	2	No	20	0.002913	0.001948	35	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.0011	2	No	20	0.003064	0.001783	40	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.001567	0.0008775	2	No	20	0.002611	0.00187	35	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	WGWC-14A	0.0025	0.00026	0.004	No	20	0.001824	0.00106	70	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	20	0.002386	0.0005098	95	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002114	0.001571	0.004	No	20	0.001843	0.000479	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	20	0.001337	0.00108	45	None	No	0.01	NP (normality)
Chromium (mg/L)	WGWC-10	0.00233	0.00169	0.1	No	20	0.00201	0.0005628	15	None	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0017	0.1	No	20	0.001905	0.0002685	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	20	0.00197	0.00008013	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	20	0.001985	0.00006708	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	20	0.001975	0.0001118	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	20	0.002025	0.0001118	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001563	0.0007636	0.013	No	20	0.001232	0.0008066	5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	20	0.001554	0.00093	35	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001126	0.000479	0.013	No	20	0.0008685	0.0006568	5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0008	0.013	No	20	0.001984	0.0009233	75	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-14A	0.01029	0.005423	0.013	No	20	0.007855	0.004283	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	20	0.002382	0.0005255	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.014	0.00026	0.013	No	20	0.006741	0.006293	10	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.00163	0.0007532	0.013	No	20	0.001191	0.0007719	5	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	20	0.0013	0.001118	45	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0025	0.00066	0.013	No	20	0.00182	0.001019	45	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	20	0.002411	0.0003958	95	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4377	0.1713	10.4	No	20	0.3045	0.2346	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6194	0.1742	10.4	No	20	0.3968	0.392	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.5963	0.1813	10.4	No	20	0.3888	0.3654	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7865	0.4694	10.4	No	20	0.628	0.2793	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8335	0.5318	10.4	No	20	0.6991	0.3011	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6472	0.3074	10.4	No	20	0.5077	0.3456	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.872	0.8325	10.4	No	20	1.352	0.9154	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5347	0.1211	10.4	No	20	0.3279	0.3641	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.5435	0.187	10.4	No	20	0.3653	0.3139	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	2.033	1.336	10.4	No	20	1.685	0.614	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4374	0.1644	10.4	No	20	0.3009	0.2404	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/18/2021, 10:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	WGWC-10	0.1752	0.1304	4	No	21	0.1528	0.04061	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-11	0.056	0.045	4	No	21	0.05348	0.02964	57.14	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-12	0.1009	0.07516	4	No	21	0.085	0.0284	19.05	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-13	0.2907	0.2068	4	No	21	0.2488	0.076	4.762	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-14A	0.05	0.04	4	No	21	0.04738	0.008657	66.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-15	0.8664	0.7707	4	No	21	0.8185	0.0867	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-16	0.15	0.058	4	No	21	0.1521	0.1838	9.524	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-17	0.1344	0.08396	4	No	21	0.1092	0.04573	4.762	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-19	0.3753	0.3247	4	No	21	0.35	0.04593	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-8	0.3423	0.2001	4	No	21	0.2712	0.1289	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-9	1.502	1.183	4	No	21	1.342	0.2886	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00021	0.001	No	18	0.0006617	0.0003936	55.56	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.001	No	18	0.0008644	0.0002679	77.78	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00045	0.001	No	18	0.000725	0.0002744	44.44	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00031	0.001	No	18	0.0007889	0.0003548	72.22	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.001	No	18	0.0009611	0.000165	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.001	No	18	0.0009039	0.0002797	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.001	No	18	0.0009183	0.0002387	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00016	0.001	No	18	0.0007628	0.0003937	72.22	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.001	No	18	0.0009522	0.0002027	94.44	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01439	0.007231	0.009	No	20	0.01141	0.007141	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.009	No	20	0.004465	0.001312	85	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.00777	0.006121	0.009	No	20	0.006785	0.001742	5	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0038	0.009	No	20	0.00445	0.001062	75	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-14A	0.005	0.0033	0.009	No	20	0.004155	0.001305	65	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-15	0.007217	0.005553	0.009	No	20	0.006385	0.001465	10	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01033	0.006625	0.009	No	20	0.00848	0.003266	5	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005656	0.004724	0.009	No	20	0.00519	0.0008207	5	None	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.0558	0.0477	0.009	Yes	20	0.05175	0.007129	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.017	0.013	0.009	Yes	20	0.01703	0.01007	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03808	0.03257	0.009	Yes	20	0.03533	0.004846	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.015	No	20	0.01359	0.004334	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.015	No	20	0.01364	0.004187	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.00095	0.015	No	20	0.01092	0.006442	70	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0016	0.015	No	20	0.004051	0.004795	15	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.015	No	20	0.0143	0.00313	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.006568	0.003266	0.015	No	20	0.005195	0.003435	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.005288	0.002606	0.015	No	20	0.004176	0.002528	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.015	No	20	0.006085	0.006713	35	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.006065	0.003563	0.015	No	20	0.005266	0.003413	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	20	0.004765	0.001049	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	20	0.004774	0.001008	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	20	0.004855	0.0006485	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	20	0.004765	0.001051	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	20	0.004775	0.001006	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01076	0.005502	0.05	No	20	0.008133	0.004632	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	20	0.004768	0.001038	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.003879	0.003149	0.05	No	20	0.003514	0.0006431	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-9	0.002822	0.002226	0.05	No	20	0.002524	0.0005245	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	20	0.0009543	0.0002046	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	20	0.000958	0.0001878	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00014	0.002	No	20	0.0005385	0.0004292	45	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00017	0.002	No	20	0.000503	0.0004179	40	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	20	0.000959	0.0001834	95	None	No	0.01	NP (NDs)

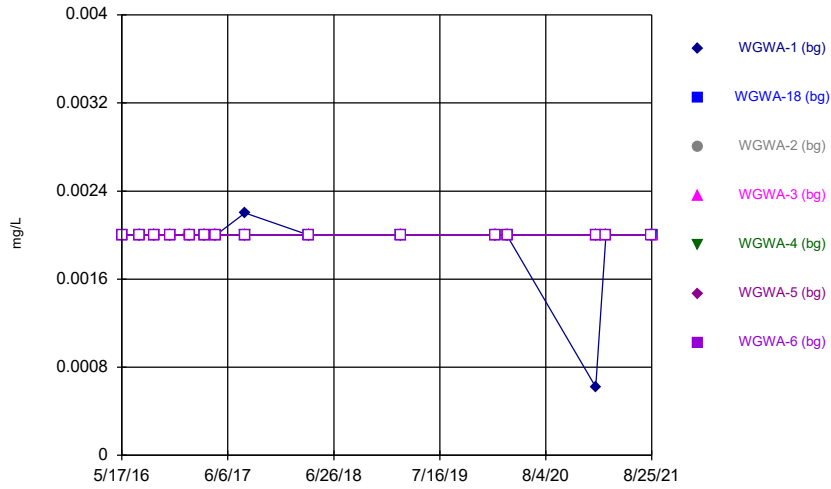
Appendix IV Trend Test - All Results (No Significant)

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/14/2021, 2:17 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lithium (mg/L)	WGWA-1 (bg)	0	-2	-74	No	19	42.11	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-18 (bg)	0	0	74	No	19	84.21	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-2 (bg)	0.00006772	9	74	No	19	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-3 (bg)	0	4	74	No	19	84.21	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-4 (bg)	0.0001559	36	74	No	19	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-5 (bg)	0	-4	-63	No	17	94.12	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-6 (bg)	0.0001185	33	68	No	18	5.556	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWA-7 (bg)	0	4	74	No	19	94.74	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWC-19	0.001479	47	81	No	20	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWC-8	-0.0008117	-59	-81	No	20	0	n/a	n/a	0.01	NP
Lithium (mg/L)	WGWC-9	-0.0003057	-18	-81	No	20	0	n/a	n/a	0.01	NP

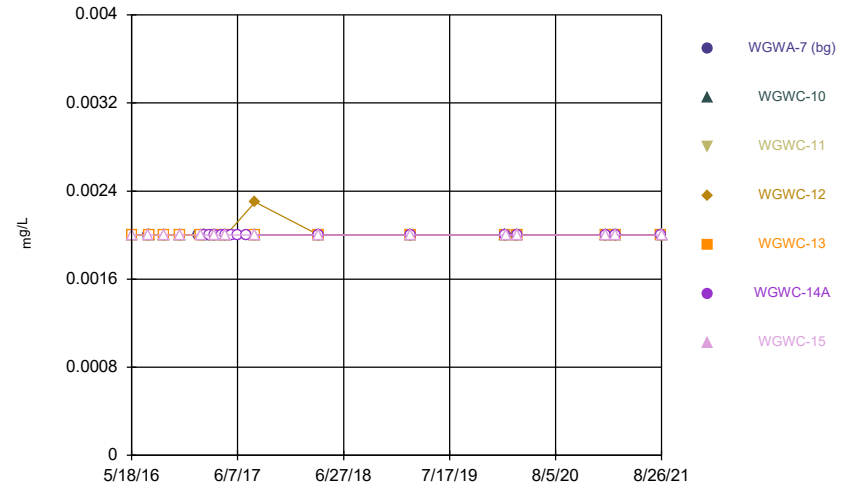
FIGURE A.

Time Series



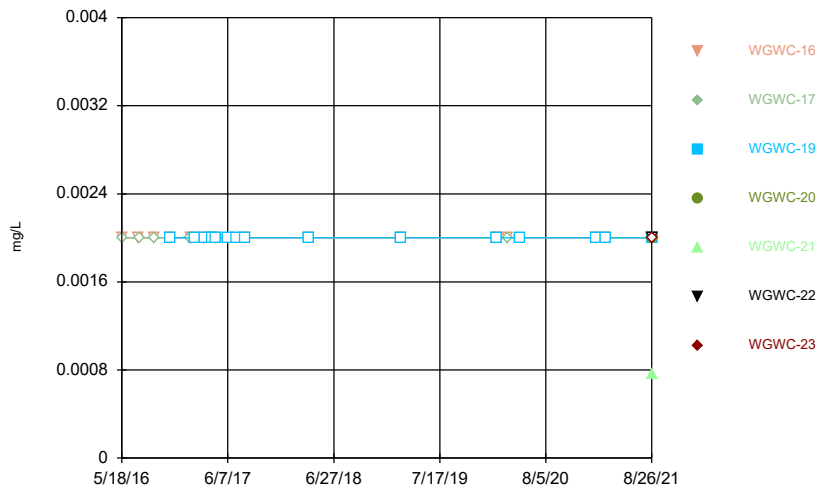
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



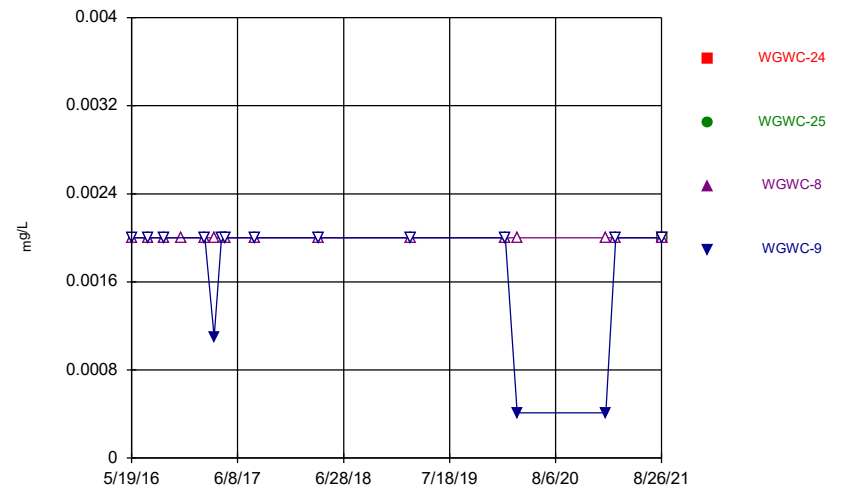
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



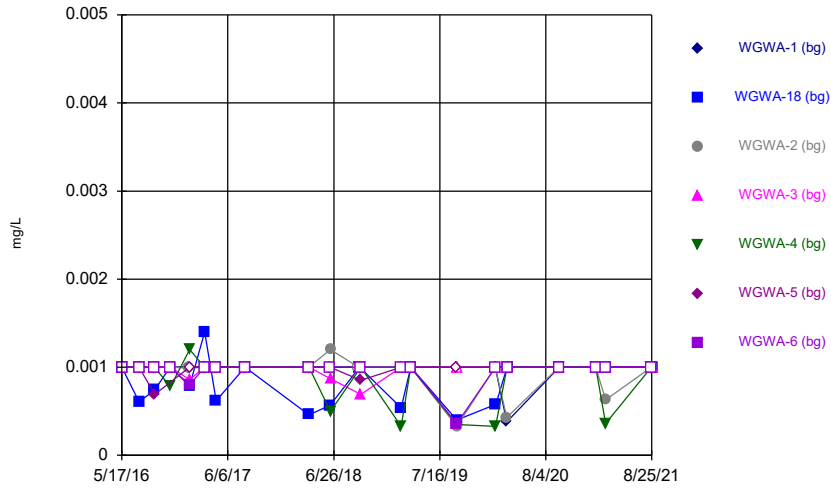
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



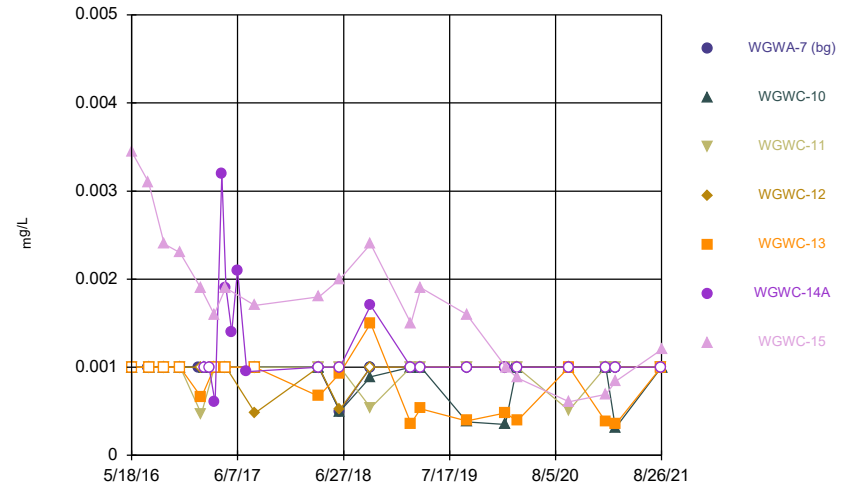
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



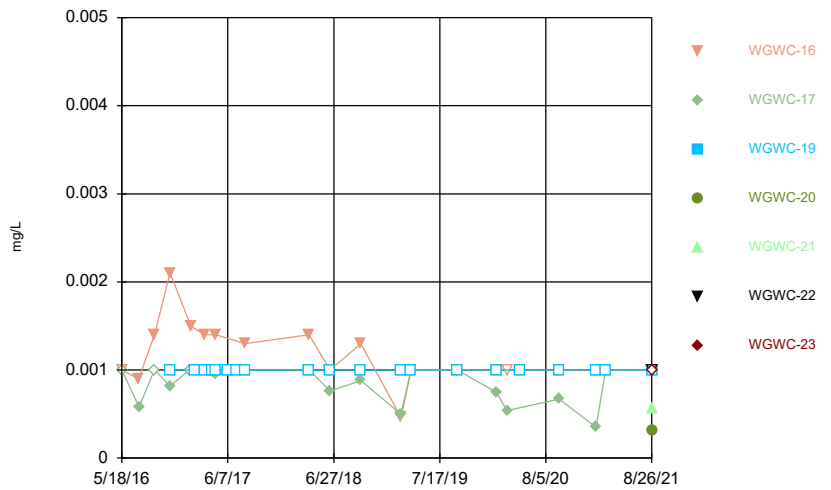
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



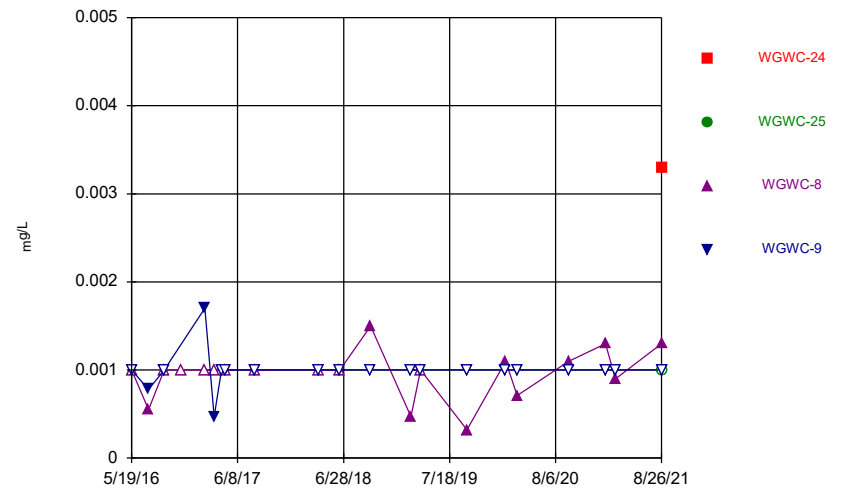
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



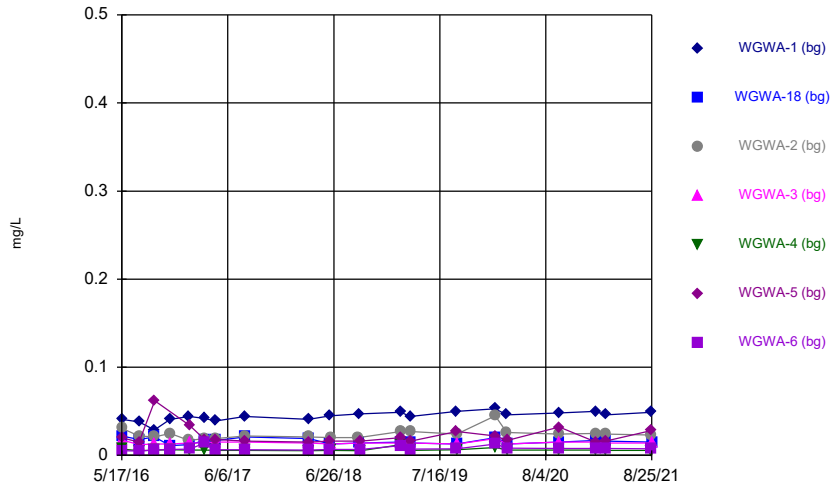
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



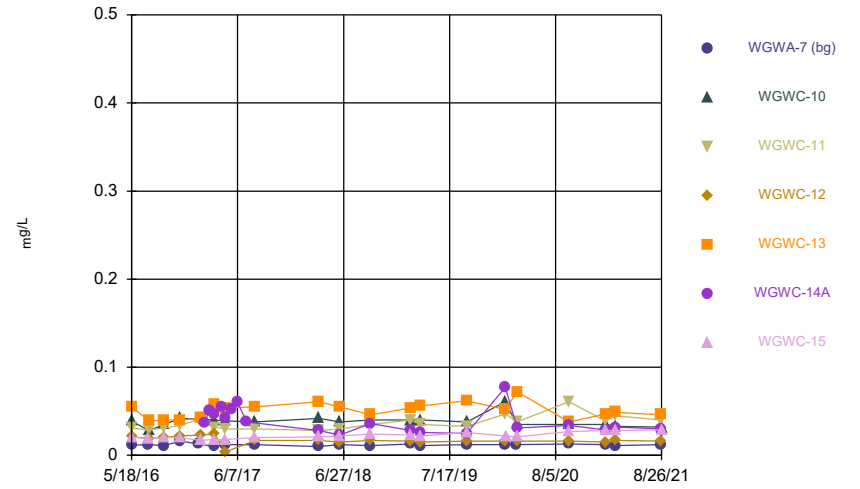
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



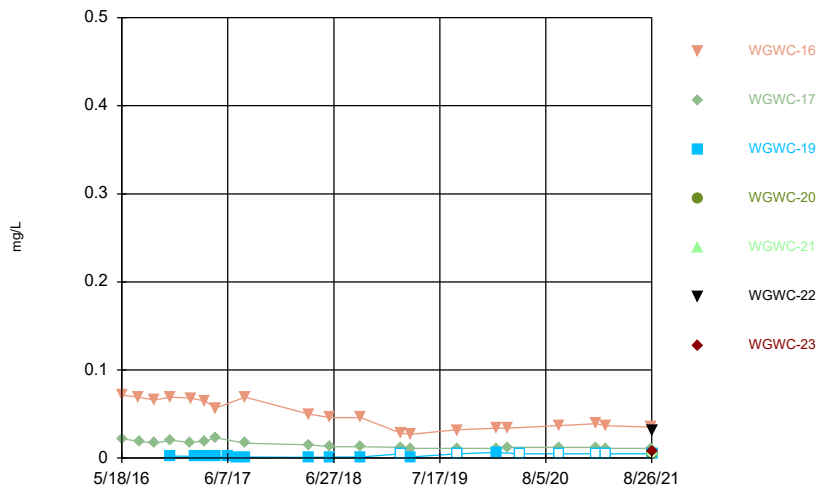
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



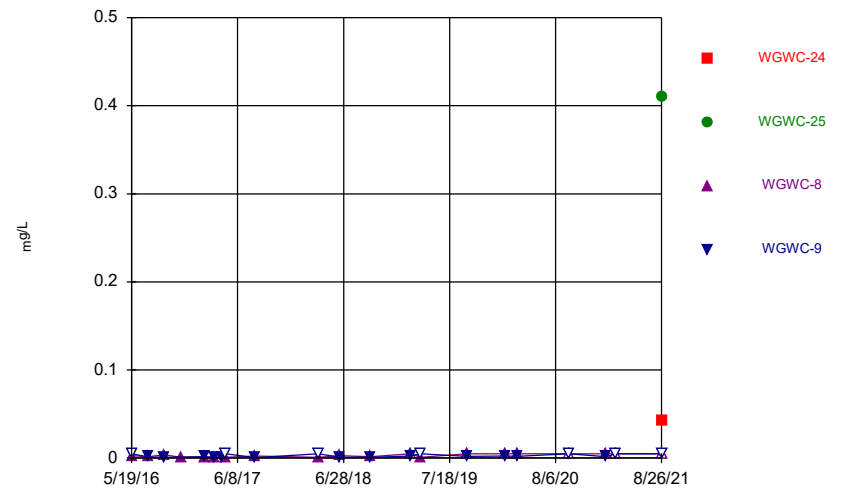
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



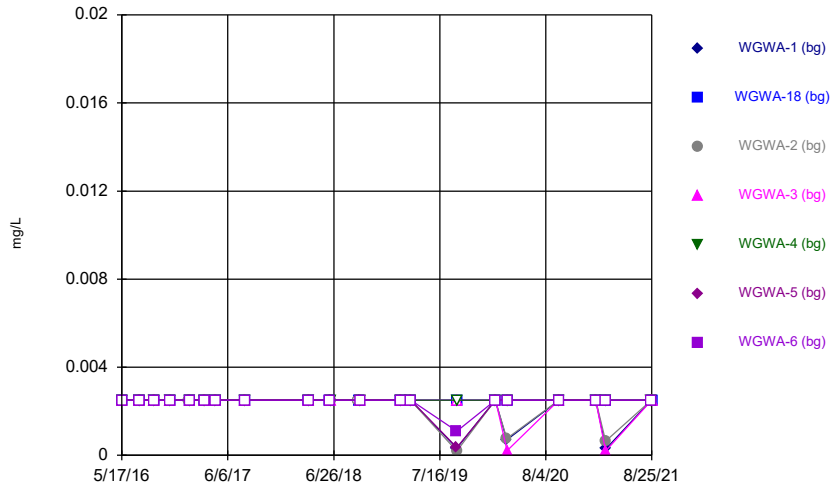
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



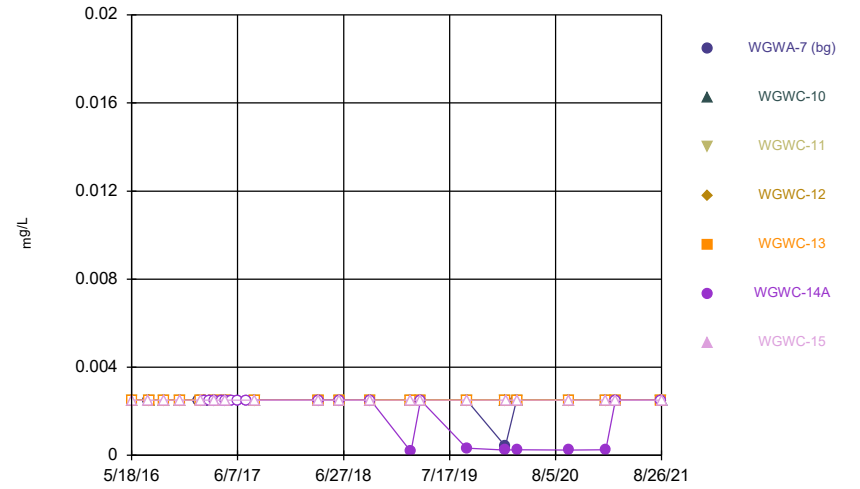
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



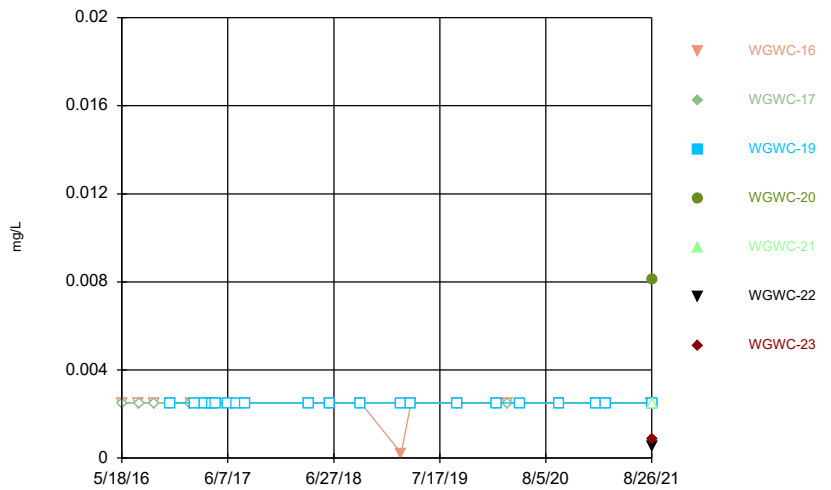
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



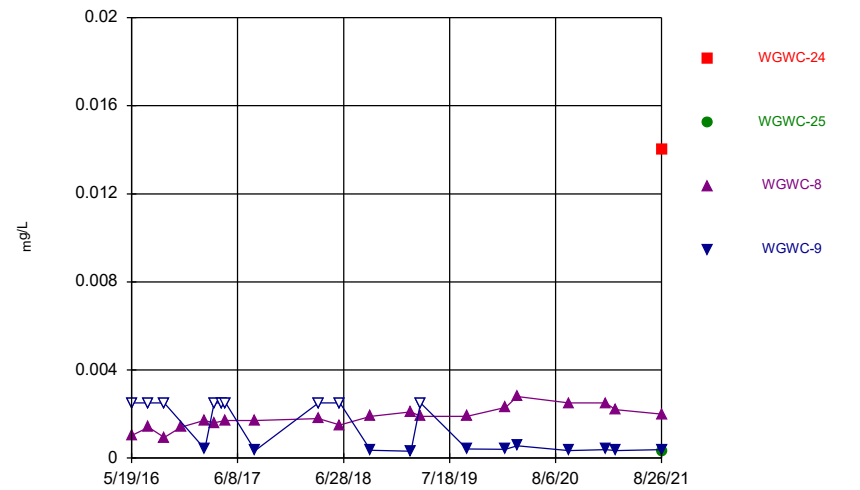
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



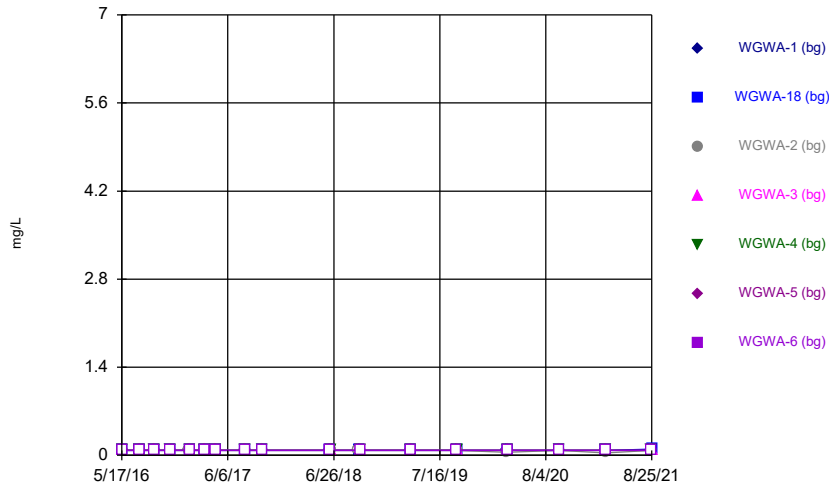
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



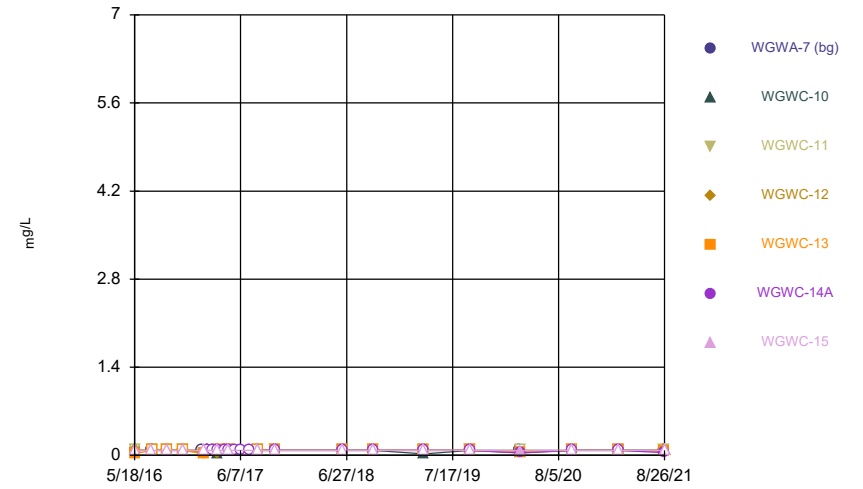
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



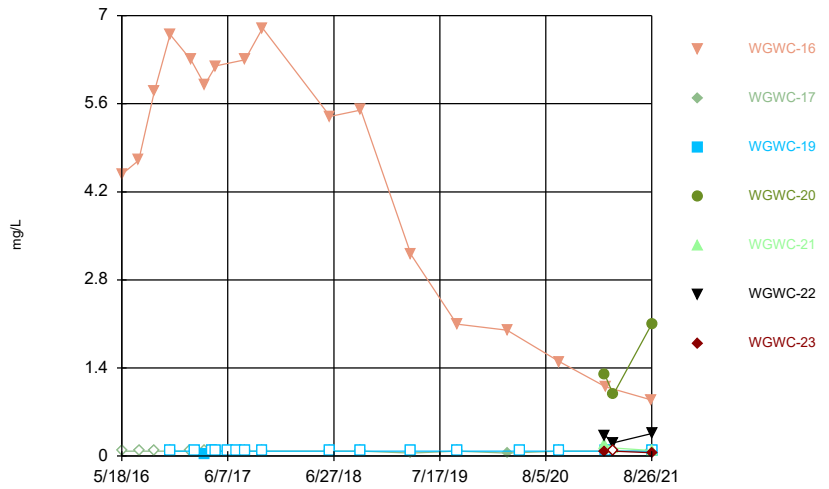
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



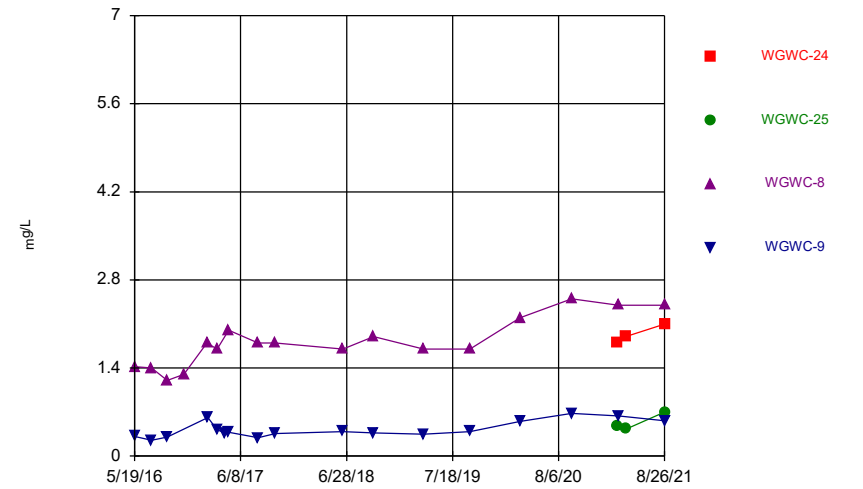
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



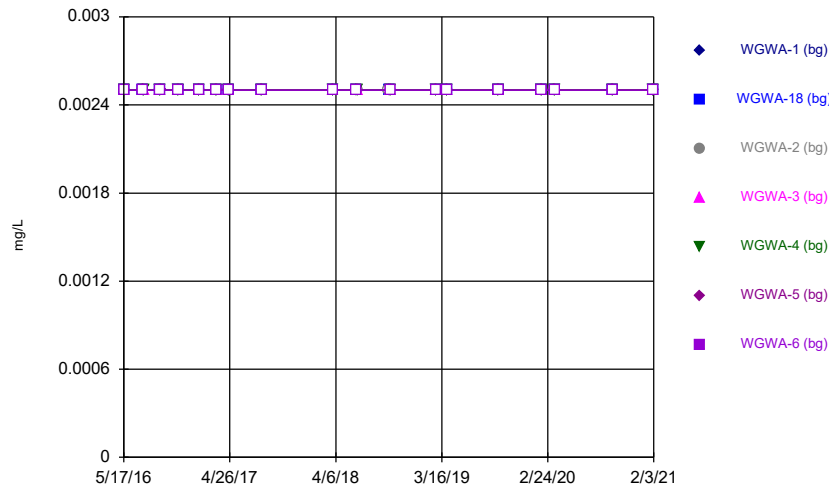
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Time Series



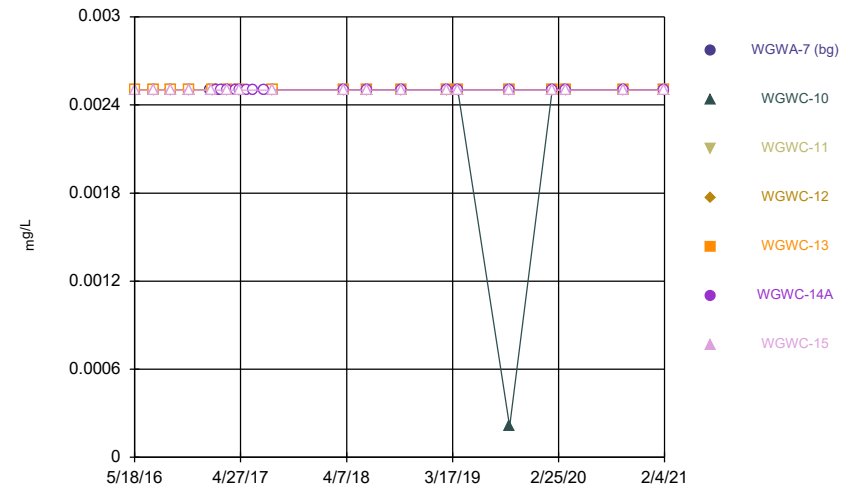
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Time Series



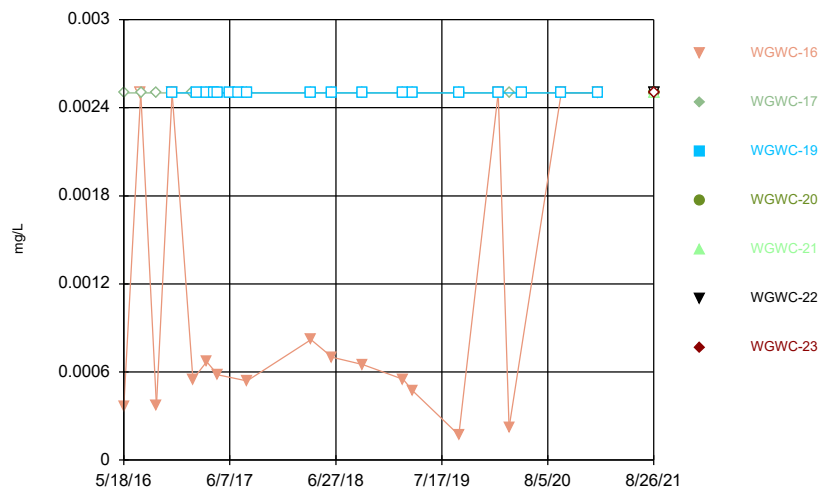
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



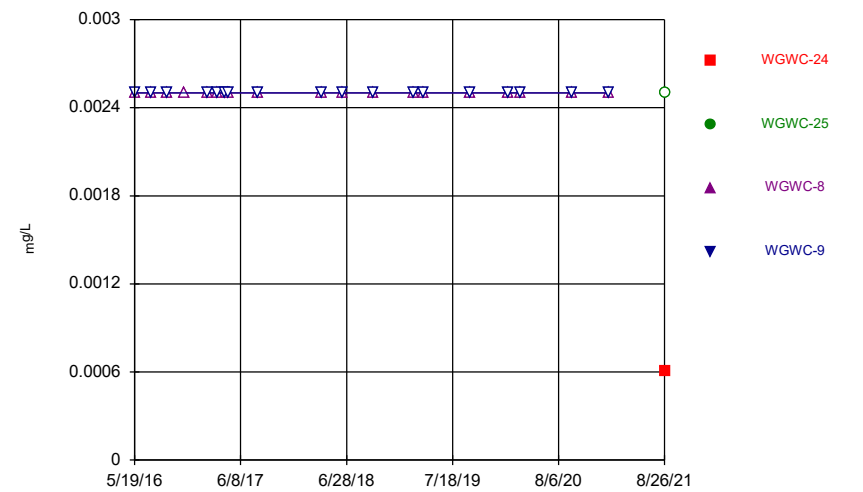
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



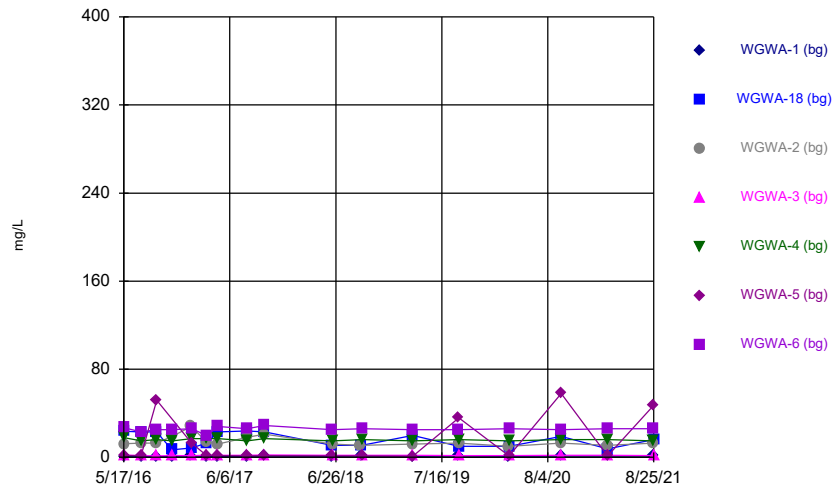
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



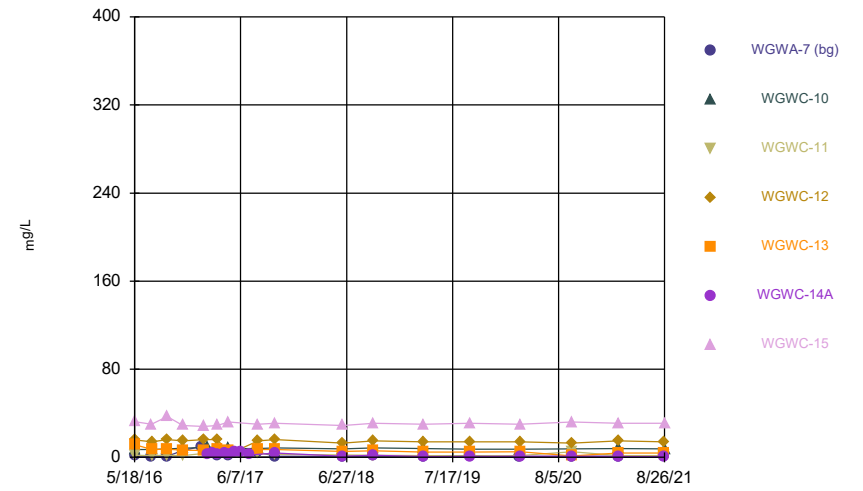
Constituent: Cadmium Analysis Run 10/15/2021 4:18 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



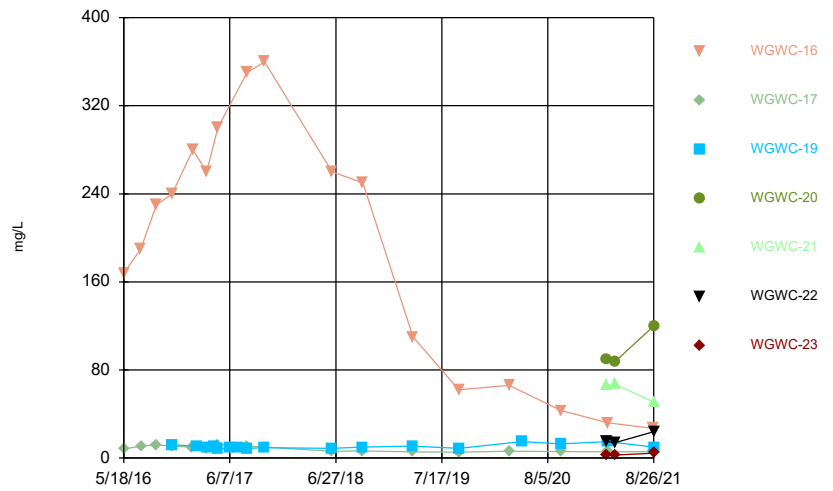
Constituent: Calcium, total Analysis Run 10/15/2021 4:18 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



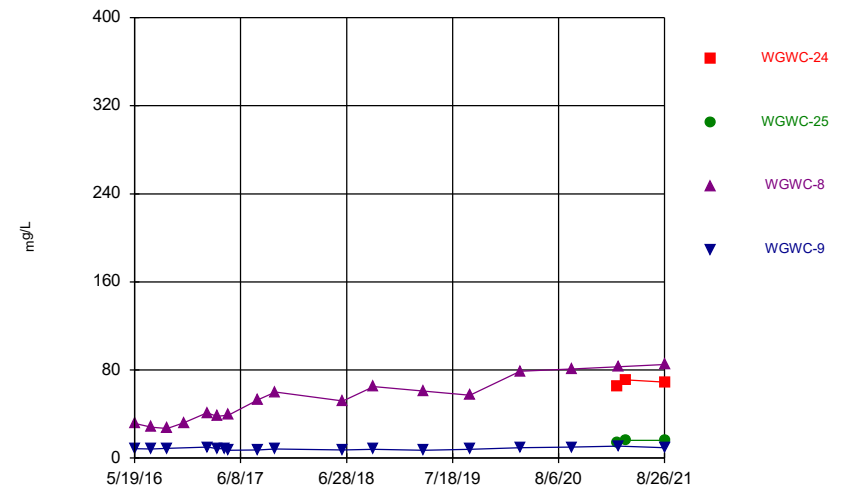
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



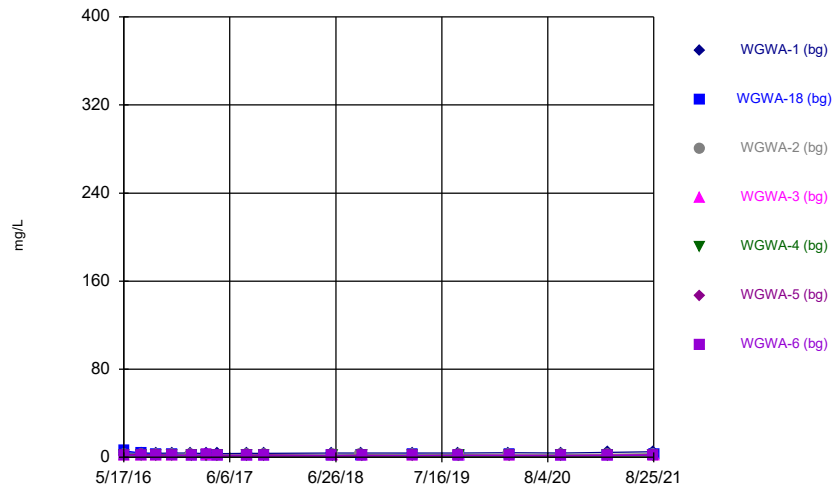
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



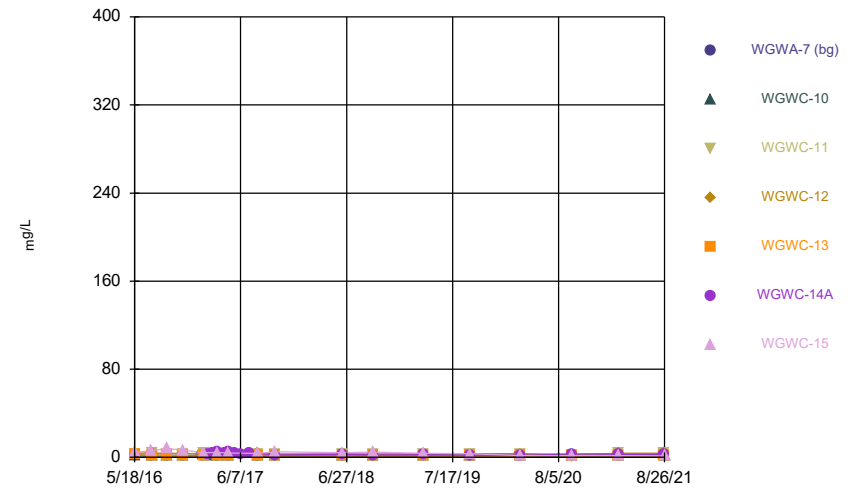
Constituent: Calcium, total Analysis Run 10/15/2021 4:18 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



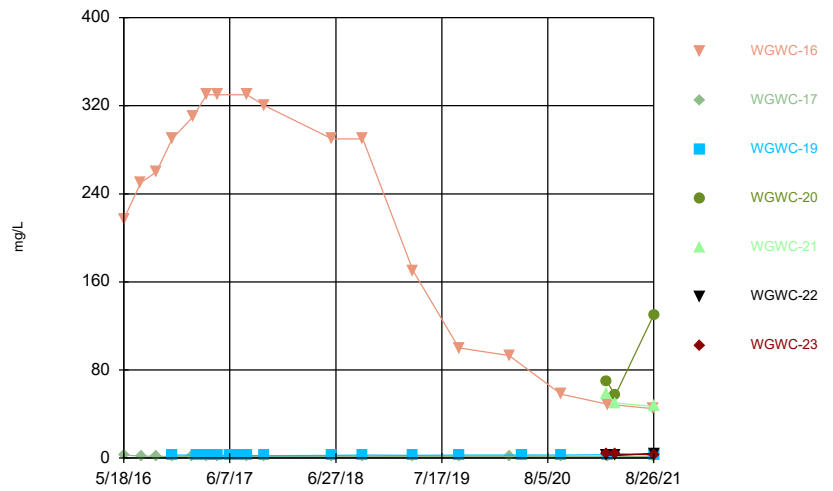
Constituent: Chloride, Total Analysis Run 10/15/2021 4:18 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



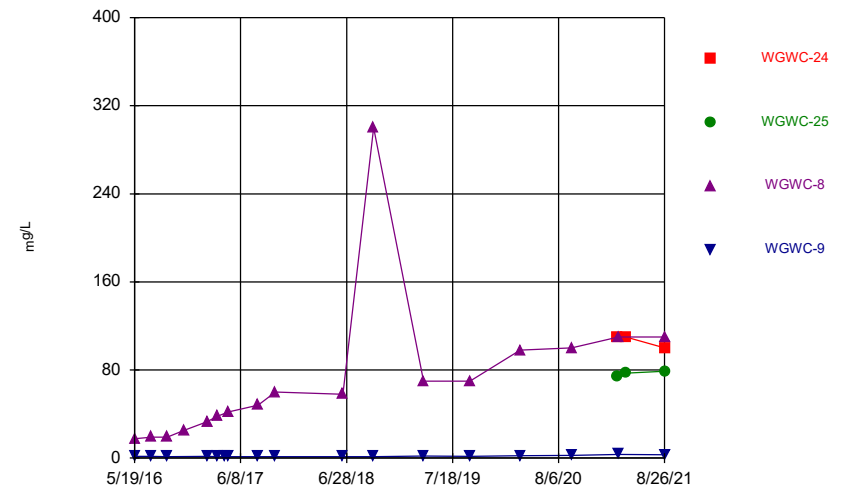
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



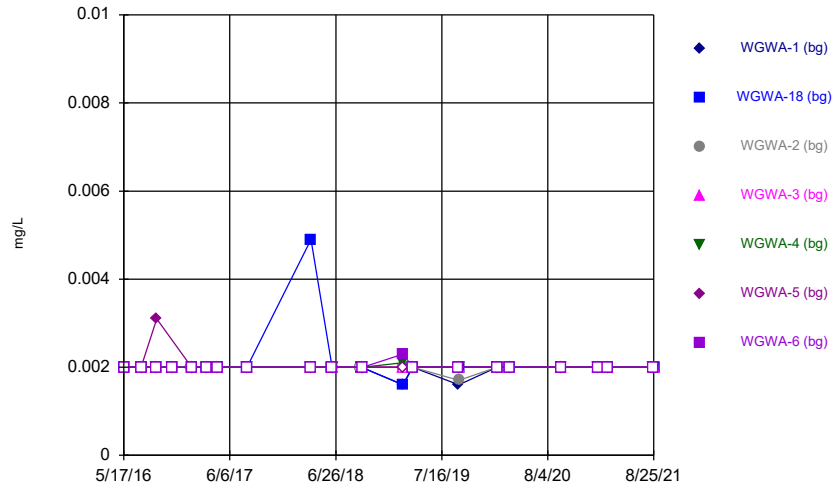
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



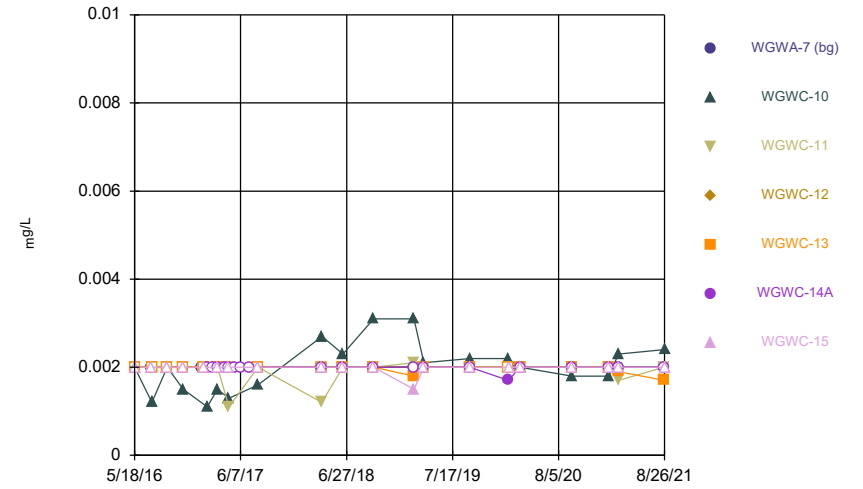
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



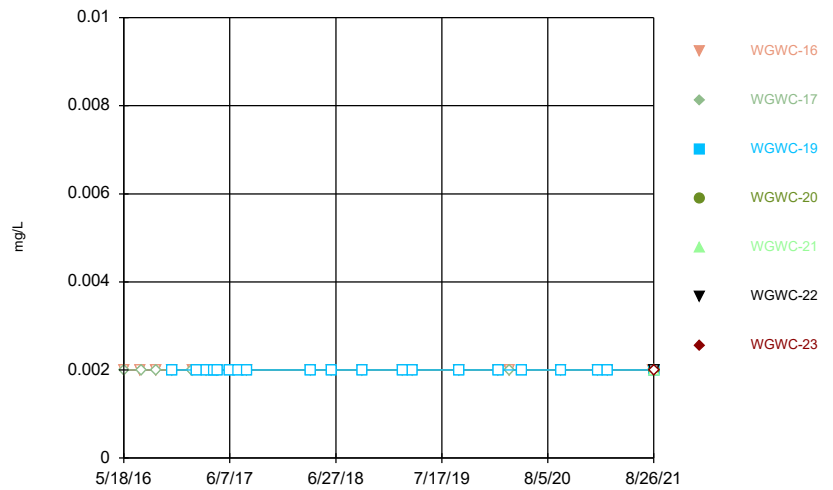
Constituent: Chromium Analysis Run 10/15/2021 4:18 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



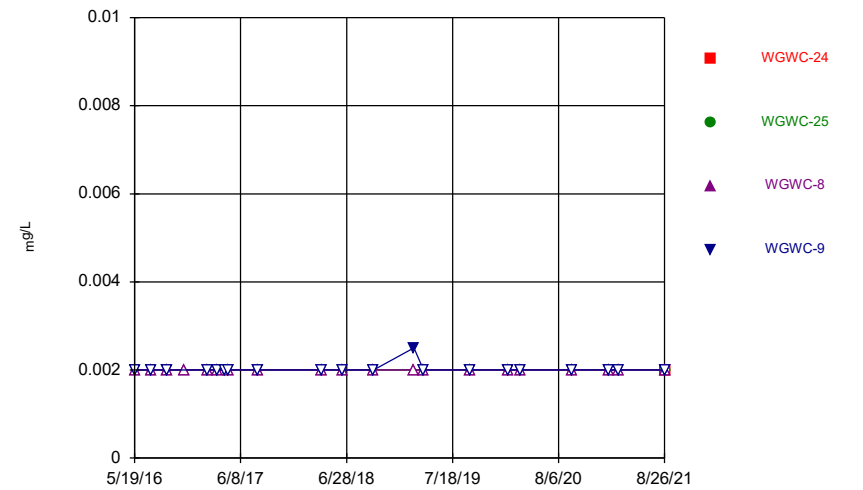
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



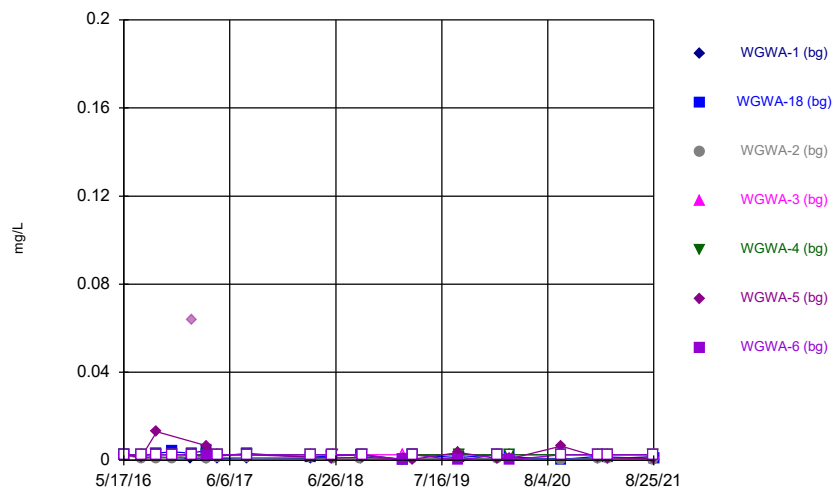
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



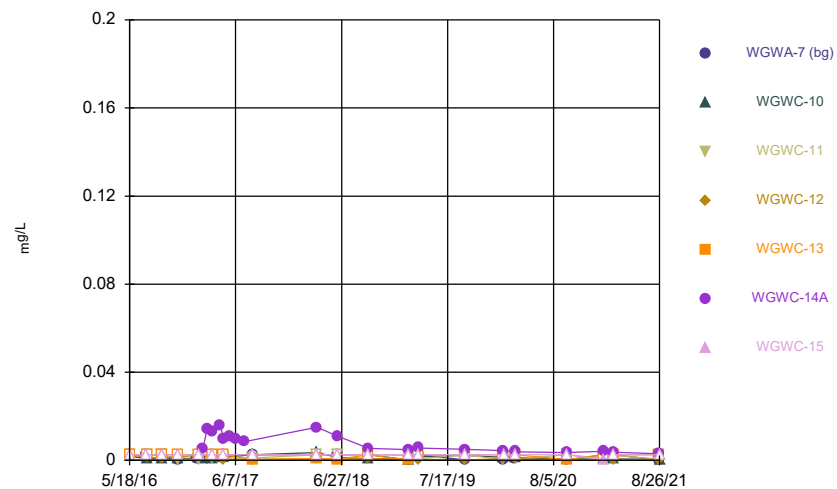
Constituent: Chromium Analysis Run 10/15/2021 4:18 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



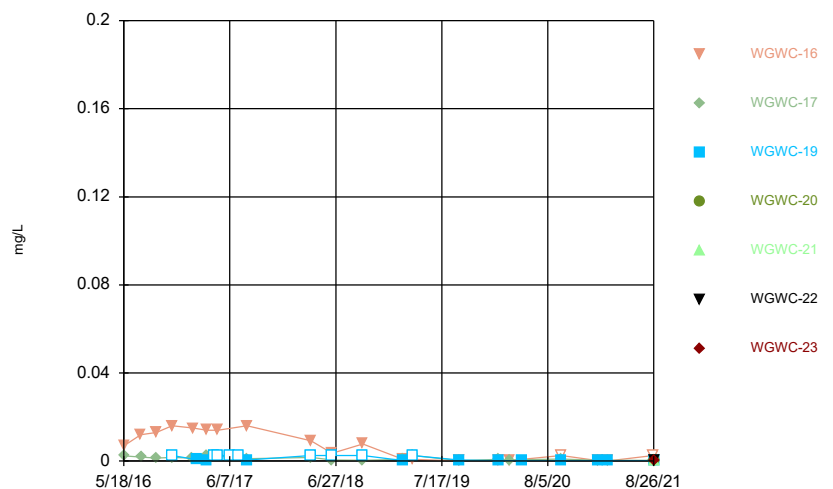
Constituent: Cobalt Analysis Run 10/15/2021 4:18 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



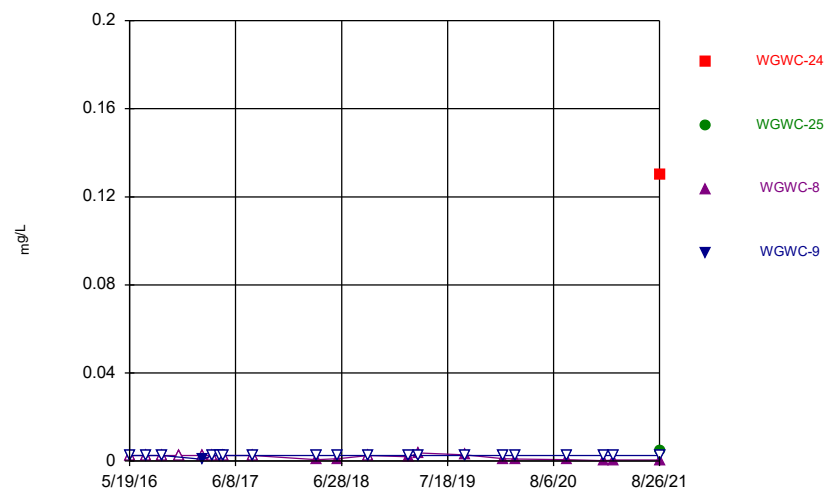
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



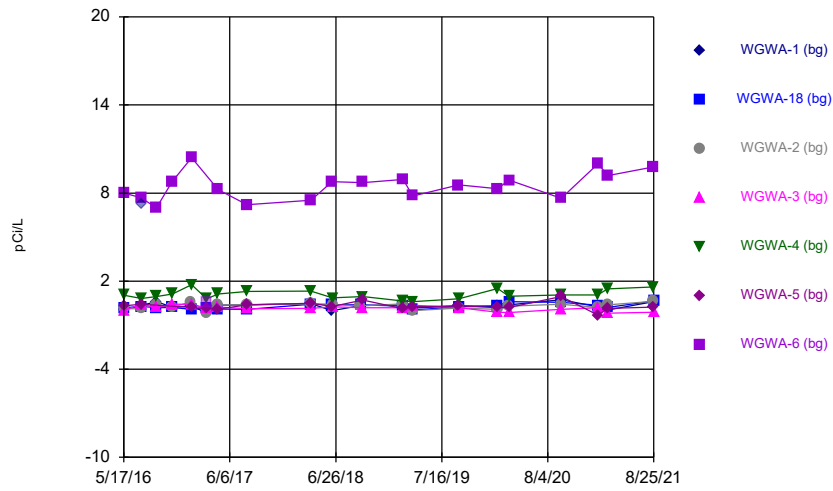
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



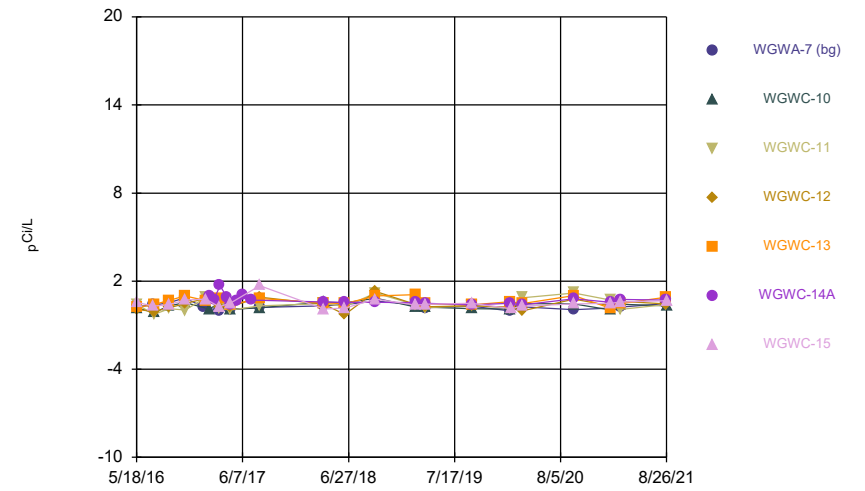
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



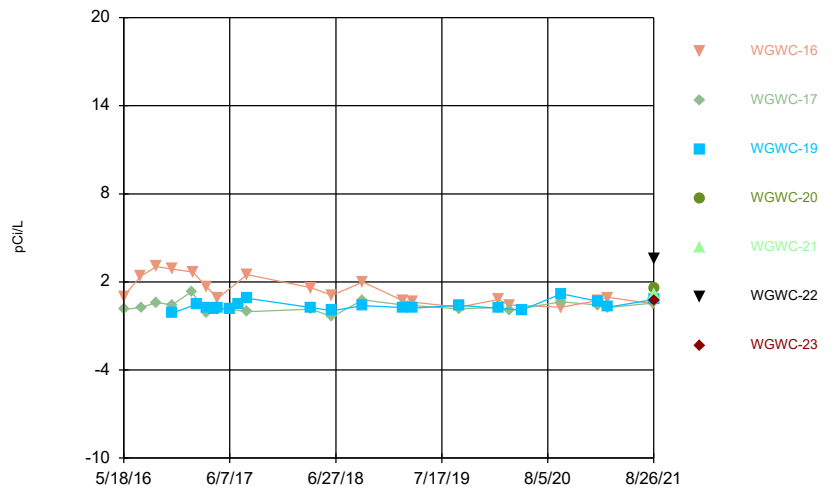
Constituent: Combined Radium 226 + 228 Analysis Run 10/15/2021 4:18 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



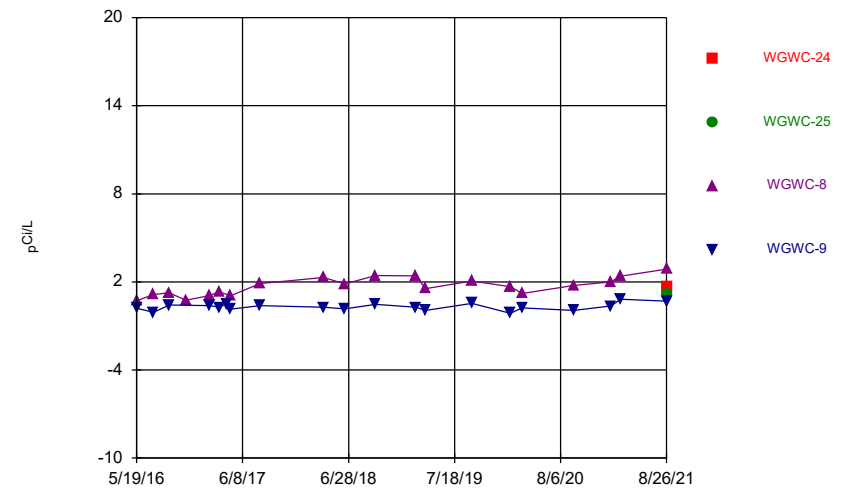
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



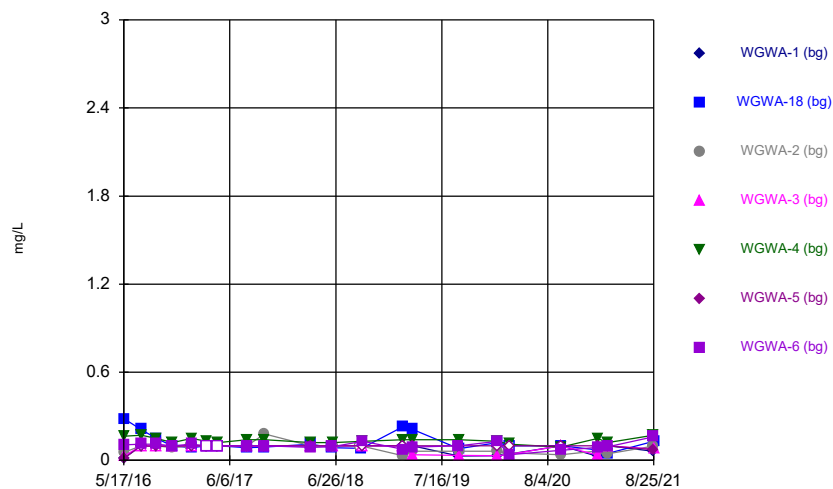
Constituent: Combined Radium 226 + 228 Analysis Run 10/15/2021 4:18 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



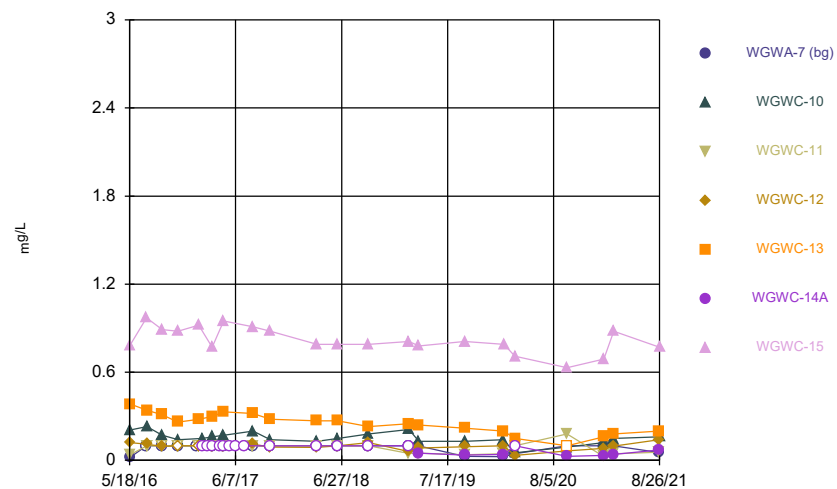
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



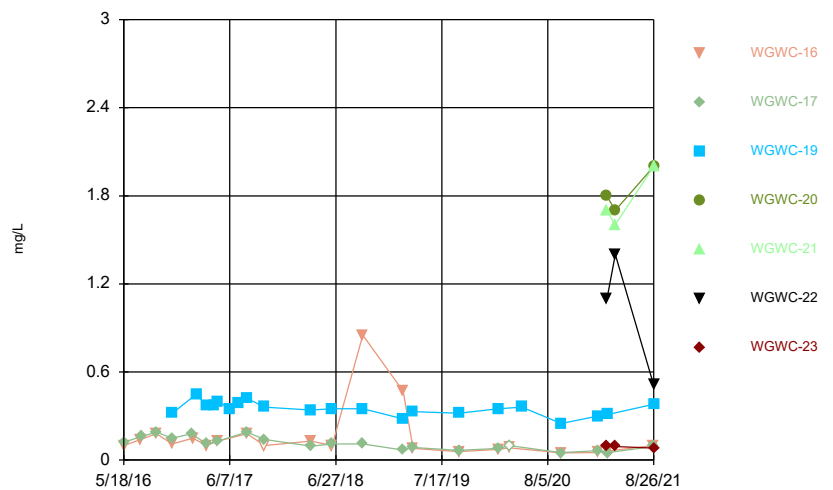
Constituent: Fluoride, total Analysis Run 10/15/2021 4:18 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



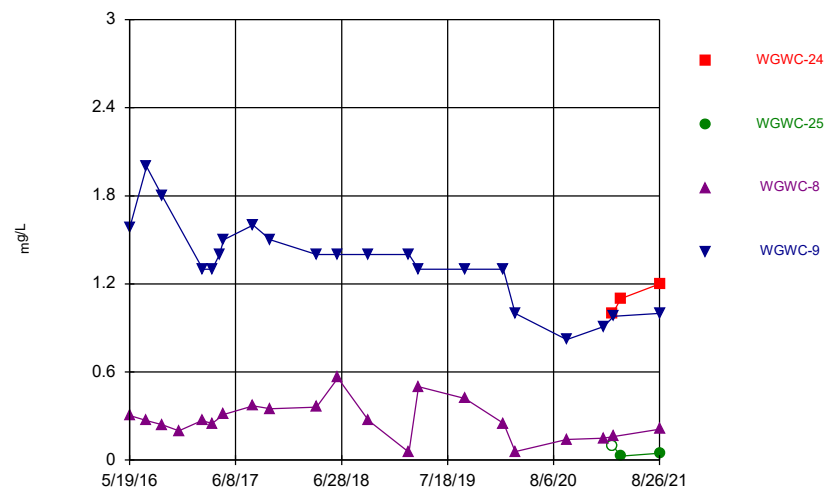
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



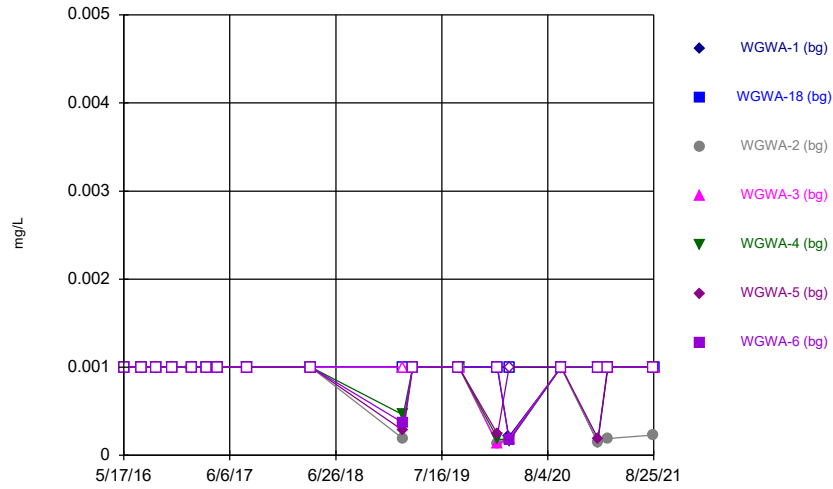
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



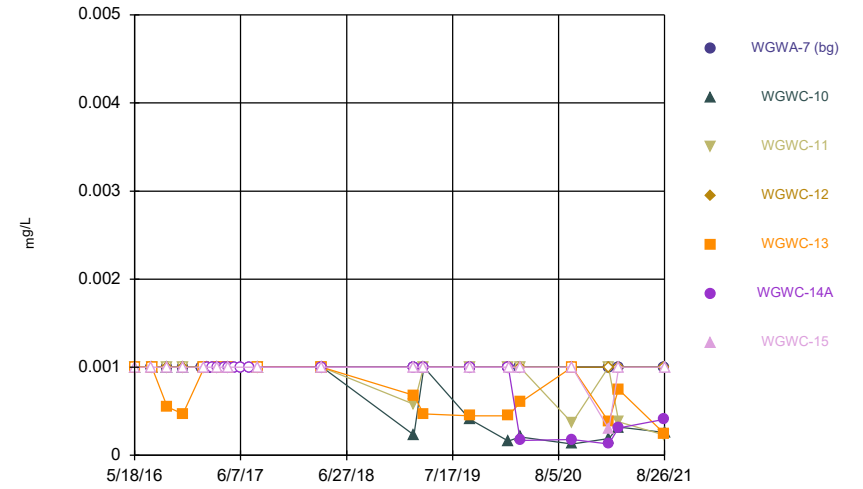
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



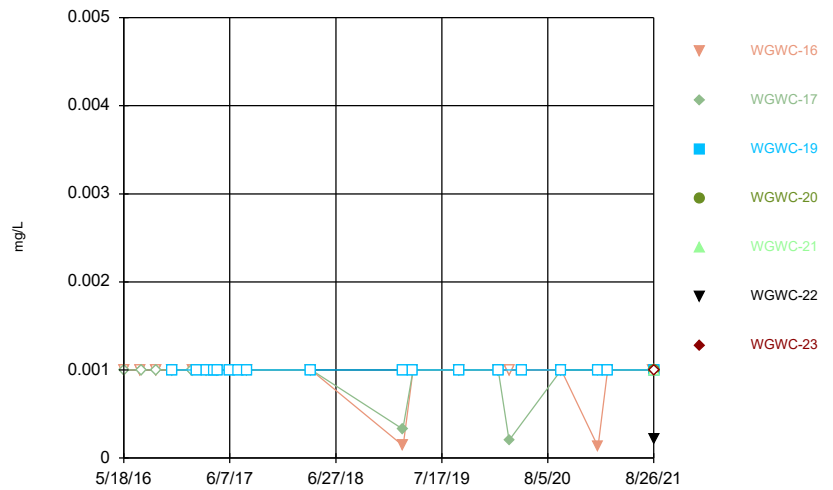
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



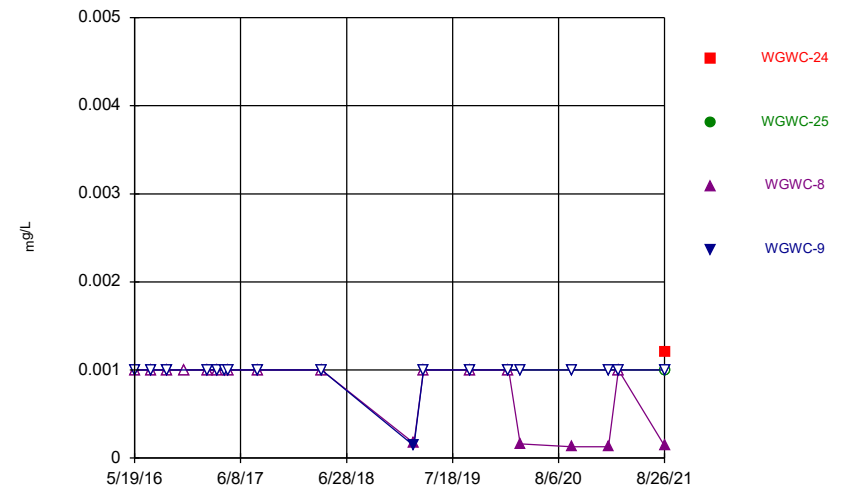
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



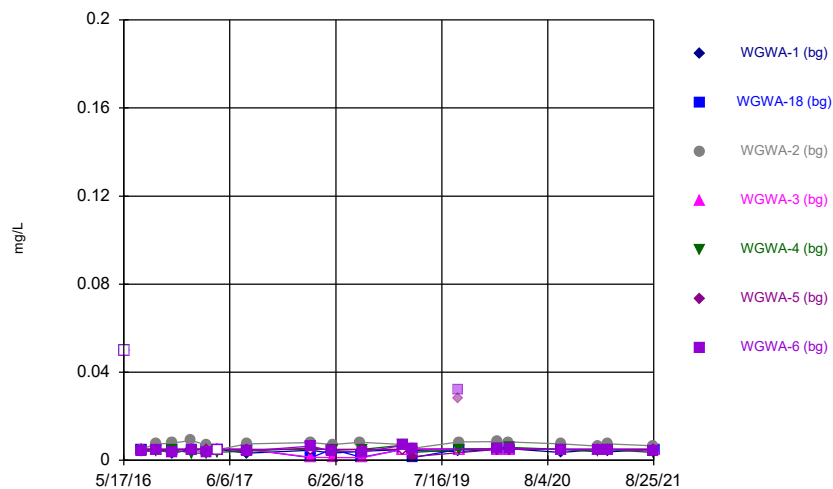
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



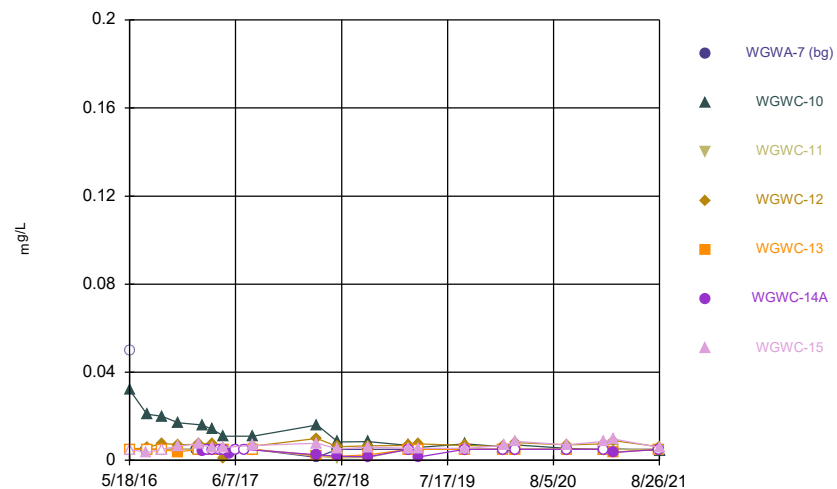
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



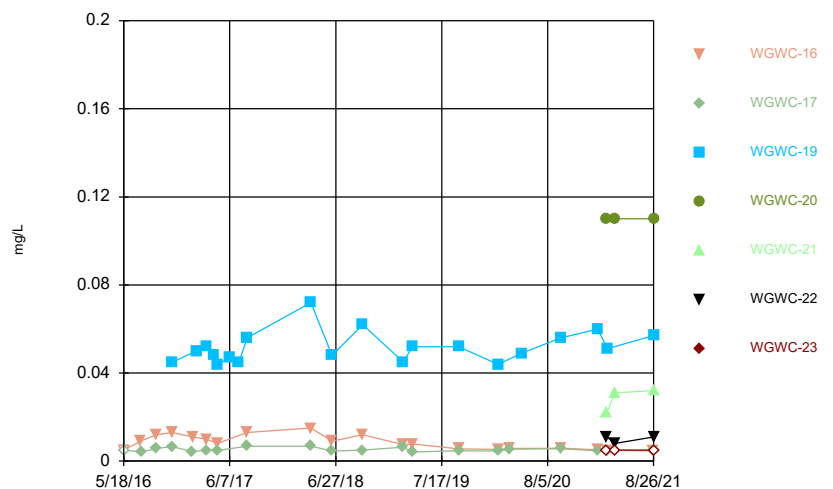
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



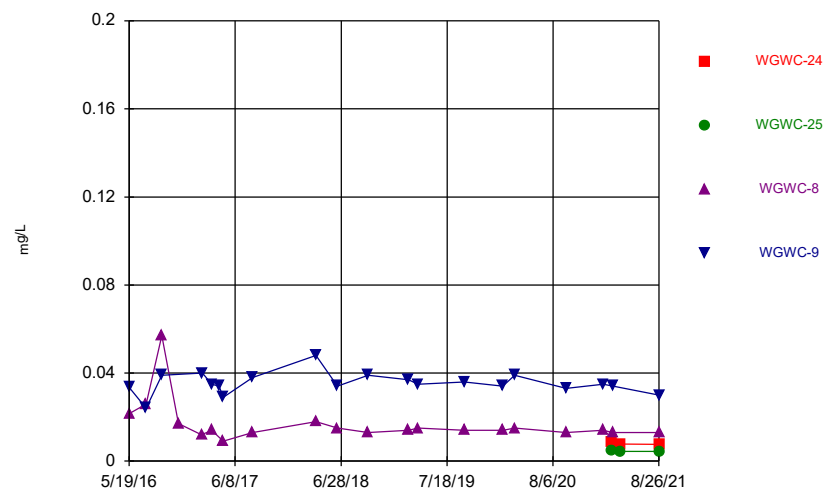
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



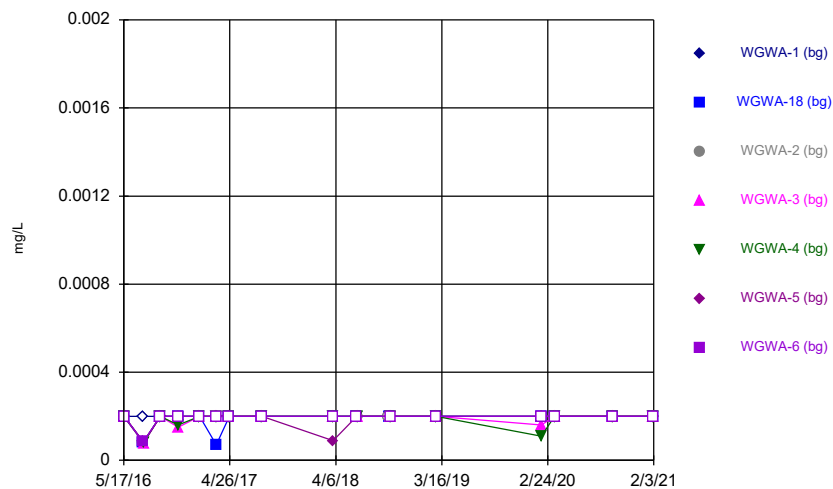
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



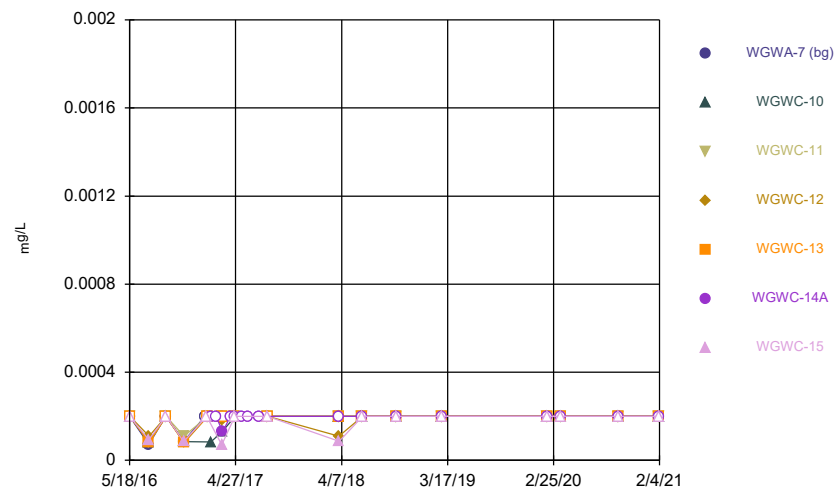
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



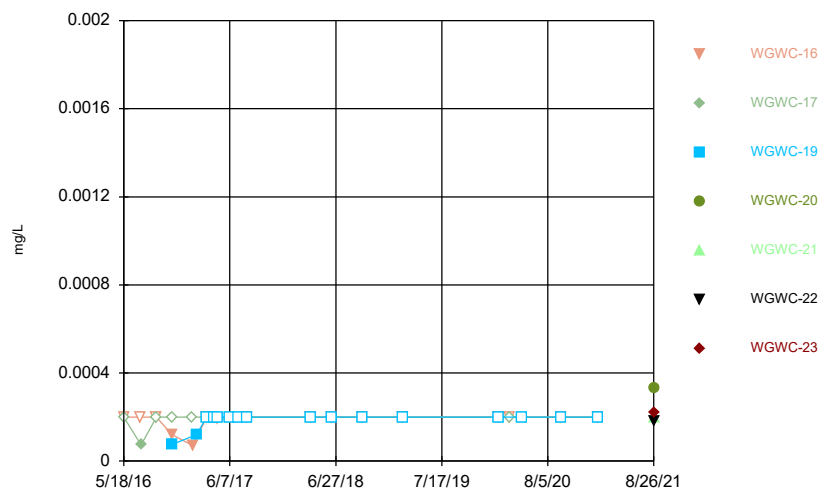
Constituent: Mercury Analysis Run 10/15/2021 4:19 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



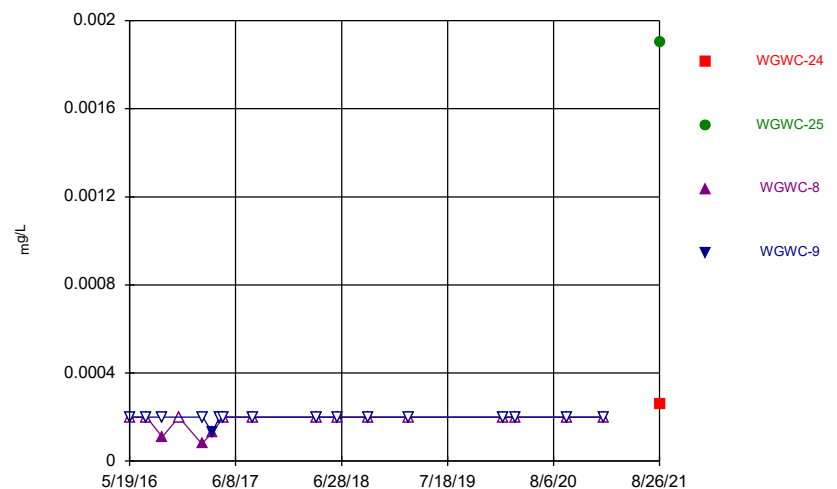
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



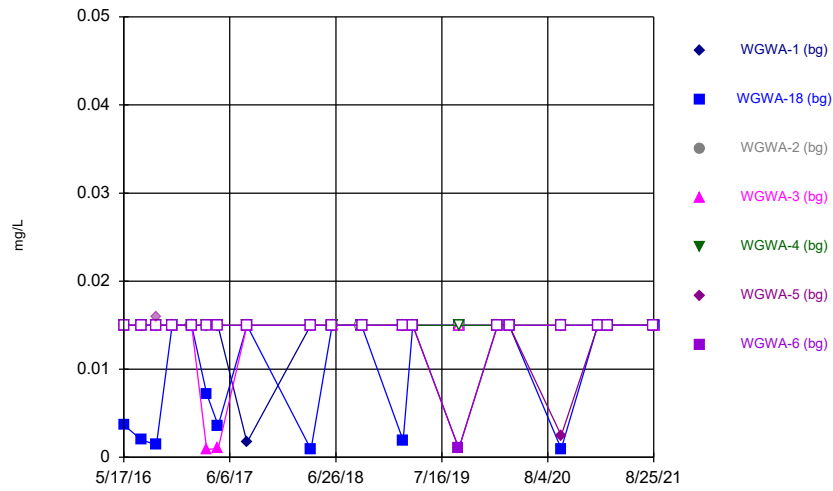
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



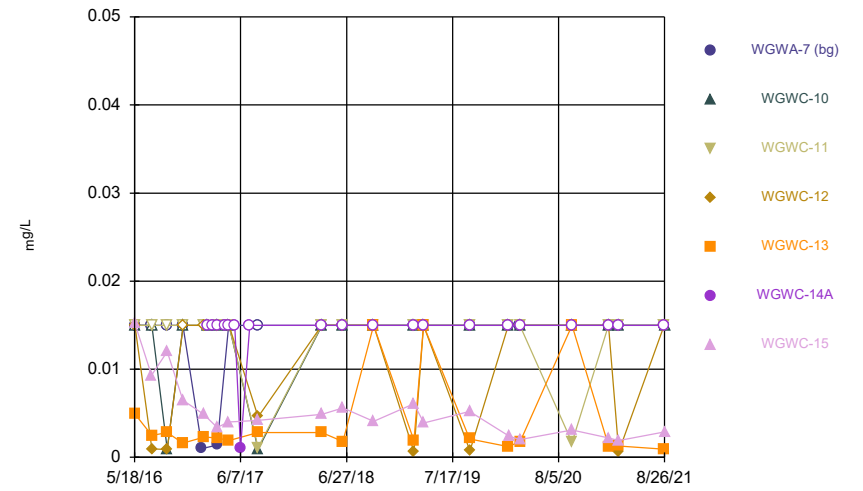
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



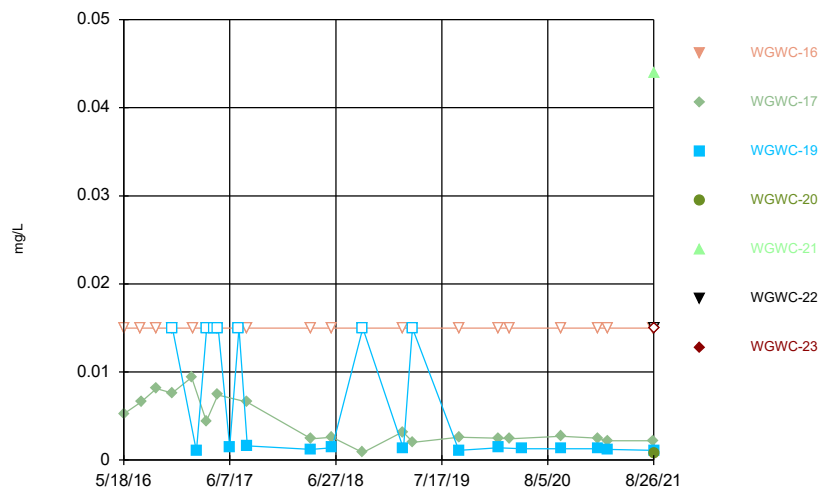
Constituent: Molybdenum Analysis Run 10/15/2021 4:19 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



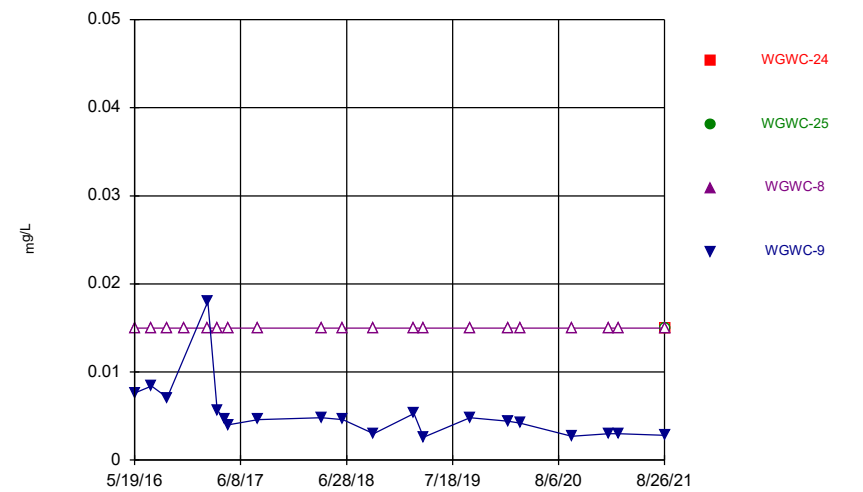
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



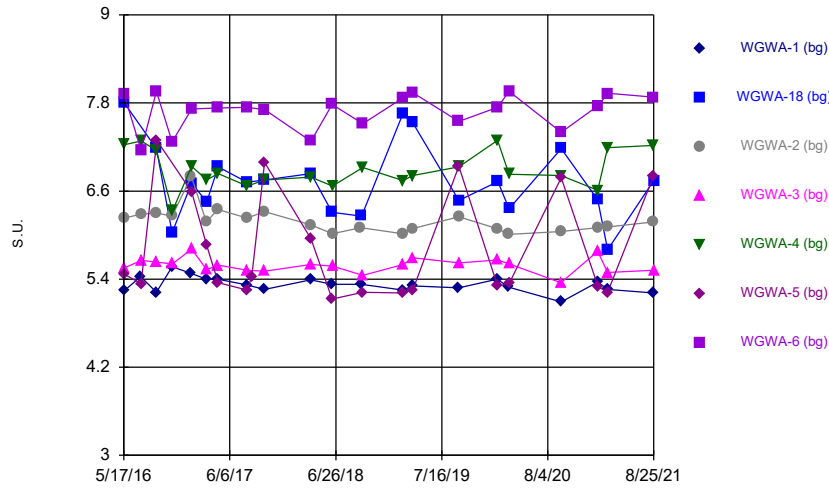
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



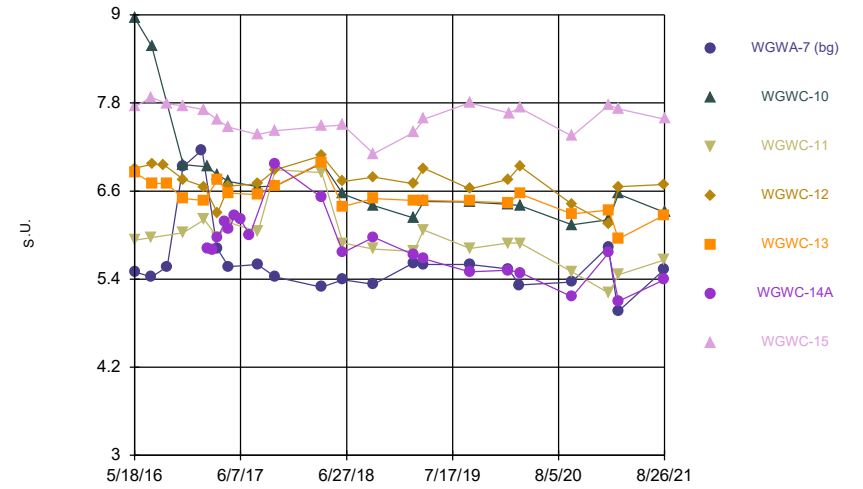
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



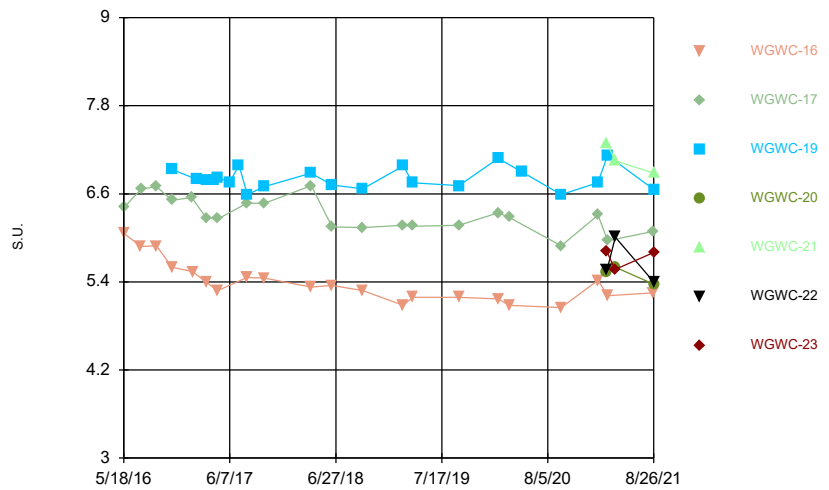
Constituent: pH, Field Analysis Run 10/15/2021 4:19 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



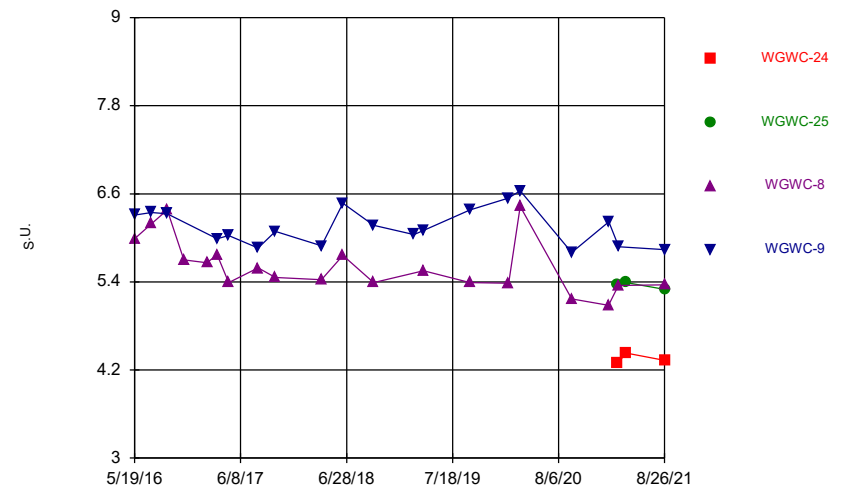
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



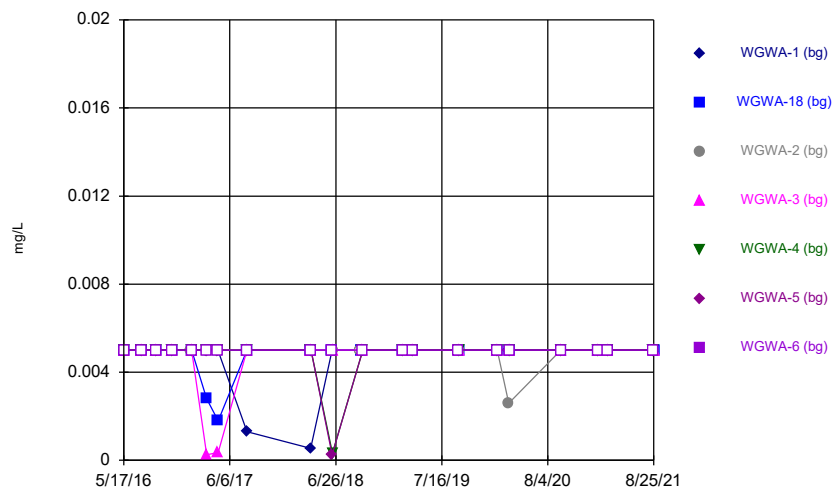
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



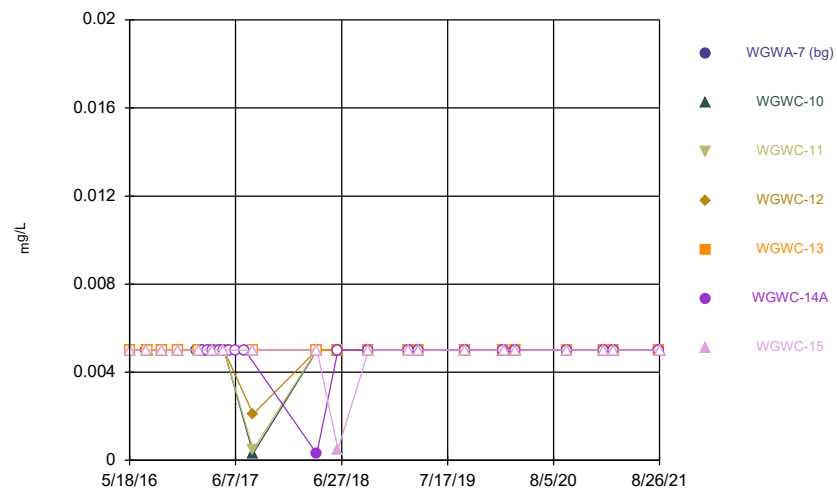
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



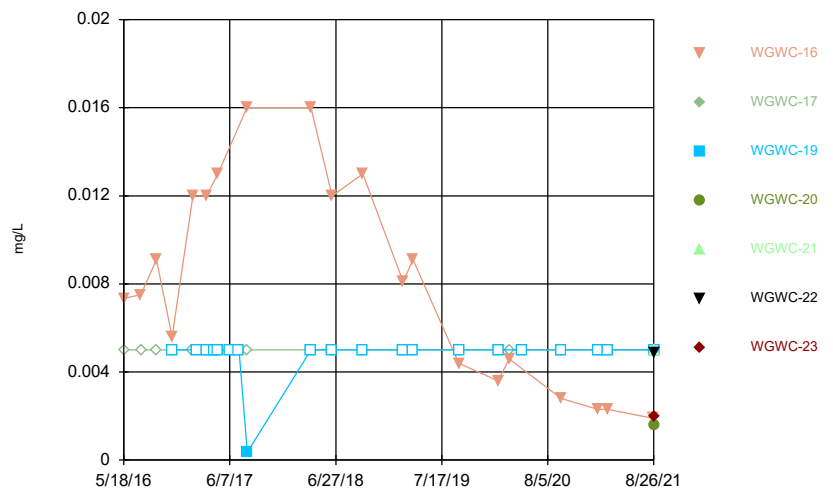
Constituent: Selenium Analysis Run 10/15/2021 4:19 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



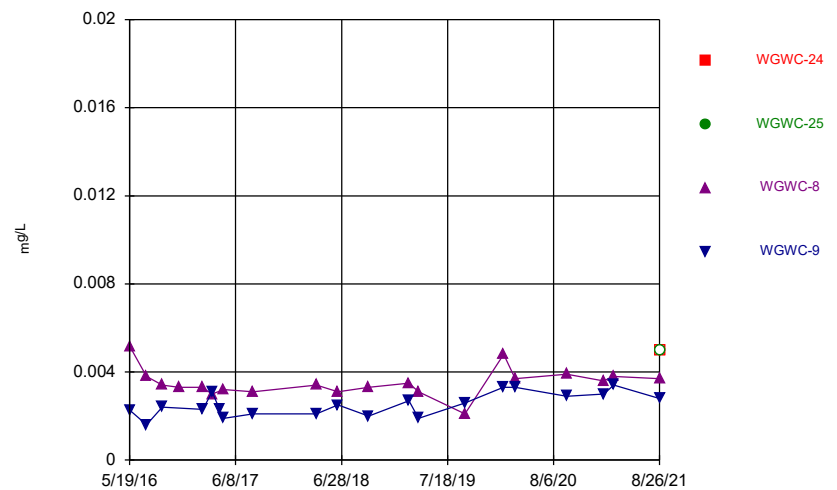
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



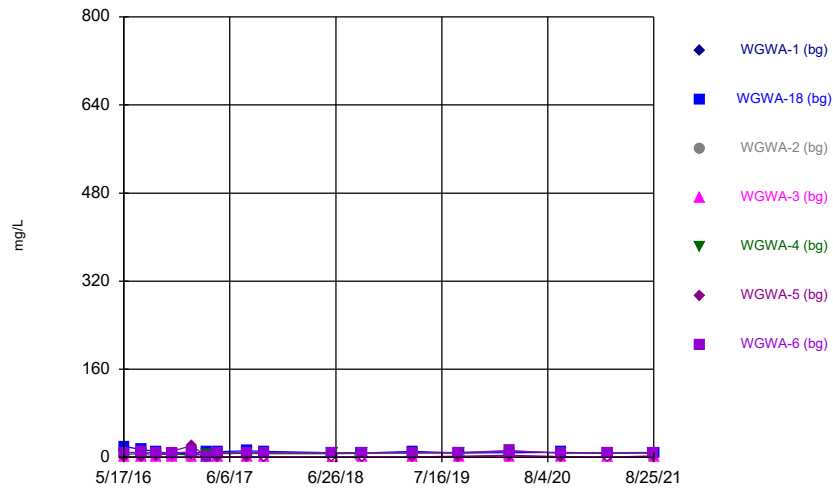
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



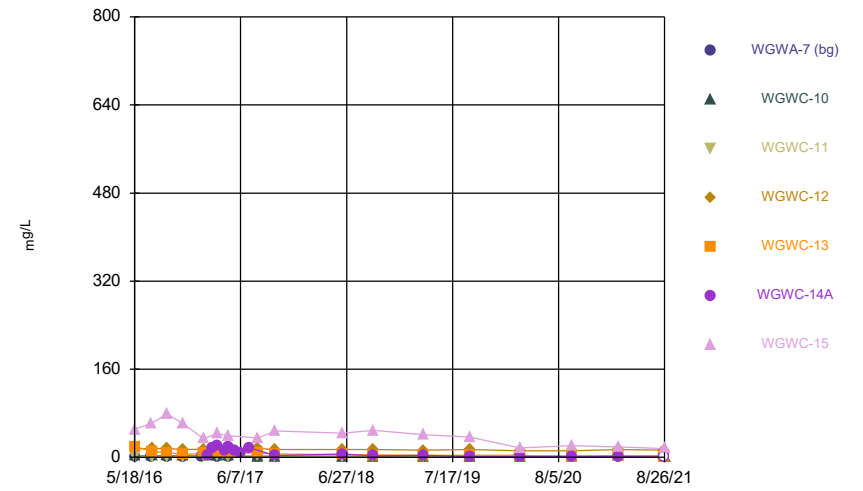
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



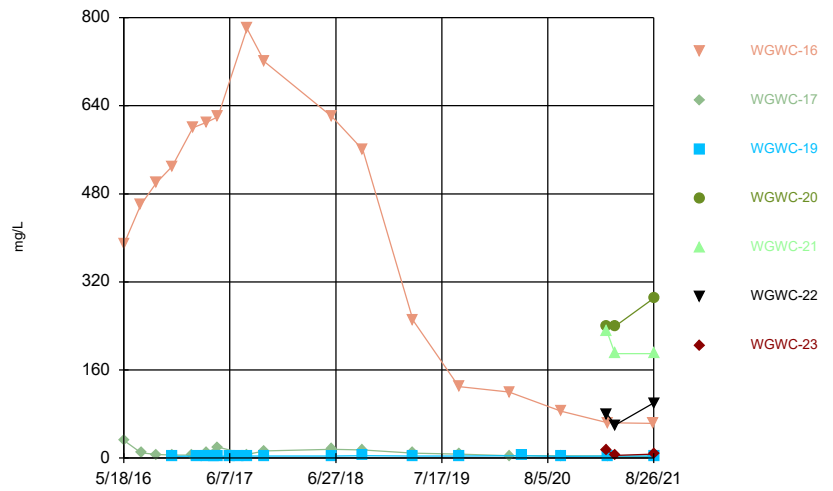
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



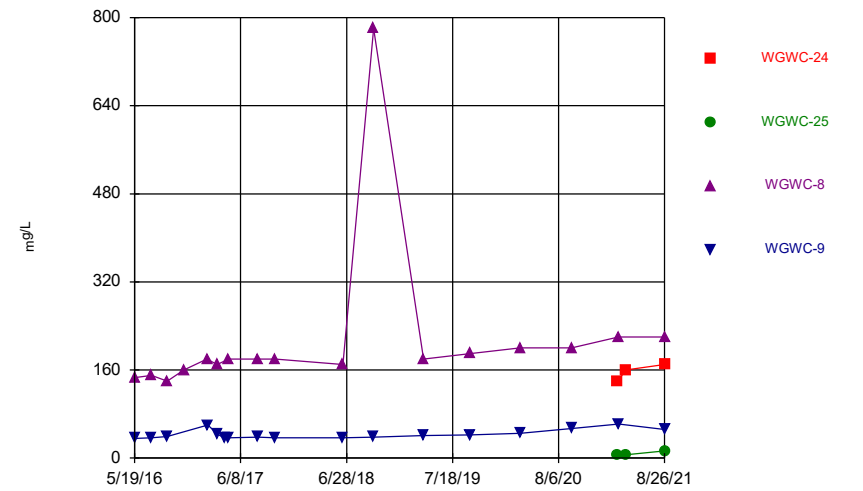
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



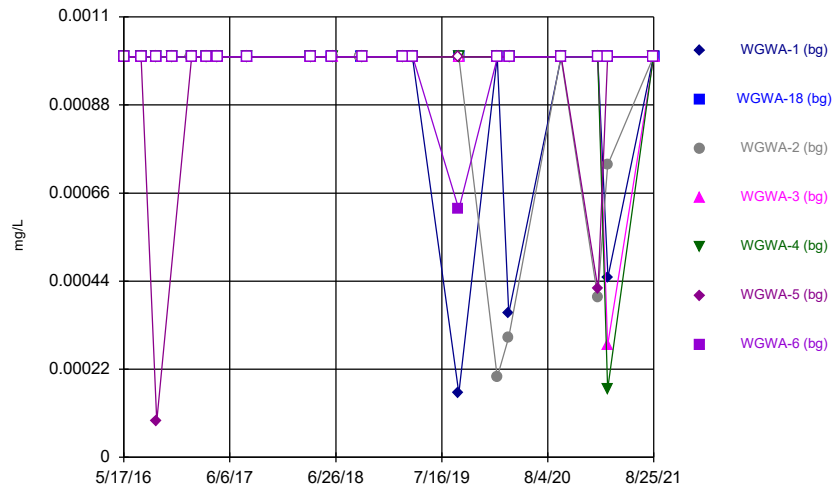
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



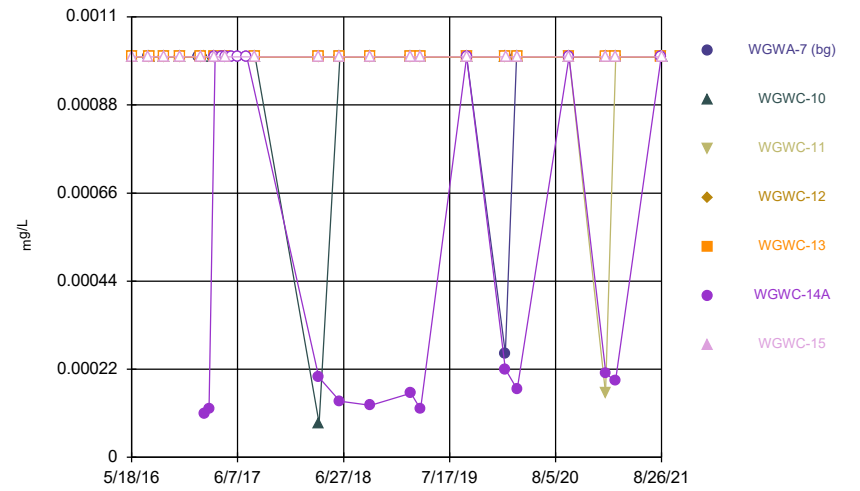
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



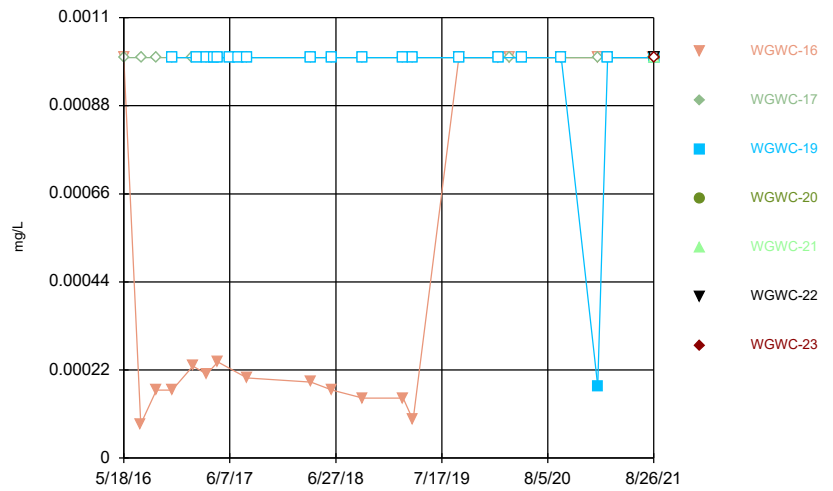
Constituent: Thallium Analysis Run 10/15/2021 4:19 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



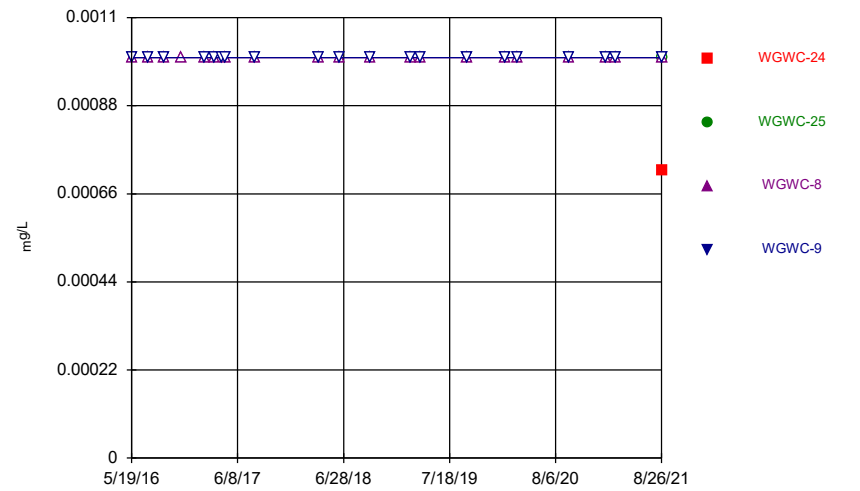
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



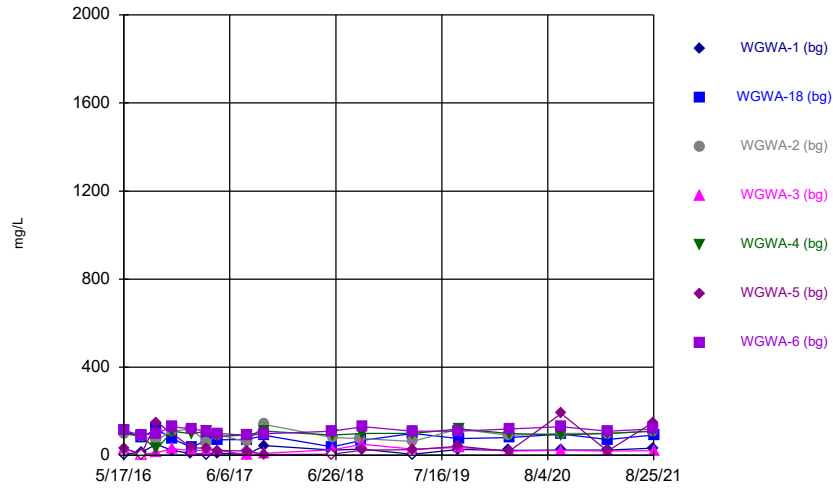
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



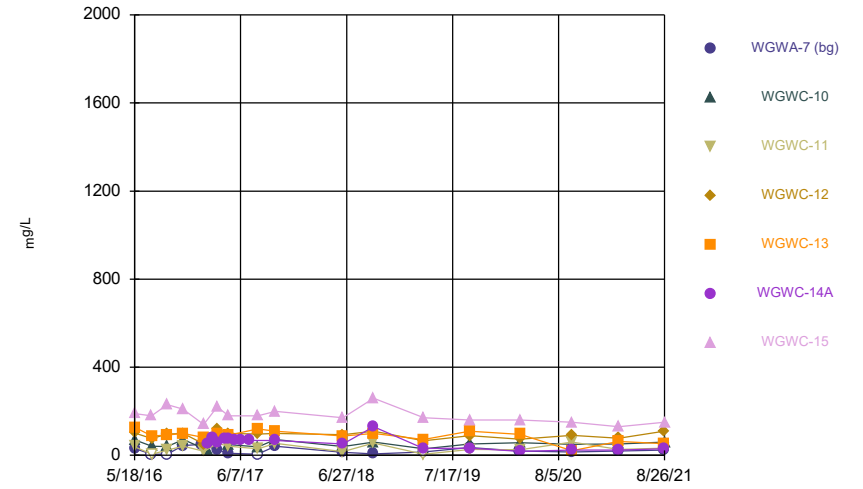
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



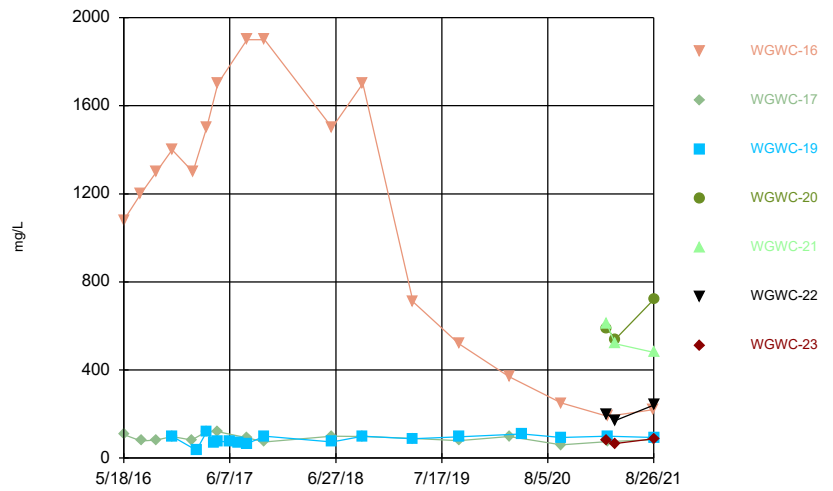
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/15/2021 4:19 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



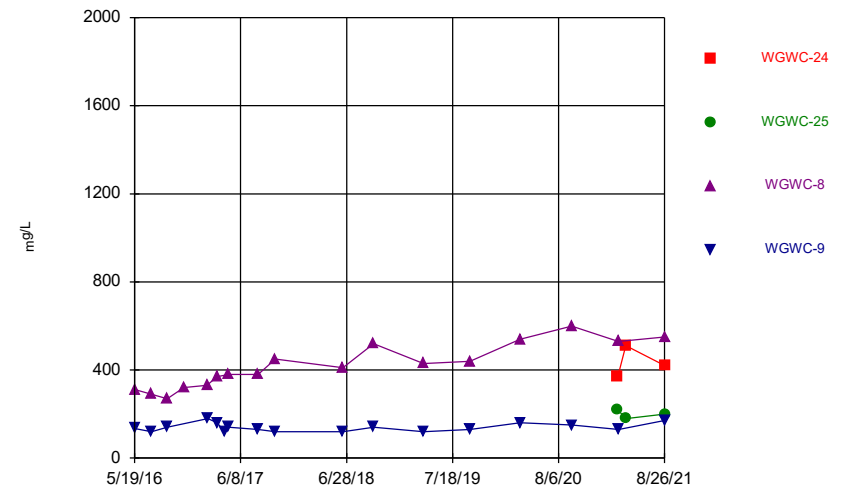
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/15/2021 4:19 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/15/2021 4:19 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/15/2021 4:19 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.002	<0.002	<0.002				
5/18/2016				<0.002	<0.002	<0.002	<0.002
7/19/2016	<0.002	<0.002	<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		<0.002
9/14/2016						<0.002	
11/9/2016	<0.002	<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		<0.002
1/19/2017		<0.002				<0.002	
3/13/2017	<0.002		<0.002				
3/14/2017		<0.002		<0.002	<0.002	<0.002	<0.002
4/24/2017	<0.002		<0.002				
4/25/2017		<0.002		<0.002	<0.002	<0.002	<0.002
8/8/2017	0.0022 (J)	<0.002	<0.002	<0.002			<0.002
8/9/2017					<0.002	<0.002	
3/27/2018	<0.002		<0.002				
3/28/2018		<0.002		<0.002	<0.002	<0.002	<0.002
2/25/2019	<0.002		<0.002				
2/26/2019		<0.002		<0.002	<0.002	<0.002	<0.002
2/3/2020	<0.002		<0.002				
2/4/2020				<0.002	<0.002	<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	<0.002	<0.002
2/2/2021	0.00062 (J)	<0.002	<0.002	<0.002	<0.002		
2/3/2021						<0.002	<0.002
3/10/2021		<0.002	<0.002	<0.002	<0.002	<0.002	
3/11/2021	<0.002						<0.002
8/23/2021			<0.002				
8/24/2021	<0.002				<0.002	<0.002	<0.002
8/25/2021		<0.002		<0.002			

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.002	<0.002					<0.002
5/19/2016			<0.002	<0.002	<0.002		
7/19/2016	<0.002						<0.002
7/20/2016		<0.002	<0.002	<0.002	<0.002		
9/13/2016	<0.002						
9/14/2016		<0.002	<0.002	<0.002	<0.002		<0.002
11/10/2016	<0.002				<0.002		<0.002
11/11/2016		<0.002	<0.002	<0.002			
1/18/2017	<0.002						
1/24/2017							<0.002
1/27/2017			<0.002	<0.002	<0.002		
2/6/2017		<0.002					
2/8/2017						<0.002	
2/23/2017						<0.002	
3/14/2017	<0.002						<0.002
3/15/2017		<0.002	<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	<0.002	<0.002	
5/17/2017						<0.002	
6/7/2017						<0.002	
7/11/2017						<0.002	
8/8/2017	<0.002						
8/9/2017					<0.002		<0.002
8/10/2017		<0.002	<0.002	0.0023 (J)			
3/28/2018	<0.002						
3/29/2018			<0.002	<0.002	<0.002	<0.002	
3/30/2018		<0.002					<0.002
2/26/2019	<0.002						
2/27/2019		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/5/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
2/7/2020							<0.002
3/17/2020	<0.002						
3/18/2020		<0.002	<0.002	<0.002			<0.002
3/19/2020					<0.002	<0.002	
2/2/2021	<0.002						
2/3/2021			<0.002	<0.002			
2/4/2021		<0.002			<0.002	<0.002	<0.002
3/10/2021	<0.002						
3/11/2021		<0.002			<0.002	<0.002	
3/12/2021			<0.002	<0.002			<0.002
8/24/2021	<0.002						
8/25/2021			<0.002	<0.002	<0.002	<0.002	
8/26/2021		<0.002					<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.002	<0.002					
7/19/2016	<0.002						
7/20/2016		<0.002					
9/14/2016	<0.002	<0.002					
11/10/2016	<0.002	<0.002					
11/11/2016			<0.002				
1/20/2017		<0.002					
1/24/2017	<0.002						
2/6/2017			<0.002				
3/14/2017		<0.002					
3/15/2017	<0.002		<0.002				
4/11/2017			<0.002				
4/25/2017	<0.002	<0.002					
4/26/2017			<0.002				
6/7/2017			<0.002				
7/11/2017			<0.002				
8/9/2017	<0.002	<0.002					
8/10/2017			<0.002				
3/29/2018	<0.002		<0.002				
3/30/2018		<0.002					
2/26/2019		<0.002					
2/27/2019	<0.002						
2/28/2019			<0.002				
2/7/2020	<0.002	<0.002	<0.002				
3/18/2020	<0.002	<0.002					
5/4/2020			<0.002				
2/3/2021			<0.002				
2/4/2021	<0.002	<0.002					
3/11/2021	<0.002	<0.002	<0.002				
8/25/2021	<0.002	<0.002					
8/26/2021			<0.002	<0.002	0.00076 (J)	<0.002	<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.002	<0.002
7/20/2016			<0.002	<0.002
9/14/2016				<0.002
9/15/2016			<0.002	
11/14/2016			<0.002	
2/6/2017			<0.002	
2/9/2017				<0.002
3/15/2017			<0.002	0.0011 (J)
4/11/2017				<0.002
4/26/2017			<0.002	<0.002
8/10/2017			<0.002	<0.002
3/29/2018			<0.002	<0.002
2/27/2019			<0.002	
2/28/2019				<0.002
2/5/2020				<0.002
2/7/2020			<0.002	
3/19/2020			<0.002	0.00041 (J)
2/3/2021			<0.002	
2/4/2021				0.00041 (J)
3/11/2021			<0.002	
3/12/2021				<0.002
8/26/2021	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.001	<0.001	<0.001				
5/18/2016				<0.001	<0.001	<0.001	<0.001
7/19/2016	<0.001	0.00061 (J)	<0.001			<0.001	<0.001
7/20/2016				<0.001	<0.001		
9/13/2016	<0.001	0.00074 (J)	<0.001	<0.001	<0.001		<0.001
9/14/2016						0.00069 (J)	
11/9/2016	<0.001	<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)		0.0008 (J)
1/19/2017		0.00079 (J)				<0.001	
3/13/2017	<0.001		<0.001				
3/14/2017		0.0014		<0.001	<0.001	<0.001	<0.001
4/24/2017	<0.001		<0.001				
4/25/2017		0.00062 (J)		<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001			<0.001
8/9/2017					<0.001	<0.001	
3/27/2018	<0.001		<0.001				
3/28/2018		0.00046 (J)		<0.001	<0.001	<0.001	<0.001
6/13/2018	0.001 (J)	0.00057 (J)				<0.001	<0.001
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					
10/2/2018							<0.001
10/3/2018				0.00069 (J)	<0.001	0.00085 (J)	
2/25/2019	<0.001		<0.001				
2/26/2019		0.00054 (J)		<0.001	0.00033 (J)	<0.001	<0.001
4/1/2019	<0.001		<0.001				
4/2/2019		<0.001		<0.001	<0.001	<0.001	<0.001
9/16/2019	<0.001					<0.001	0.00036 (J)
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)	<0.001	<0.001
2/5/2020		0.00058 (J)					
3/16/2020	0.00038 (J)		0.00043 (J)				
3/17/2020		<0.001		<0.001	<0.001	<0.001	<0.001
9/21/2020			<0.001	<0.001	<0.001		
9/22/2020	<0.001	<0.001				<0.001	<0.001
2/2/2021	<0.001	<0.001	<0.001	<0.001	<0.001		
2/3/2021						<0.001	<0.001
3/10/2021		<0.001	0.00063 (J)	<0.001	0.00036 (J)	<0.001	
3/11/2021	<0.001						<0.001
8/23/2021			<0.001				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.001					0.00345
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						0.0031
7/20/2016		<0.001	<0.001	<0.001	<0.001		
9/13/2016	<0.001						
9/14/2016		<0.001	<0.001	<0.001	<0.001		0.0024
11/10/2016	<0.001				<0.001		0.0023
11/11/2016		<0.001	<0.001	<0.001			
1/18/2017	0.001 (J)						
1/24/2017							0.0019
1/27/2017			0.00047 (J)	<0.001	0.00066 (J)		
2/6/2017		<0.001					
2/8/2017						<0.001	
2/23/2017						<0.001	
3/14/2017	<0.001						0.0016
3/15/2017		<0.001	<0.001	<0.001	<0.001		
3/17/2017						0.0006 (J)	
4/11/2017						0.0032	
4/25/2017	<0.001						0.0019
4/26/2017		<0.001	<0.001	<0.001	<0.001	0.0019	
5/17/2017						0.0014	
6/7/2017						0.0021	
7/11/2017						0.00095 (J)	
8/8/2017	<0.001						
8/9/2017					<0.001		0.0017
8/10/2017		<0.001	<0.001	0.00048 (J)			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	0.00067 (J)	<0.001	
3/30/2018		<0.001					0.0018
6/14/2018	0.0005 (J)	0.0005 (J)	<0.001	0.00052 (J)	0.00093 (J)	<0.001	0.002
10/3/2018	<0.001						0.0024
10/4/2018		0.00089 (J)	0.00054 (J)	<0.001	0.0015	0.0017	
2/26/2019	<0.001						
2/27/2019		<0.001	<0.001	<0.001	0.00036 (J)	<0.001	0.0015
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	0.00053 (J)	<0.001	
4/4/2019		<0.001					0.0019
9/18/2019	<0.001				0.00039 (J)	<0.001	0.0016
9/19/2019		0.00038 (J)	<0.001	<0.001			
2/5/2020	<0.001	0.00035 (J)	<0.001	<0.001	0.00048 (J)	<0.001	
2/7/2020							0.001
3/17/2020	<0.001						
3/18/2020		<0.001	<0.001	<0.001			0.00088 (J)
3/19/2020					0.00039 (J)	<0.001	
9/22/2020	<0.001						
9/23/2020		<0.001		<0.001			0.00061 (J)
9/24/2020			0.00051 (J)		<0.001	<0.001	
2/2/2021	<0.001						
2/3/2021			<0.001	<0.001			
2/4/2021		<0.001			0.00038 (J)	<0.001	0.00069 (J)
3/10/2021	<0.001						
3/11/2021		0.00031 (J)			0.00035 (J)	<0.001	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.001	<0.001			0.00084 (J)
8/24/2021	<0.001						
8/25/2021			<0.001	<0.001	<0.001	<0.001	
8/26/2021		<0.001					0.0012

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	0.0009 (J)						
7/20/2016		0.00058 (J)					
9/14/2016	0.0014	<0.001					
11/10/2016	0.0021	0.00082 (J)					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	0.0015						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	0.0014		<0.001				
4/11/2017			<0.001				
4/25/2017	0.0014	0.00095 (J)					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	0.0013	<0.001					
8/10/2017			<0.001				
3/29/2018	0.0014		<0.001				
3/30/2018		<0.001					
6/14/2018	<0.001	0.00076 (J)	<0.001				
10/4/2018	0.0013	0.00088 (J)	<0.001				
2/26/2019		0.0005 (J)					
2/27/2019	0.00046 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	<0.001	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	0.00075 (J)	<0.001				
3/18/2020	<0.001	0.00054 (J)					
5/4/2020			<0.001				
9/23/2020	<0.001	0.00067 (J)	<0.001				
2/3/2021			<0.001				
2/4/2021	<0.001	0.00035 (J)					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	0.00031 (J)	0.00057 (J)	<0.001	<0.001

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.001	<0.001
7/20/2016			0.00055 (J)	0.00078 (J)
9/14/2016				<0.001
9/15/2016			<0.001	
11/14/2016			<0.001	
2/6/2017			<0.001	
2/9/2017				0.0017
3/15/2017			<0.001	0.00047 (J)
4/11/2017				<0.001
4/26/2017			<0.001	<0.001
8/10/2017			<0.001	<0.001
3/29/2018			<0.001	<0.001
6/14/2018			<0.001	<0.001
10/4/2018			0.0015	<0.001
2/27/2019			0.00047 (J)	
2/28/2019				<0.001
4/3/2019			<0.001	<0.001
9/19/2019			0.00032 (J)	<0.001
2/5/2020				<0.001
2/7/2020			0.0011	
3/19/2020			0.00071 (J)	<0.001
9/22/2020			0.0011	
9/23/2020				<0.001
2/3/2021			0.0013	
2/4/2021				<0.001
3/11/2021			0.0009 (J)	
3/12/2021				<0.001
8/26/2021	0.0033	<0.001	0.0013	<0.001

Time Series

Constituent: Barium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.041	0.0221	0.0308				
5/18/2016				0.0174	0.00723	0.0198	0.00518
7/19/2016	0.038	0.018	0.022			0.015	0.0049
7/20/2016				0.012	0.0051		
9/13/2016	0.029	0.021	0.021	0.013	0.0058		0.006
9/14/2016						0.062	
11/9/2016	0.041	0.011	0.025				0.0066
11/10/2016				0.013	0.0063		
1/17/2017	0.044		0.017				
1/18/2017				0.014	0.0059		0.007
1/19/2017		0.012				0.034	
3/13/2017	0.042		0.019				
3/14/2017		0.017		0.014	0.0058	0.018	0.014
4/24/2017	0.039		0.019				
4/25/2017		0.017		0.015	0.0056	0.018	0.0062
8/8/2017	0.044	0.021	0.022	0.015			0.0065
8/9/2017					0.0056	0.016	
3/27/2018	0.041		0.021				
3/28/2018		0.019		0.014	0.0052	0.015	0.0059
6/13/2018	0.045	0.013				0.016	0.0067
6/14/2018			0.02	0.013	0.0057		
9/24/2018			0.02				
9/27/2018	0.047						
9/28/2018		0.014					
10/2/2018							0.0066
10/3/2018				0.014	0.0054	0.016	
2/25/2019	0.049		0.027				
2/26/2019		0.015		0.014	0.012	0.02	0.011
4/1/2019	0.044		0.027				
4/2/2019		0.014		0.014	0.0056	0.016	0.0069
9/16/2019	0.05					0.027	0.0073 (J)
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)	0.022	0.013
2/5/2020		0.02					
3/16/2020	0.046		0.026				
3/17/2020		0.013		0.013	0.0059 (J)	0.017	0.0081 (J)
9/21/2020			0.024	0.015	0.006 (J)		
9/22/2020	0.048	0.015				0.032	0.0079 (J)
2/2/2021	0.05	0.017	0.025	0.015	0.006 (J)		
2/3/2021						0.015	0.0079 (J)
3/10/2021		0.016	0.024	0.014	0.0057 (J)	0.016	
3/11/2021	0.046						0.0077 (J)
8/23/2021			0.023				
8/24/2021	0.049				0.0055 (J)	0.028	0.0074 (J)
8/25/2021		0.015		0.014			

Time Series

Constituent: Barium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.0114	0.0391					0.0206
5/19/2016			0.031	0.0214	0.055		
7/19/2016	0.012						0.019
7/20/2016		0.028	0.029	0.019	0.039		
9/13/2016	0.011						
9/14/2016		0.035	0.031	0.02	0.04		0.02
11/10/2016	0.016				0.04		0.02
11/11/2016		0.042	0.034	0.022			
1/18/2017	0.013						
1/24/2017							0.017
1/27/2017			0.042	0.023	0.042		
2/6/2017		0.041					
2/8/2017						0.037	
2/23/2017						0.051	
3/14/2017	0.01						0.018
3/15/2017		0.04	0.032	0.024	0.058		
3/17/2017						0.046	
4/11/2017						0.055	
4/25/2017	0.012						0.018
4/26/2017		0.039	0.03	0.004	0.054	0.042	
5/17/2017						0.052	
6/7/2017						0.06	
7/11/2017						0.038	
8/8/2017	0.012						
8/9/2017					0.055		0.02
8/10/2017		0.038	0.03	0.017			
3/28/2018	0.01						
3/29/2018			0.028	0.017	0.061	0.028	
3/30/2018		0.042					0.021
6/14/2018	0.012	0.038	0.03	0.015	0.055	0.023	0.022
10/3/2018	0.011						0.024
10/4/2018		0.04	0.035	0.017	0.046	0.036	
2/26/2019	0.013						
2/27/2019		0.04	0.04	0.016	0.054	0.028	0.023
4/2/2019	0.011						
4/3/2019			0.035	0.015	0.056	0.026	
4/4/2019		0.04					0.022
9/18/2019	0.012				0.062	0.025	0.026
9/19/2019		0.038	0.033	0.016			
2/5/2020	0.012	0.061	0.047	0.016	0.052	0.077	
2/7/2020							0.022
3/17/2020	0.012						
3/18/2020		0.035	0.038	0.016			0.021
3/19/2020					0.072	0.031	
9/22/2020	0.013						
9/23/2020		0.035		0.016			0.027
9/24/2020			0.061		0.038	0.034	
2/2/2021	0.012						
2/3/2021			0.039	0.015			
2/4/2021		0.035			0.047	0.029	0.028
3/10/2021	0.011						
3/11/2021		0.033			0.049	0.032	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.045	0.017			0.028
8/24/2021	0.012						
8/25/2021			0.04	0.016	0.046	0.03	
8/26/2021		0.032					0.029

Time Series

Constituent: Barium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.0715	0.0219					
7/19/2016	0.069						
7/20/2016		0.019					
9/14/2016	0.066	0.017					
11/10/2016	0.069	0.02					
11/11/2016			0.0022 (J)				
1/20/2017		0.018					
1/24/2017	0.068						
2/6/2017			0.0018 (J)				
3/14/2017		0.019					
3/15/2017	0.065		0.0015 (J)				
4/11/2017			0.0014 (J)				
4/25/2017	0.057	0.023					
4/26/2017			0.0014 (J)				
6/7/2017			0.0014 (J)				
7/11/2017			0.0013 (J)				
8/9/2017	0.069	0.017					
8/10/2017			0.0012 (J)				
3/29/2018	0.05		0.00097 (J)				
3/30/2018		0.015					
6/14/2018	0.046	0.013	0.0011 (J)				
10/4/2018	0.046	0.013	0.0012 (J)				
2/26/2019		0.012					
2/27/2019	0.028						
2/28/2019			<0.01				
4/2/2019			0.0013 (J)				
4/4/2019	0.027	0.011					
9/18/2019	0.032	0.011	<0.01				
2/7/2020	0.034	0.011	0.0065 (J)				
3/18/2020	0.034	0.012					
5/4/2020			<0.01				
9/23/2020	0.037	0.012	<0.01				
2/3/2021			<0.01				
2/4/2021	0.039	0.012					
3/11/2021	0.037	0.011	<0.01				
8/25/2021	0.035	0.011					
8/26/2021			<0.01	<0.01	0.0086 (J)	0.031	0.0078 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			0.0026	<0.01
7/20/2016			0.0017 (J)	0.0014 (J)
9/14/2016				0.00092 (J)
9/15/2016			0.0039	
11/14/2016			0.00085 (J)	
2/6/2017			0.0011 (J)	
2/9/2017				0.0015 (J)
3/15/2017			0.0013 (J)	0.00054 (J)
4/11/2017				0.0007 (J)
4/26/2017			0.00098 (J)	<0.01
8/10/2017			0.0025	0.00053 (J)
3/29/2018			0.00085 (J)	<0.01
6/14/2018			0.0028	0.00088 (J)
10/4/2018			0.0017 (J)	0.00076 (J)
2/27/2019			<0.01	
2/28/2019				0.0023 (J)
4/3/2019			0.001 (J)	<0.01
9/19/2019			<0.01	0.0018 (J)
2/5/2020				0.0022 (J)
2/7/2020			<0.01	
3/19/2020			<0.01	0.0021 (J)
9/22/2020			<0.01	
9/23/2020				<0.01
2/3/2021			<0.01	
2/4/2021				0.0016 (J)
3/11/2021			<0.01	
3/12/2021				<0.01
8/26/2021	0.042	0.41	<0.01	<0.01

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025				
5/18/2016				<0.0025	<0.0025	<0.0025	<0.0025
7/19/2016	<0.0025	<0.0025	<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		<0.0025
9/14/2016						<0.0025	
11/9/2016	<0.0025	<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		<0.0025
1/19/2017		<0.0025				<0.0025	
3/13/2017	<0.0025		<0.0025				
3/14/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/24/2017	<0.0025		<0.0025				
4/25/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
8/8/2017	<0.0025	<0.0025	<0.0025	<0.0025			<0.0025
8/9/2017					<0.0025	<0.0025	
3/27/2018	<0.0025		<0.0025				
3/28/2018		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
6/13/2018	<0.0025	<0.0025				<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					
10/2/2018							<0.0025
10/3/2018				<0.0025	<0.0025	<0.0025	
2/25/2019	<0.0025		<0.0025				
2/26/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/1/2019	<0.0025		<0.0025				
4/2/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
9/16/2019	0.00032 (J)					0.00036 (J)	0.0011
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	<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	<0.0025	<0.0025
9/21/2020			<0.0025	<0.0025	<0.0025		
9/22/2020	<0.0025	<0.0025				<0.0025	<0.0025
2/2/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
2/3/2021						<0.0025	<0.0025
3/10/2021		<0.0025	0.00065 (J)	0.00019 (J)	<0.0025	<0.0025	
3/11/2021	0.00029 (J)						<0.0025
8/23/2021			<0.0025				
8/24/2021	<0.0025				<0.0025	<0.0025	<0.0025
8/25/2021		<0.0025		<0.0025			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	<0.0025					<0.0025
5/19/2016			<0.0025	<0.0025	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		<0.0025	<0.0025	<0.0025	<0.0025		
9/13/2016	<0.0025						
9/14/2016		<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
11/10/2016	<0.0025				<0.0025		<0.0025
11/11/2016		<0.0025	<0.0025	<0.0025			
1/18/2017	<0.0025						
1/24/2017							<0.0025
1/27/2017			<0.0025	<0.0025	<0.0025		
2/6/2017		<0.0025					
2/8/2017						<0.0025	
2/23/2017						<0.0025	
3/14/2017	<0.0025						<0.0025
3/15/2017		<0.0025	<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	<0.0025	<0.0025	
5/17/2017						<0.0025	
6/7/2017						<0.0025	
7/11/2017						<0.0025	
8/8/2017	<0.0025						
8/9/2017					<0.0025		<0.0025
8/10/2017		<0.0025	<0.0025	<0.0025			
3/28/2018	<0.0025						
3/29/2018			<0.0025	<0.0025	<0.0025	<0.0025	
3/30/2018		<0.0025					<0.0025
6/14/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/26/2019	<0.0025						
2/27/2019		<0.0025	<0.0025	<0.0025	<0.0025	0.00017 (J)	<0.0025
4/2/2019	<0.0025						
4/3/2019			<0.0025	<0.0025	<0.0025	<0.0025	
4/4/2019		<0.0025					<0.0025
9/18/2019	<0.0025				<0.0025	0.00032 (J)	<0.0025
9/19/2019		<0.0025	<0.0025	<0.0025			
2/5/2020	0.00041 (J)	<0.0025	<0.0025	<0.0025	<0.0025	0.00024 (J)	
2/7/2020							<0.0025
3/17/2020	<0.0025						
3/18/2020		<0.0025	<0.0025	<0.0025			<0.0025
3/19/2020					<0.0025	0.00025 (J)	
9/22/2020	<0.0025						
9/23/2020		<0.0025		<0.0025			<0.0025
9/24/2020			<0.0025		<0.0025	0.00024 (J)	
2/2/2021	<0.0025						
2/3/2021			<0.0025	<0.0025			
2/4/2021		<0.0025			<0.0025	0.00026 (J)	<0.0025
3/10/2021	<0.0025						
3/11/2021		<0.0025			<0.0025	<0.0025	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.0025	<0.0025			<0.0025
8/24/2021	<0.0025						
8/25/2021			<0.0025	<0.0025	<0.0025	<0.0025	
8/26/2021		<0.0025					<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.0025	<0.0025					
7/19/2016	<0.0025						
7/20/2016		<0.0025					
9/14/2016	<0.0025	<0.0025					
11/10/2016	<0.0025	<0.0025					
11/11/2016			<0.0025				
1/20/2017		<0.0025					
1/24/2017	<0.0025						
2/6/2017			<0.0025				
3/14/2017		<0.0025					
3/15/2017	<0.0025		<0.0025				
4/11/2017			<0.0025				
4/25/2017	<0.0025	<0.0025					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	<0.0025	<0.0025					
8/10/2017			<0.0025				
3/29/2018	<0.0025		<0.0025				
3/30/2018		<0.0025					
6/14/2018	<0.0025	<0.0025	<0.0025				
10/4/2018	<0.0025	<0.0025	<0.0025				
2/26/2019		<0.0025					
2/27/2019	0.00022 (J)						
2/28/2019			<0.0025				
4/2/2019			<0.0025				
4/4/2019	<0.0025	<0.0025					
9/18/2019	<0.0025	<0.0025	<0.0025				
2/7/2020	<0.0025	<0.0025	<0.0025				
3/18/2020	<0.0025	<0.0025					
5/4/2020			<0.0025				
9/23/2020	<0.0025	<0.0025	<0.0025				
2/3/2021			<0.0025				
2/4/2021	<0.0025	<0.0025					
3/11/2021	<0.0025	<0.0025	<0.0025				
8/25/2021	<0.0025	<0.0025					
8/26/2021			<0.0025	0.0081	<0.0025	0.00053 (J)	0.00089 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			0.00102 (J)	<0.0025
7/20/2016			0.0014 (J)	<0.0025
9/14/2016				<0.0025
9/15/2016			0.00093 (J)	
11/14/2016			0.0014 (J)	
2/6/2017			0.0017 (J)	
2/9/2017				0.00041 (J)
3/15/2017			0.0016 (J)	<0.0025
4/11/2017				<0.0025
4/26/2017			0.0017 (J)	<0.0025
8/10/2017			0.0017 (J)	0.00034 (J)
3/29/2018			0.0018 (J)	<0.0025
6/14/2018			0.0015 (J)	<0.0025
10/4/2018			0.0019 (J)	0.00036 (J)
2/27/2019			0.0021 (J)	
2/28/2019				0.00031 (J)
4/3/2019			0.0019 (J)	<0.0025
9/19/2019			0.0019	0.00041 (J)
2/5/2020				0.0004 (J)
2/7/2020			0.0023	
3/19/2020			0.0028	0.00056 (J)
9/22/2020			0.0025	
9/23/2020				0.00034 (J)
2/3/2021			0.0025	
2/4/2021				0.00039 (J)
3/11/2021			0.0022 (J)	
3/12/2021				0.00034 (J)
8/26/2021	0.014	0.00028 (J)	0.002 (J)	0.00038 (J)

Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.08	<0.08	<0.08				
5/18/2016				<0.08	<0.08	<0.08	<0.08
7/19/2016	<0.08	<0.08	<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		<0.08
9/14/2016						<0.08	
11/9/2016	<0.08	<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		<0.08
1/19/2017		<0.08				<0.08	
3/13/2017	<0.08		<0.08				
3/14/2017		<0.08		<0.08	<0.08	<0.08	<0.08
4/24/2017	<0.08		<0.08				
4/25/2017		<0.08		<0.08	<0.08	<0.08	<0.08
8/8/2017	<0.08	<0.08	<0.08	<0.08			<0.08
8/9/2017					<0.08	<0.08	
10/10/2017	<0.08		<0.08				
10/11/2017		<0.08		<0.08	<0.08	<0.08	<0.08
6/13/2018	<0.08	<0.08				<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					
10/2/2018							<0.08
10/3/2018				<0.08	<0.08	<0.08	
4/1/2019	<0.08		<0.08				
4/2/2019		<0.08		<0.08	<0.08	<0.08	<0.08
9/16/2019	<0.08					<0.08	<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	<0.08	<0.08
9/21/2020			<0.08	<0.08	<0.08		
9/22/2020	<0.08	<0.08				<0.08	<0.08
3/10/2021		<0.08	0.039 (J)	<0.08	<0.08	<0.08	
3/11/2021	<0.08						<0.08
8/23/2021			<0.08				
8/24/2021	<0.08				<0.08	<0.08	<0.08
8/25/2021		0.1		<0.08			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.08	<0.08					<0.08
5/19/2016			<0.08	<0.08	0.0252 (J)		
7/19/2016	<0.08						<0.08
7/20/2016		<0.08	<0.08	<0.08	<0.08		
9/13/2016	<0.08						
9/14/2016		<0.08	<0.08	<0.08	<0.08		<0.08
11/10/2016	<0.08				<0.08		<0.08
11/11/2016		<0.08	<0.08	<0.08			
1/18/2017	<0.08						
1/24/2017							<0.08
1/27/2017			0.021 (J)	0.047 (J)	0.033 (J)		
2/6/2017		<0.08					
2/8/2017						<0.08	
2/23/2017						<0.08	
3/14/2017	<0.08						<0.08
3/15/2017		0.032 (J)	0.058	0.024 (J)	<0.08		
3/17/2017						<0.08	
4/11/2017						<0.08	
4/25/2017	<0.08						<0.08
4/26/2017		<0.08	<0.08	<0.08	<0.08	<0.08	
5/17/2017						<0.08	
6/7/2017						<0.08	
7/11/2017						<0.08	
8/8/2017	<0.08						
8/9/2017					<0.08		<0.08
8/10/2017		<0.08	<0.08	<0.08			
10/11/2017	<0.08					<0.08	<0.08
10/12/2017		<0.08	<0.08	<0.08	<0.08		
6/14/2018	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
10/3/2018	<0.08						<0.08
10/4/2018		<0.08	<0.08	<0.08	<0.08	<0.08	
4/2/2019	<0.08						
4/3/2019			<0.08	<0.08	<0.08	<0.08	
4/4/2019		0.024 (J)					<0.08
9/18/2019	<0.08				<0.08	<0.08	<0.08
9/19/2019		<0.08	<0.08	<0.08			
3/17/2020	<0.08						
3/18/2020		0.049 (J)	<0.08	0.039 (J)			0.071 (J)
3/19/2020					0.053 (J)	0.039 (J)	
9/22/2020	<0.08						
9/23/2020		<0.08		<0.08			<0.08
9/24/2020			<0.08		<0.08	<0.08	
3/10/2021	<0.08						
3/11/2021		<0.08			<0.08	<0.08	
3/12/2021			<0.08	<0.08			<0.08
8/24/2021	<0.08						
8/25/2021			<0.08	<0.08	0.063 (J)	0.043 (J)	
8/26/2021		<0.08					<0.08

Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	4.48	<0.08					
7/19/2016	4.7						
7/20/2016		<0.08					
9/14/2016	5.8	<0.08					
11/10/2016	6.7	<0.08					
11/11/2016			<0.08				
1/20/2017		<0.08					
1/24/2017	6.3						
2/6/2017			<0.08				
3/14/2017		<0.08					
3/15/2017	5.9		0.034 (J)				
4/11/2017			<0.08				
4/25/2017	6.2	<0.08					
4/26/2017			<0.08				
6/7/2017			<0.08				
7/11/2017			<0.08				
8/9/2017	6.3	<0.08					
8/10/2017			<0.08				
10/11/2017	6.8	<0.08					
10/12/2017			<0.08				
6/14/2018	5.4	<0.08	<0.08				
10/4/2018	5.5	<0.08	<0.08				
4/2/2019			<0.08				
4/4/2019	3.2	0.049 (J)					
9/18/2019	2.1	<0.08	<0.08				
3/18/2020	2	0.049 (J)					
5/4/2020			<0.08				
9/23/2020	1.5	<0.08	<0.08				
3/8/2021				1.3			
3/9/2021					0.19	0.33	0.073 (J)
3/11/2021	1.1	<0.08	<0.08				
4/7/2021					0.13		<0.08
4/8/2021				0.98		0.21	
8/25/2021	0.89	<0.08					
8/26/2021			<0.08	2.1	0.087	0.36	0.052 (J)

Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			1.42	0.314
7/20/2016			1.4	0.25
9/14/2016				0.3
9/15/2016			1.2	
11/14/2016			1.3	
2/6/2017			1.8	
2/9/2017				0.61
3/15/2017			1.7	0.42
4/11/2017				0.37
4/26/2017			2	0.38
8/10/2017			1.8	0.29
10/12/2017			1.8	0.36
6/14/2018			1.7	0.39
10/4/2018			1.9	0.37
4/3/2019			1.7	0.35
9/19/2019			1.7	0.39
3/19/2020			2.2	0.55
9/22/2020			2.5	
9/23/2020				0.68
3/8/2021		0.48		
3/9/2021	1.8			
3/11/2021			2.4	
3/12/2021				0.64
4/7/2021	1.9			
4/8/2021		0.43		
8/26/2021	2.1	0.7	2.4	0.56

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025				
5/18/2016				<0.0025	<0.0025	<0.0025	<0.0025
7/19/2016	<0.0025	<0.0025	<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		<0.0025
9/14/2016						<0.0025	
11/9/2016	<0.0025	<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		<0.0025
1/19/2017		<0.0025				<0.0025	
3/13/2017	<0.0025		<0.0025				
3/14/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/24/2017	<0.0025		<0.0025				
4/25/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
8/8/2017	<0.0025	<0.0025	<0.0025	<0.0025			<0.0025
8/9/2017					<0.0025	<0.0025	
3/27/2018	<0.0025		<0.0025				
3/28/2018		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
6/13/2018	<0.0025	<0.0025				<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					
10/2/2018							<0.0025
10/3/2018				<0.0025	<0.0025	<0.0025	
2/25/2019	<0.0025		<0.0025				
2/26/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/1/2019	<0.0025		<0.0025				
4/2/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
9/16/2019	<0.0025					<0.0025	<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	<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	<0.0025	<0.0025
9/21/2020			<0.0025	<0.0025	<0.0025		
9/22/2020	<0.0025	<0.0025				<0.0025	<0.0025
2/2/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
2/3/2021						<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	<0.0025					<0.0025
5/19/2016			<0.0025	<0.0025	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		<0.0025	<0.0025	<0.0025	<0.0025		
9/13/2016	<0.0025						
9/14/2016		<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
11/10/2016	<0.0025				<0.0025		<0.0025
11/11/2016		<0.0025	<0.0025	<0.0025			
1/18/2017	<0.0025						
1/24/2017							<0.0025
1/27/2017			<0.0025	<0.0025	<0.0025		
2/6/2017		<0.0025					
2/8/2017						<0.0025	
2/23/2017						<0.0025	
3/14/2017	<0.0025						<0.0025
3/15/2017		<0.0025	<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	<0.0025	<0.0025	
5/17/2017						<0.0025	
6/7/2017						<0.0025	
7/11/2017						<0.0025	
8/8/2017	<0.0025						
8/9/2017					<0.0025		<0.0025
8/10/2017		<0.0025	<0.0025	<0.0025			
3/28/2018	<0.0025						
3/29/2018			<0.0025	<0.0025	<0.0025	<0.0025	
3/30/2018		<0.0025					<0.0025
6/14/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/26/2019	<0.0025						
2/27/2019		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/2/2019	<0.0025						
4/3/2019			<0.0025	<0.0025	<0.0025	<0.0025	
4/4/2019		<0.0025					<0.0025
9/18/2019	<0.0025				<0.0025	<0.0025	<0.0025
9/19/2019		0.00021 (J)	<0.0025	<0.0025			
2/5/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/7/2020							<0.0025
3/17/2020	<0.0025						
3/18/2020		<0.0025	<0.0025	<0.0025			<0.0025
3/19/2020					<0.0025	<0.0025	
9/22/2020	<0.0025						
9/23/2020		<0.0025		<0.0025			<0.0025
9/24/2020			<0.0025		<0.0025	<0.0025	
2/2/2021	<0.0025						
2/3/2021			<0.0025	<0.0025			
2/4/2021		<0.0025			<0.0025	<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.000362 (J)	<0.0025					
7/19/2016	<0.0025						
7/20/2016		<0.0025					
9/14/2016	0.00037 (J)	<0.0025					
11/10/2016	<0.0025	<0.0025					
11/11/2016			<0.0025				
1/20/2017		<0.0025					
1/24/2017	0.00055 (J)						
2/6/2017			<0.0025				
3/14/2017		<0.0025					
3/15/2017	0.00067 (J)		<0.0025				
4/11/2017			<0.0025				
4/25/2017	0.00058 (J)	<0.0025					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	0.00054 (J)	<0.0025					
8/10/2017			<0.0025				
3/29/2018	0.00082 (J)		<0.0025				
3/30/2018		<0.0025					
6/14/2018	0.0007 (J)	<0.0025	<0.0025				
10/4/2018	0.00065 (J)	<0.0025	<0.0025				
2/26/2019		<0.0025					
2/27/2019	0.00055 (J)						
2/28/2019			<0.0025				
4/2/2019			<0.0025				
4/4/2019	0.00047 (J)	<0.0025					
9/18/2019	0.00017 (J)	<0.0025	<0.0025				
2/7/2020	<0.0025	<0.0025	<0.0025				
3/18/2020	0.00022 (J)	<0.0025					
5/4/2020			<0.0025				
9/23/2020	<0.0025	<0.0025	<0.0025				
2/3/2021			<0.0025				
2/4/2021	<0.0025	<0.0025					
8/26/2021				<0.0025	<0.0025	<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.0025	<0.0025
7/20/2016			<0.0025	<0.0025
9/14/2016				<0.0025
9/15/2016			<0.0025	
11/14/2016			<0.0025	
2/6/2017			<0.0025	
2/9/2017				<0.0025
3/15/2017			<0.0025	<0.0025
4/11/2017				<0.0025
4/26/2017			<0.0025	<0.0025
8/10/2017			<0.0025	<0.0025
3/29/2018			<0.0025	<0.0025
6/14/2018			<0.0025	<0.0025
10/4/2018			<0.0025	<0.0025
2/27/2019			<0.0025	
2/28/2019				<0.0025
4/3/2019			<0.0025	<0.0025
9/19/2019			<0.0025	<0.0025
2/5/2020				<0.0025
2/7/2020			<0.0025	
3/19/2020			<0.0025	<0.0025
9/22/2020			<0.0025	
9/23/2020				<0.0025
2/3/2021			<0.0025	
2/4/2021				<0.0025
8/26/2021	0.00061 (J)	<0.0025		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.927	23.7	12.2				
5/18/2016				2.1	17.9	1.7	27
7/19/2016	1	23	13			1.5	23
7/20/2016				1.7	15		
9/13/2016	0.44	23	13	1.3	16		25
9/14/2016						52	
11/9/2016	1.1	6.7	19				25
11/10/2016				1.6	15		
1/17/2017	1.4		28				
1/18/2017				1.7	17		26
1/19/2017		8.5				13	
3/13/2017	1.1		14				
3/14/2017		13		1.8	17	1.6	20
4/24/2017	1.1		12				
4/25/2017		23		2	17	1.5	28
8/8/2017	1.1	24	18	2			26
8/9/2017					15	1.3	
10/10/2017	1.2		21				
10/11/2017		23		2.1	17	1.5	29
6/13/2018	1.1	11				1.2	25
6/14/2018			12	2	15		
9/24/2018			11				
9/27/2018	1.2						
9/28/2018		11					
10/2/2018							26
10/3/2018				1.8	16	1.4	
4/1/2019	1		12				
4/2/2019		20		1.8	15	1.1	25
9/16/2019	1.3					36	25
9/17/2019		10	13		16		
9/18/2019				1.6			
3/16/2020	1.1		10				
3/17/2020		10		1.7	15	1.4	26
9/21/2020			13	1.8	16		
9/22/2020	1.2	19				58	25
3/10/2021		7.7	11	1.9	16	1.3	
3/11/2021	1.3						26
8/23/2021			13				
8/24/2021	1.2				15	47	26
8/25/2021		16		1.7			

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	1.36	7.17					32.5
5/19/2016			1.95	15.8	11.4		
7/19/2016	0.88						30
7/20/2016		7	1.5	14	7.1		
9/13/2016	0.93						
9/14/2016		7.7	1.8	16	7.4		37
11/10/2016	6.1				6.4		29
11/11/2016		8.2	1.7	15			
1/18/2017	10						
1/24/2017							28
1/27/2017			3.5	16	6.2		
2/6/2017		9.1					
2/8/2017						3.2	
2/23/2017						4.1	
3/14/2017	1.3						29
3/15/2017		9	3.8	16	6.7		
3/17/2017						2.4	
4/11/2017						4.1	
4/25/2017	1.9						32
4/26/2017		8.1	4	3	6.5	2.5	
5/17/2017						5.2	
6/7/2017						5.2	
7/11/2017						2.3	
8/8/2017	4.8						
8/9/2017					7		30
8/10/2017		8.1	3.5	15			
10/11/2017	0.93					3.8	31
10/12/2017		8.6	2.7	16	7		
6/14/2018	0.94	7.7	2.2	13	5.5	1.1	29
10/3/2018	1.2						31
10/4/2018		8.5	2	15	5.9	2	
4/2/2019	1.1						
4/3/2019			1.7	14	4.7	0.84	
4/4/2019		7.9					30
9/18/2019	1.5				4.9	0.85	31
9/19/2019		7.5	1.4	14			
3/17/2020	0.82						
3/18/2020		7.5	1.6	14			30
3/19/2020					5	0.89	
9/22/2020	0.89						
9/23/2020		7.7		13			32
9/24/2020			5.2		1.4	0.99	
3/10/2021	0.89						
3/11/2021		7.9			4	0.79	
3/12/2021			1.6	15			31
8/24/2021	1.7						
8/25/2021			1.5	14	4	0.7	
8/26/2021		7.6					31

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	168	8.24					
7/19/2016	190						
7/20/2016		11					
9/14/2016	230	12					
11/10/2016	240	11					
11/11/2016			12				
1/20/2017		10					
1/24/2017	280						
2/6/2017			11				
3/14/2017		8.8					
3/15/2017	260		10				
4/11/2017			11				
4/25/2017	300	12					
4/26/2017			8.4				
6/7/2017			9				
7/11/2017			9.5				
8/9/2017	350	11					
8/10/2017			8.8				
10/11/2017	360	10					
10/12/2017			9.5				
6/14/2018	260	6.2	8.9				
10/4/2018	250	6.4	10				
4/2/2019			11				
4/4/2019	110	5.6					
9/18/2019	62	5.5	8.8				
3/18/2020	66	6.3					
5/4/2020			15				
9/23/2020	43	5.9	13				
3/8/2021				90			
3/9/2021					66	15	3.2
3/11/2021	32	5.7	15				
4/7/2021					67		2.7
4/8/2021				88		14	
8/25/2021	27	6					
8/26/2021			10	120	51	24	4.6

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			31.4	8.53
7/20/2016			28	8.2
9/14/2016				8.8
9/15/2016			27	
11/14/2016			32	
2/6/2017			41	
2/9/2017				10
3/15/2017			38	8.6
4/11/2017				8.6
4/26/2017			39	7.1
8/10/2017			53	7.5
10/12/2017			60	8.2
6/14/2018			52	7.5
10/4/2018			65	8
4/3/2019			61	7.2
9/19/2019			57	8.1
3/19/2020			79	9.3
9/22/2020			81	
9/23/2020				10
3/8/2021		14		
3/9/2021	65			
3/11/2021			83	
3/12/2021				11
4/7/2021	71			
4/8/2021		16		
8/26/2021	69	16	85	9.3

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	3.8	6.05	2.5				
5/18/2016				1.92	1.45	2.14	1.58
7/19/2016	3.9	4	2.6			2.4	1.6
7/20/2016				1.8	1.4		
9/13/2016	3.6	3.1	2.4	1.7	1.4		1.4
9/14/2016						2.1	
11/9/2016	3.9	2.3	2.3				1.5
11/10/2016				1.6	1.3		
1/17/2017	3.8		2.3				
1/18/2017				1.7	1.3		1.5
1/19/2017		2				1.8	
3/13/2017	3.4		2.2				
3/14/2017		1.9		1.6	1.2	2	2.5
4/24/2017	3.4		2.2				
4/25/2017		1.9		1.6	1.2	1.8	1.3
8/8/2017	3.6	2	2.3	1.7			1.4
8/9/2017					1.2	1.9	
10/10/2017	3.6		2.5				
10/11/2017		1.9		1.6	1.2	2.1	1.3
6/13/2018	3.8	2				1.7	1.4
6/14/2018			2.3	1.6	1.2		
9/24/2018			2.4				
9/27/2018	4						
9/28/2018		2.1					
10/2/2018							1.4
10/3/2018				1.6	1.2	1.8	
4/1/2019	4		2.4				
4/2/2019		2.6		1.7	1.2	1.7	1.5
9/16/2019	4					1.8	1.5
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	1.6	1.7
9/21/2020			2.5	1.5	1.2		
9/22/2020	4	2.1				1.5	1.4
3/10/2021		1.9	2.6	1.8	1.2	1.8	
3/11/2021	4.5						1.5
8/23/2021			3.3				
8/24/2021	5.1				1.5	2.1	1.8
8/25/2021		2.3		1.9			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	2.06	1.45					4.59
5/19/2016			3.21	3.8	2.26		
7/19/2016	2.1						5.9
7/20/2016		1.6	3.4	3.8	1.9		
9/13/2016	2						
9/14/2016		1.5	3.1	3.7	1.6		7.9
11/10/2016	1.8				1.4		6.5
11/11/2016		1.5	3.2	3.5			
1/18/2017	1.8						
1/24/2017							4.1
1/27/2017			3.4	3.1	1.4		
2/6/2017		1.4					
2/8/2017						2.5	
2/23/2017						4.3	
3/14/2017	1.8						4.4
3/15/2017		1.4	3.1	3.2	1.4		
3/17/2017						4.8	
4/11/2017						3.8	
4/25/2017	1.8						4
4/26/2017		1.3	3.1	3.2	1.3	4.8	
5/17/2017						3.9	
6/7/2017						3.2	
7/11/2017						4.1	
8/8/2017	1.9						
8/9/2017					1.4		3.6
8/10/2017		1.4	3.1	3.4			
10/11/2017	1.8					2.2	5
10/12/2017		1.3	3	3.1	1.2		
6/14/2018	1.7	1.3	3	3	1.2	2.8	4.3
10/3/2018	1.8						4.8
10/4/2018		1.3	3.1	3.1	1.2	2.2	
4/2/2019	1.9						
4/3/2019			3.3	3	1.2	2.4	
4/4/2019		1.4					3.7
9/18/2019	2				1.2	2.2	3.2
9/19/2019		1.5	3.2	3.2			
3/17/2020	2.2						
3/18/2020		1.5	3.2	3.2			1.7
3/19/2020					1.3	1.9	
9/22/2020	1.8						
9/23/2020		1.3		2.8			1.5
9/24/2020			1		1.6	3.1	
3/10/2021	1.9						
3/11/2021		1.7			1.2	2.6	
3/12/2021			3.6	3.5			1.6
8/24/2021	1.9						
8/25/2021			3.5	3.7	1.2	2.8	
8/26/2021		1.6					1.4

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	217	2.72					
7/19/2016	250						
7/20/2016		1.9					
9/14/2016	260	1.6					
11/10/2016	290	1.6					
11/11/2016			2.6				
1/20/2017		1.5					
1/24/2017	310						
2/6/2017			2.6				
3/14/2017		1.5					
3/15/2017	330		2.4				
4/11/2017			2.3				
4/25/2017	330	1.8					
4/26/2017			2.3				
6/7/2017			2.5				
7/11/2017			2.3				
8/9/2017	330	1.4					
8/10/2017			2.5				
10/11/2017	320	1.5					
10/12/2017			2.3				
6/14/2018	290	1.5	2.4				
10/4/2018	290	1.5	2.6				
4/2/2019			2.5				
4/4/2019	170	1.4					
9/18/2019	100	1.5	2.7				
3/18/2020	93	1.5					
5/4/2020			2.8				
9/23/2020	58	1.2	2.6				
3/8/2021				70			
3/9/2021					58	2.9	3.5
3/11/2021	49	1.3	2.9				
4/7/2021					50		3.7
4/8/2021				57		2.4	
8/25/2021	45	1.6					
8/26/2021			3.3	130	47	4.2	3.3

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			17.5	1.46
7/20/2016			19	1.5
9/14/2016				1.4
9/15/2016			19	
11/14/2016			25	
2/6/2017			33	
2/9/2017				1.5
3/15/2017			38	1.3
4/11/2017				1.2
4/26/2017			42	1.2
8/10/2017			48	1.3
10/12/2017			60	1.4
6/14/2018			58	1.2
10/4/2018			300	1.2
4/3/2019			70	2
9/19/2019			70	1.5
3/19/2020			98	2.1
9/22/2020			100	
9/23/2020				2.4
3/8/2021		74		
3/9/2021	110			
3/11/2021			110	
3/12/2021				3.4
4/7/2021	110			
4/8/2021		77		
8/26/2021	100	79	110	3.1

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.002	<0.002	<0.002				
5/18/2016				<0.002	<0.002	<0.002	<0.002
7/19/2016	<0.002	<0.002	<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		<0.002
9/14/2016						0.0031	
11/9/2016	<0.002	<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		<0.002
1/19/2017		<0.002				<0.002	
3/13/2017	<0.002		<0.002				
3/14/2017		<0.002		<0.002	<0.002	<0.002	<0.002
4/24/2017	<0.002		<0.002				
4/25/2017		<0.002		<0.002	<0.002	<0.002	<0.002
8/8/2017	<0.002	<0.002	<0.002	<0.002			<0.002
8/9/2017					<0.002	<0.002	
3/27/2018	<0.002		<0.002				
3/28/2018		0.0049		<0.002	<0.002	<0.002	<0.002
6/13/2018	<0.002	<0.002				<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					
10/2/2018							<0.002
10/3/2018				<0.002	<0.002	<0.002	
2/25/2019	0.0016 (J)		<0.002				
2/26/2019		0.0016 (J)		<0.002	0.0021 (J)	<0.002	0.0023 (J)
4/1/2019	<0.002		<0.002				
4/2/2019		<0.002		<0.002	<0.002	<0.002	<0.002
9/16/2019	0.0016 (J)					<0.002	<0.002
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	<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	<0.002	<0.002
9/21/2020			<0.002	<0.002	<0.002		
9/22/2020	<0.002	<0.002				<0.002	<0.002
2/2/2021	<0.002	<0.002	<0.002	<0.002	<0.002		
2/3/2021						<0.002	<0.002
3/10/2021		<0.002	<0.002	<0.002	<0.002	<0.002	
3/11/2021	<0.002						<0.002
8/23/2021			<0.002				
8/24/2021	<0.002				<0.002	<0.002	<0.002
8/25/2021		<0.002		<0.002			

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.002	<0.002					<0.002
5/19/2016			<0.002	<0.002	<0.002		
7/19/2016	<0.002						<0.002
7/20/2016		0.0012 (J)	<0.002	<0.002	<0.002		
9/13/2016	<0.002						
9/14/2016		<0.002	<0.002	<0.002	<0.002		<0.002
11/10/2016	<0.002				<0.002		<0.002
11/11/2016		0.0015 (J)	<0.002	<0.002			
1/18/2017	<0.002						
1/24/2017							<0.002
1/27/2017			<0.002	<0.002	<0.002		
2/6/2017		0.0011 (J)					
2/8/2017						<0.002	
2/23/2017						<0.002	
3/14/2017	<0.002						<0.002
3/15/2017		0.0015 (J)	<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		0.0013 (J)	0.0011 (J)	<0.002	<0.002	<0.002	
5/17/2017						<0.002	
6/7/2017						<0.002	
7/11/2017						<0.002	
8/8/2017	<0.002						
8/9/2017					<0.002		<0.002
8/10/2017		0.0016 (J)	<0.002	<0.002			
3/28/2018	<0.002						
3/29/2018			0.0012 (J)	<0.002	<0.002	<0.002	
3/30/2018		0.0027					<0.002
6/14/2018	<0.002	0.0023 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
10/3/2018	<0.002						<0.002
10/4/2018		0.0031	<0.002	<0.002	<0.002	<0.002	
2/26/2019	<0.002						
2/27/2019		0.0031	0.0021 (J)	<0.002	0.0018 (J)	<0.002	0.0015 (J)
4/2/2019	<0.002						
4/3/2019			<0.002	<0.002	<0.002	<0.002	
4/4/2019		0.0021 (J)					<0.002
9/18/2019	<0.002				<0.002	<0.002	<0.002
9/19/2019		0.0022	<0.002	<0.002			
2/5/2020	<0.002	0.0022	<0.002	<0.002	<0.002	0.0017 (J)	
2/7/2020							<0.002
3/17/2020	<0.002						
3/18/2020		<0.002	<0.002	<0.002			<0.002
3/19/2020					<0.002	<0.002	
9/22/2020	<0.002						
9/23/2020		0.0018 (J)		<0.002			<0.002
9/24/2020			<0.002		<0.002	<0.002	
2/2/2021	<0.002						
2/3/2021			<0.002	<0.002			
2/4/2021		0.0018 (J)			<0.002	<0.002	<0.002
3/10/2021	<0.002						
3/11/2021		0.0023			0.0019 (J)	<0.002	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0017 (J)	<0.002			<0.002
8/24/2021	<0.002						
8/25/2021			<0.002	<0.002	0.0017 (J)	<0.002	
8/26/2021		0.0024					<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.002	<0.002					
7/19/2016	<0.002						
7/20/2016		<0.002					
9/14/2016	<0.002	<0.002					
11/10/2016	<0.002	<0.002					
11/11/2016			<0.002				
1/20/2017		<0.002					
1/24/2017	<0.002						
2/6/2017			<0.002				
3/14/2017		<0.002					
3/15/2017	<0.002		<0.002				
4/11/2017			<0.002				
4/25/2017	<0.002	<0.002					
4/26/2017			<0.002				
6/7/2017			<0.002				
7/11/2017			<0.002				
8/9/2017	<0.002	<0.002					
8/10/2017			<0.002				
3/29/2018	<0.002		<0.002				
3/30/2018		<0.002					
6/14/2018	<0.002	<0.002	<0.002				
10/4/2018	<0.002	<0.002	<0.002				
2/26/2019		<0.002					
2/27/2019	<0.002						
2/28/2019			<0.002				
4/2/2019			<0.002				
4/4/2019	<0.002	<0.002					
9/18/2019	<0.002	<0.002	<0.002				
2/7/2020	<0.002	<0.002	<0.002				
3/18/2020	<0.002	<0.002					
5/4/2020			<0.002				
9/23/2020	<0.002	<0.002	<0.002				
2/3/2021			<0.002				
2/4/2021	<0.002	<0.002					
3/11/2021	<0.002	<0.002	<0.002				
8/25/2021	<0.002	<0.002					
8/26/2021			<0.002	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.002	<0.002
7/20/2016			<0.002	<0.002
9/14/2016				<0.002
9/15/2016			<0.002	
11/14/2016			<0.002	
2/6/2017			<0.002	
2/9/2017				<0.002
3/15/2017			<0.002	<0.002
4/11/2017				<0.002
4/26/2017			<0.002	<0.002
8/10/2017			<0.002	<0.002
3/29/2018			<0.002	<0.002
6/14/2018			<0.002	<0.002
10/4/2018			<0.002	<0.002
2/27/2019			<0.002	
2/28/2019				0.0025
4/3/2019			<0.002	<0.002
9/19/2019			<0.002	<0.002
2/5/2020				<0.002
2/7/2020			<0.002	
3/19/2020			<0.002	<0.002
9/22/2020			<0.002	
9/23/2020				<0.002
2/3/2021			<0.002	
2/4/2021				<0.002
3/11/2021			<0.002	
3/12/2021				<0.002
8/26/2021	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025				
5/18/2016				<0.0025	<0.0025	<0.0025	<0.0025
7/19/2016	0.0014 (J)	0.0019 (J)	0.00086 (J)			0.0014 (J)	<0.0025
7/20/2016				<0.0025	<0.0025		
9/13/2016	0.0015 (J)	0.0032	0.00095 (J)	<0.0025	<0.0025		<0.0025
9/14/2016						0.013	
11/9/2016	0.0012 (J)	0.0039	0.0011 (J)				<0.0025
11/10/2016				<0.0025	<0.0025		
1/17/2017	0.001 (J)		<0.0025				
1/18/2017				<0.0025	<0.0025		<0.0025
1/19/2017		0.0032				0.064 (O)	
3/13/2017	0.0011 (J)		0.00087 (J)				
3/14/2017		0.0045		<0.0025	<0.0025	0.0066	0.0018 (J)
4/24/2017	0.001 (J)		0.0014 (J)				
4/25/2017		0.002 (J)		<0.0025	<0.0025	0.0026	<0.0025
8/8/2017	0.0011 (J)	0.0031	0.0012 (J)	<0.0025			<0.0025
8/9/2017					<0.0025	0.0025	
3/27/2018	0.00091 (J)		0.0012 (J)				
3/28/2018		0.0013 (J)		<0.0025	<0.0025	0.0015 (J)	<0.0025
6/13/2018	0.00094 (J)	0.0021 (J)				0.0011 (J)	<0.0025
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)					
10/2/2018							<0.0025
10/3/2018				<0.0025	<0.0025	0.0013 (J)	
2/25/2019	0.00085 (J)		0.00083 (J)				
2/26/2019		0.00026 (J)		<0.0025	0.00029 (J)	0.0006 (J)	0.00031 (J)
4/1/2019	0.00079 (J)		0.00082 (J)				
4/2/2019		<0.0025		<0.0025	<0.0025	0.00046 (J)	<0.0025
9/16/2019	0.00082					0.0035	9.1E-05 (J)
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	0.00082	<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	0.00066 (J)	0.00014 (J)
9/21/2020			0.00054 (J)	<0.0025	<0.0025		
9/22/2020	0.00072 (J)	0.00033 (J)				0.0065	<0.0025
2/2/2021	0.00082 (J)	0.0018 (J)	0.00069 (J)	<0.0025	<0.0025		
2/3/2021						0.0015 (J)	<0.0025
3/10/2021		0.0015 (J)	0.00073 (J)	<0.0025	<0.0025	0.0011 (J)	
3/11/2021	0.00081 (J)						<0.0025
8/23/2021			0.00049 (J)				
8/24/2021	0.0016 (J)				<0.0025	0.00079 (J)	<0.0025
8/25/2021		0.00084 (J)		<0.0025			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	0.00201 (J)					<0.0025
5/19/2016			<0.0025	<0.0025	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		0.00066 (J)	0.0025	0.0013 (J)	<0.0025		
9/13/2016	<0.0025						
9/14/2016		0.00095 (J)	<0.0025	0.00098 (J)	<0.0025		<0.0025
11/10/2016	0.00055 (J)				<0.0025		<0.0025
11/11/2016		0.001 (J)	0.00052 (J)	0.0017 (J)			
1/18/2017	0.00097 (J)						
1/24/2017							<0.0025
1/27/2017			0.00049 (J)	0.0022 (J)	<0.0025		
2/6/2017		0.00072 (J)					
2/8/2017						0.0051	
2/23/2017						0.014	
3/14/2017	<0.0025						<0.0025
3/15/2017		0.00062 (J)	0.00064 (J)	0.0016 (J)	<0.0025		
3/17/2017						0.013	
4/11/2017						0.016	
4/25/2017	<0.0025						<0.0025
4/26/2017		0.0014 (J)	0.001 (J)	0.00026 (J)	<0.0025	0.01	
5/17/2017						0.011	
6/7/2017						0.01	
7/11/2017						0.0085	
8/8/2017	<0.0025						
8/9/2017					0.0004 (J)		<0.0025
8/10/2017		<0.0025	0.0011 (J)	0.00049 (J)			
3/28/2018	<0.0025						
3/29/2018			<0.0025	0.0008 (J)	0.0008 (J)	0.015	
3/30/2018		0.0035					<0.0025
6/14/2018	<0.0025	0.0012 (J)	<0.0025	0.00067 (J)	0.00054 (J)	0.011	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		0.00086 (J)	<0.0025	0.00079 (J)	<0.0025	0.0055	
2/26/2019	0.00017 (J)						
2/27/2019		0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049	<0.0025
4/2/2019	<0.0025						
4/3/2019			0.00081 (J)	0.00043 (J)	<0.0025	0.0056	
4/4/2019		0.0017 (J)					<0.0025
9/18/2019	0.0002 (J)				<0.0025	0.005	<0.0025
9/19/2019		0.0023	<0.0025	0.00028 (J)			
2/5/2020	0.00021 (J)	0.0013	0.00026 (J)	0.00058	<0.0025	0.0044	
2/7/2020							<0.0025
3/17/2020	0.00065 (J)						
3/18/2020		0.0012 (J)	0.00069 (J)	0.00071 (J)			<0.0025
3/19/2020					<0.0025	0.0039	
9/22/2020	0.00015 (J)						
9/23/2020		0.00062 (J)		0.00039 (J)			<0.0025
9/24/2020			<0.0025		0.00032 (J)	0.0035	
2/2/2021	<0.0025						
2/3/2021			0.00072 (J)	0.00017 (J)			
2/4/2021		0.00059 (J)			<0.0025	0.0041	0.00015 (J)
3/10/2021	<0.0025						
3/11/2021		0.00058 (J)			<0.0025	0.0037	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0022 (J)	0.00042 (J)			<0.0025
8/24/2021	0.00017 (J)						
8/25/2021			0.00045 (J)	0.0005 (J)	<0.0025	0.0029	
8/26/2021		0.00044 (J)					<0.0025

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.0069	0.00245 (J)					
7/19/2016	0.012						
7/20/2016		0.0018 (J)					
9/14/2016	0.013	0.0014 (J)					
11/10/2016	0.016	0.0016 (J)					
11/11/2016			<0.0025				
1/20/2017		0.0014 (J)					
1/24/2017	0.015						
2/6/2017			0.00058 (J)				
3/14/2017		0.0023 (J)					
3/15/2017	0.014		0.00045 (J)				
4/11/2017			<0.0025				
4/25/2017	0.014	0.0023 (J)					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	0.016	0.0011 (J)					
8/10/2017			0.00049 (J)				
3/29/2018	0.0092		<0.0025				
3/30/2018		0.0016 (J)					
6/14/2018	0.0035	0.00055 (J)	<0.0025				
10/4/2018	0.0078	0.00041 (J)	<0.0025				
2/26/2019		0.00086 (J)					
2/27/2019	0.00084 (J)						
2/28/2019			0.00019 (J)				
4/2/2019			<0.0025				
4/4/2019	0.00077 (J)	<0.0025					
9/18/2019	0.00011 (J)	0.00018 (J)	0.00045 (J)				
2/7/2020	0.00016 (J)	0.00077	0.00024 (J)				
3/18/2020	0.00016 (J)	0.00052 (J)					
5/4/2020			0.00018 (J)				
9/23/2020	<0.0025	0.0009 (J)	0.00024 (J)				
2/3/2021			0.00025 (J)				
2/4/2021	0.00026 (J)	0.00042 (J)					
3/11/2021	0.00013 (J)	0.00035 (J)	0.00022 (J)				
8/25/2021	<0.0025	0.00042 (J)					
8/26/2021			0.00022 (J)	0.00046 (J)	0.00042 (J)	0.00038 (J)	0.00017 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.0025	<0.0025
7/20/2016			<0.0025	<0.0025
9/14/2016				<0.0025
9/15/2016			<0.0025	
11/14/2016			<0.0025	
2/6/2017			<0.0025	
2/9/2017				0.00073 (J)
3/15/2017			<0.0025	<0.0025
4/11/2017				<0.0025
4/26/2017			<0.0025	<0.0025
8/10/2017			<0.0025	<0.0025
3/29/2018			0.00066 (J)	<0.0025
6/14/2018			0.0011 (J)	<0.0025
10/4/2018			<0.0025	<0.0025
2/27/2019			0.0019 (J)	
2/28/2019				<0.0025
4/3/2019			0.0037	<0.0025
9/19/2019			0.0028	<0.0025
2/5/2020				<0.0025
2/7/2020			0.0011	
3/19/2020			0.00092 (J)	<0.0025
9/22/2020			0.00065 (J)	
9/23/2020				<0.0025
2/3/2021			0.00014 (J)	
2/4/2021				<0.0025
3/11/2021			0.00043 (J)	
3/12/2021				<0.0025
8/26/2021	0.13	0.005	0.0005 (J)	<0.0025

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.0525 (U)	0.184 (U)	0.13 (U)				
5/18/2016				0.025 (U)	1.04	0.325 (U)	8
7/19/2016	7.25 (O)	0.27 (U)	0.121 (U)			0.433 (U)	7.69
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		6.98
11/9/2016	0.221 (U)	0.219 (U)	0.217 (U)				8.78
11/10/2016				0.421	1.13		
1/17/2017	0.295 (U)		0.595				
1/18/2017				0.434 (U)	1.76		10.4
1/19/2017		0.0745 (U)				0.216 (U)	
3/13/2017	-0.13 (U)		-0.147 (U)				
3/14/2017		0.194 (U)		0.167 (U)	0.788	0.119 (U)	0.589 (O)
4/24/2017	0.36 (U)		0.367				
4/25/2017		0.109 (U)		0.224 (U)	1.13	0.105 (U)	8.22
8/8/2017	0.382	0.0842 (U)	0.402	0.127 (U)			7.21
8/9/2017					1.31	0.385 (U)	
3/27/2018	0.475		0.453				
3/28/2018		0.424		0.15 (U)	1.32	0.492	7.52
6/13/2018	-0.0181 (U)	0.401				0.275 (U)	8.77
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					
10/2/2018							8.72
10/3/2018				0.178 (U)	0.943	0.72	
2/25/2019	0.394		0.44				
2/26/2019		0.307 (U)		0.179 (U)	0.65	0.113 (U)	8.93
4/1/2019	0.169 (U)		-0.00216 (U)				
4/2/2019		0.0436 (U)		0.361	0.602	0.255 (U)	7.8
9/16/2019	0.31 (U)					0.318 (U)	8.55
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	0.198 (U)	8.3
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	0.207 (U)	8.88
9/21/2020			0.418 (U)	0.0688 (U)	1.07		
9/22/2020	0.729	0.557 (U)				0.954	7.65
2/2/2021	0.243 (U)	0.354 (U)	0.202 (U)	0.182 (U)	1.05		
2/3/2021						-0.314 (U)	9.99
3/10/2021		0.218 (U)	0.378 (U)	-0.177 (U)	1.47	0.144 (U)	
3/11/2021	0.046 (U)						9.2
8/23/2021			0.632				
8/24/2021	0.598				1.61	0.226 (U)	9.78
8/25/2021		0.645		-0.121 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.268 (U)	0.182 (U)					0.569
5/19/2016			0.431 (U)	0.0698 (U)	0.219 (U)		
7/19/2016	0.369 (U)						0.29 (U)
7/20/2016		-0.135 (U)	-0.263 (U)	-0.0646 (U)	0.404 (U)		
9/13/2016	0.527 (U)						
9/14/2016		0.311 (U)	0.13 (U)	0.199 (U)	0.692		0.412 (U)
11/10/2016	0.871				1		0.709
11/11/2016		0.542	0.0257 (U)	0.467			
1/18/2017	0.213 (U)						
1/24/2017							0.779
1/27/2017			0.898	0.836	0.668		
2/6/2017		0.104 (U)					
2/8/2017						0.958	
2/23/2017						0.771	
3/14/2017	0.0192 (U)						0.247 (U)
3/15/2017		0.523	0.121 (U)	0.254 (U)	0.847		
3/17/2017						1.7	
4/11/2017						0.901	
4/25/2017	0.0872 (U)						0.515
4/26/2017		0.069 (U)	0.0309 (U)	0.267 (U)	0.408 (U)	0.434	
5/17/2017						0.632	
6/7/2017						1.06	
7/11/2017						0.716	
8/8/2017	0.219 (U)						
8/9/2017					0.816		1.7
8/10/2017		0.189 (U)	0.326 (U)	0.912			
3/28/2018	0.315 (U)						
3/29/2018			0.461	0.419	0.51	0.58	
3/30/2018		0.575					0.0985 (U)
6/14/2018	0.41	0.523	0.275 (U)	-0.263 (U)	0.463	0.55	0.171 (U)
10/3/2018	0.65						0.766
10/4/2018		0.84	1.18	1.29	0.99	0.563	
2/26/2019	0.395						
2/27/2019		0.236 (U)	0.374	0.415	1.08	0.538	0.363 (U)
4/2/2019	0.182 (U)						
4/3/2019			0.187 (U)	0.264 (U)	0.446	0.497	
4/4/2019		0.233 (U)					0.418
9/18/2019	0.299 (U)				0.392	0.376 (U)	0.484
9/19/2019		0.124 (U)	0.338 (U)	0.329 (U)			
2/5/2020	-0.0263 (U)	0.0961 (U)	0.163 (U)	0.225 (U)	0.609	0.5	
2/7/2020							0.125 (U)
3/17/2020	0.258 (U)						
3/18/2020		0.461 (U)	0.866	-0.0262 (U)			0.303 (U)
3/19/2020					0.47	0.376 (U)	
9/22/2020	0.0523 (U)						
9/23/2020		0.442 (U)		0.785			0.448 (U)
9/24/2020			1.2		1.02	0.796	
2/2/2021	0.167 (U)						
2/3/2021			0.718	0.322 (U)			
2/4/2021		0.0332 (U)			0.139 (U)	0.564	0.488 (U)
3/10/2021	0.224 (U)						
3/11/2021		0.42 (U)			0.473	0.764	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0729 (U)	0.633			0.591
8/24/2021	0.465 (U)						
8/25/2021			0.401	0.443 (U)	0.913	0.705	
8/26/2021		0.321 (U)					0.678

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	1.03	0.116 (U)					
7/19/2016	2.39						
7/20/2016		0.247 (U)					
9/14/2016	3.05	0.594					
11/10/2016	2.87	0.431					
11/11/2016			-0.11 (U)				
1/20/2017		1.35					
1/24/2017	2.68						
2/6/2017			0.471				
3/14/2017		-0.107 (U)					
3/15/2017	1.64		0.255 (U)				
4/11/2017			0.19 (U)				
4/25/2017	0.878	0.228 (U)					
4/26/2017			0.22 (U)				
6/7/2017			0.126 (U)				
7/11/2017			0.511				
8/9/2017	2.5	-0.0246 (U)					
8/10/2017			0.882				
3/29/2018	1.6		0.252 (U)				
3/30/2018		0.135 (U)					
6/14/2018	1.09	-0.373 (U)	0.0458 (U)				
10/4/2018	1.99	0.775	0.381				
2/26/2019		0.431					
2/27/2019	0.721						
2/28/2019			0.254 (U)				
4/2/2019			0.209 (U)				
4/4/2019	0.632	0.386					
9/18/2019	0.278 (U)	0.167 (U)	0.403 (U)				
2/7/2020	0.797	0.244 (U)	0.2 (U)				
3/18/2020	0.437	0.0655 (U)					
5/4/2020			0.0697 (U)				
9/23/2020	0.276 (U)	0.643	1.18				
2/3/2021			0.684				
2/4/2021	0.727	0.438 (U)					
3/11/2021	0.942	0.247 (U)	0.286 (U)				
8/25/2021	0.518	0.565					
8/26/2021			0.796	1.6	1.17	3.54	0.703

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			0.711 (U)	0.209 (U)
7/20/2016			1.14	-0.084 (U)
9/14/2016				0.42 (U)
9/15/2016			1.26	
11/14/2016			0.749	
2/6/2017			1.05	
2/9/2017				0.393
3/15/2017			1.32	0.271 (U)
4/11/2017				0.488 (U)
4/26/2017			1.07	0.14 (U)
8/10/2017			1.88	0.379
3/29/2018			2.31	0.278 (U)
6/14/2018			1.86	0.157 (U)
10/4/2018			2.44	0.48
2/27/2019			2.42	
2/28/2019				0.271 (U)
4/3/2019			1.55	0.0621 (U)
9/19/2019			2.06	0.537
2/5/2020				-0.137 (U)
2/7/2020			1.66	
3/19/2020			1.21	0.23 (U)
9/22/2020			1.75	
9/23/2020				0.0587 (U)
2/3/2021			2	
2/4/2021				0.353 (U)
3/11/2021			2.38	
3/12/2021				0.831
8/26/2021	1.63	1.12	2.87	0.681

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.0131 (J)	0.284 (J)	0.0538 (J)				
5/18/2016				0.029 (J)	0.164 (J)	0.014 (J)	0.106 (J)
7/19/2016	<0.1	0.21	<0.1			<0.1	0.11 (J)
7/20/2016				<0.1	0.17 (J)		
9/13/2016	<0.1	0.15 (J)	<0.1	<0.1	0.15 (J)		0.11 (J)
9/14/2016						0.095 (J)	
11/9/2016	<0.1	<0.1	0.085 (J)				0.1 (J)
11/10/2016				<0.1	0.12 (J)		
1/17/2017	<0.1		<0.1				
1/18/2017				<0.1	0.15 (J)		0.11 (J)
1/19/2017		0.087 (J)				<0.1	
3/13/2017	<0.1		<0.1				
3/14/2017		<0.1		<0.1	0.13 (J)	<0.1	<0.1
4/24/2017	<0.1		<0.1				
4/25/2017		<0.1		<0.1	0.12 (J)	<0.1	<0.1
8/8/2017	<0.1	0.087 (J)	<0.1	<0.1			0.099 (J)
8/9/2017					0.14 (J)	<0.1	
10/10/2017	<0.1		0.18 (J)				
10/11/2017		0.09 (J)		<0.1	0.14 (J)	<0.1	0.098 (J)
3/27/2018	<0.1		<0.1				
3/28/2018		0.11 (J)		<0.1	0.12 (J)	<0.1	0.088 (J)
6/13/2018	<0.1	0.085 (J)				<0.1	0.093 (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)					
10/2/2018							0.13 (J)
10/3/2018				<0.1	0.13 (J)	<0.1	
2/25/2019	<0.1		0.032 (J)				
2/26/2019		0.23		<0.1	0.14 (J)	<0.1	0.074 (J)
4/1/2019	<0.1		0.061 (J)				
4/2/2019		0.21		0.039 (J)	0.14 (J)	<0.1	0.09 (J)
9/16/2019	0.03 (J)					<0.1	0.1 (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	<0.1	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	<0.1	0.037 (J)
9/21/2020			0.037 (J)	<0.1	0.091 (J)		
9/22/2020	<0.1	0.1				<0.1	0.068 (J)
2/2/2021	0.028 (J)	0.071 (J)	0.065 (J)	0.035 (J)	0.15		
2/3/2021						<0.1	0.088 (J)
3/10/2021		0.046 (J)	0.045 (J)	<0.1	0.12	<0.1	
3/11/2021	<0.1						0.092 (J)
8/23/2021			0.097 (J)				
8/24/2021	0.062 (J)				0.17	0.073 (J)	0.16
8/25/2021		0.13		0.077 (J)			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.018 (J)	0.206					0.779
5/19/2016			0.039 (J)	0.12 (J)	0.384		
7/19/2016	<0.1						0.97
7/20/2016		0.23	<0.1	0.11 (J)	0.34		
9/13/2016	<0.1						
9/14/2016		0.17 (J)	<0.1	0.095 (J)	0.31		0.89
11/10/2016	<0.1				0.26		0.88
11/11/2016		0.14 (J)	<0.1	<0.1			
1/18/2017	<0.1						
1/24/2017							0.92
1/27/2017			<0.1	<0.1	0.28		
2/6/2017		0.15 (J)					
2/8/2017						<0.1	
2/23/2017						<0.1	
3/14/2017	<0.1						0.77
3/15/2017		0.16 (J)	<0.1	<0.1	0.3		
3/17/2017						<0.1	
4/11/2017						<0.1	
4/25/2017	<0.1						0.95
4/26/2017		0.17 (J)	<0.1	<0.1	0.33	<0.1	
5/17/2017						<0.1	
6/7/2017						<0.1	
7/11/2017						<0.1	
8/8/2017	<0.1						
8/9/2017					0.32		0.91
8/10/2017		0.2	<0.1	0.11 (J)			
10/11/2017	<0.1					<0.1	0.88
10/12/2017		0.14 (J)	<0.1	0.091 (J)	0.28		
3/28/2018	<0.1						
3/29/2018			<0.1	0.089 (J)	0.27	<0.1	
3/30/2018		0.13 (J)					0.79
6/14/2018	<0.1	0.15 (J)	<0.1	0.1 (J)	0.27	<0.1	0.79
10/3/2018	<0.1						0.79
10/4/2018		0.18 (J)	<0.1	0.12 (J)	0.23	<0.1	
2/26/2019	<0.1						
2/27/2019		0.21	0.047 (J)	0.06 (J)	0.25	<0.1	0.81
4/2/2019	<0.1						
4/3/2019			0.048 (J)	0.084 (J)	0.24	0.048 (J)	
4/4/2019		0.13 (J)					0.78
9/18/2019	0.027 (J)				0.22	0.035 (J)	0.81
9/19/2019		0.13 (J)	0.037 (J)	0.093 (J)			
2/5/2020	0.026 (J)	0.14	0.045 (J)	0.098 (J)	0.2	0.04 (J)	
2/7/2020							0.79
3/17/2020	0.044 (J)						
3/18/2020		0.052 (J)	<0.1	0.033 (J)			0.71
3/19/2020					0.15	<0.1	
9/22/2020	<0.1						
9/23/2020		0.09 (J)		0.064 (J)			0.63
9/24/2020			0.18		<0.1	0.028 (J)	
2/2/2021	<0.1						
2/3/2021			0.027 (J)	0.082 (J)			
2/4/2021		0.12			0.16	0.033 (J)	0.69

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/10/2021	<0.1						
3/11/2021		0.15			0.18	0.04 (J)	
3/12/2021			0.044 (J)	0.096 (J)			0.88
8/24/2021	0.054 (J)						
8/25/2021			0.056 (J)	0.14	0.2	0.071 (J)	
8/26/2021		0.16					0.77

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.1 (J)	0.121 (J)					
7/19/2016	0.14 (J)						
7/20/2016		0.16 (J)					
9/14/2016	0.18 (J)	0.19 (J)					
11/10/2016	0.11 (J)	0.15 (J)					
11/11/2016			0.32				
1/20/2017		0.18 (J)					
1/24/2017	0.15 (J)						
2/6/2017			0.45				
3/14/2017		0.11 (J)					
3/15/2017	0.1 (J)		0.37				
4/11/2017			0.37				
4/25/2017	0.13 (J)	0.13 (J)					
4/26/2017			0.4				
6/7/2017			0.35				
7/11/2017			0.39				
8/9/2017	0.18 (J)	0.19 (J)					
8/10/2017			0.42				
10/11/2017	<0.1	0.14 (J)					
10/12/2017			0.36				
3/29/2018	0.13 (J)		0.34				
3/30/2018		0.095 (J)					
6/14/2018	<0.1	0.11 (J)	0.35				
10/4/2018	0.85 (J)	0.11 (J)	0.35				
2/26/2019		0.068 (J)					
2/27/2019	0.47						
2/28/2019			0.28				
4/2/2019			0.33				
4/4/2019	0.08 (J)	0.087 (J)					
9/18/2019	0.058 (J)	0.066 (J)	0.32				
2/7/2020	0.072 (J)	0.079 (J)	0.35				
3/18/2020	0.084 (J)	<0.1					
5/4/2020			0.36				
9/23/2020	0.049 (J)	0.05 (J)	0.25				
2/3/2021			0.3				
2/4/2021	0.052 (J)	0.064 (J)					
3/8/2021				1.8			
3/9/2021					1.7	1.1	0.092 (J)
3/11/2021	0.061 (J)	0.05 (J)	0.31				
4/7/2021					1.6		0.093 (J)
4/8/2021				1.7		1.4	
8/25/2021	0.099 (J)	0.093 (J)					
8/26/2021			0.38	2	2	0.51	0.081 (J)

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			0.304	1.58
7/20/2016			0.27	2
9/14/2016				1.8
9/15/2016			0.24	
11/14/2016			0.2	
2/6/2017			0.27	
2/9/2017				1.3
3/15/2017			0.25	1.3
4/11/2017				1.4
4/26/2017			0.31	1.5
8/10/2017			0.37	1.6
10/12/2017			0.35	1.5
3/29/2018			0.36	1.4
6/14/2018			0.56	1.4
10/4/2018			0.27	1.4
2/27/2019			0.054 (J)	
2/28/2019				1.4
4/3/2019			0.5	1.3
9/19/2019			0.42	1.3
2/5/2020				1.3
2/7/2020			0.25	
3/19/2020			0.057 (J)	1
9/22/2020			0.14	
9/23/2020				0.82
2/3/2021			0.15	
2/4/2021				0.91
3/8/2021		<0.1		
3/9/2021	1			
3/11/2021			0.16	
3/12/2021				0.98
4/7/2021	1.1			
4/8/2021		0.028 (J)		
8/26/2021	1.2	0.047 (J)	0.21	1

Time Series

Constituent: Lead (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.001	<0.001	<0.001				
5/18/2016				<0.001	<0.001	<0.001	<0.001
7/19/2016	<0.001	<0.001	<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		<0.001
9/14/2016						<0.001	
11/9/2016	<0.001	<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		<0.001
1/19/2017		<0.001				<0.001	
3/13/2017	<0.001		<0.001				
3/14/2017		<0.001		<0.001	<0.001	<0.001	<0.001
4/24/2017	<0.001		<0.001				
4/25/2017		<0.001		<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001			<0.001
8/9/2017					<0.001	<0.001	
3/27/2018	<0.001		<0.001				
3/28/2018		<0.001		<0.001	<0.001	<0.001	<0.001
2/25/2019	<0.001		0.00019 (J)				
2/26/2019		<0.001		<0.001	0.00046 (J)	0.00028 (J)	0.00037 (J)
4/1/2019	<0.001		<0.001				
4/2/2019		<0.001		<0.001	<0.001	<0.001	<0.001
9/16/2019	<0.001					<0.001	<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)	0.00024 (J)	<0.001
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)	<0.001	0.00017 (J)
9/21/2020			<0.001	<0.001	<0.001		
9/22/2020	<0.001	<0.001				<0.001	<0.001
2/2/2021	0.00015 (J)	<0.001	0.00015 (J)	<0.001	<0.001		
2/3/2021						0.00019 (J)	<0.001
3/10/2021		<0.001	0.00019 (J)	<0.001	<0.001	<0.001	
3/11/2021	<0.001						<0.001
8/23/2021			0.00023 (J)				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			

Time Series

Constituent: Lead (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.001					<0.001
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						<0.001
7/20/2016		<0.001	<0.001	<0.001	<0.001		
9/13/2016	<0.001						
9/14/2016		<0.001	<0.001	<0.001	0.00055 (J)		<0.001
11/10/2016	<0.001				0.00047 (J)		<0.001
11/11/2016		<0.001	<0.001	<0.001			
1/18/2017	<0.001						
1/24/2017							<0.001
1/27/2017			<0.001	<0.001	<0.001		
2/6/2017		<0.001					
2/8/2017						<0.001	
2/23/2017						<0.001	
3/14/2017	<0.001						<0.001
3/15/2017		<0.001	<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	<0.001	<0.001	
5/17/2017						<0.001	
6/7/2017						<0.001	
7/11/2017						<0.001	
8/8/2017	<0.001						
8/9/2017					<0.001		<0.001
8/10/2017		<0.001	<0.001	<0.001			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	<0.001	<0.001	
3/30/2018		<0.001					<0.001
2/26/2019	<0.001						
2/27/2019		0.00023 (J)	0.00058 (J)	<0.001	0.00068 (J)	<0.001	<0.001
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	0.00047 (J)	<0.001	
4/4/2019		<0.001					<0.001
9/18/2019	<0.001				0.00045 (J)	<0.001	<0.001
9/19/2019		0.00041 (J)	<0.001	<0.001			
2/5/2020	<0.001	0.00016 (J)	<0.001	<0.001	0.00045 (J)	<0.001	
2/7/2020							<0.001
3/17/2020	<0.001						
3/18/2020		0.00021 (J)	<0.001	<0.001			<0.001
3/19/2020					0.0006 (J)	0.00017 (J)	
9/22/2020	<0.001						
9/23/2020		0.00013 (J)		<0.001			<0.001
9/24/2020			0.00037 (J)		<0.001	0.00018 (J)	
2/2/2021	<0.001						
2/3/2021			<0.001	<0.001			
2/4/2021		0.00019 (J)			0.00038 (J)	0.00013 (J)	0.0003 (J)
3/10/2021	<0.001						
3/11/2021		0.00032 (J)			0.00075 (J)	0.00031 (J)	
3/12/2021			0.00038 (J)	<0.001			<0.001
8/24/2021	<0.001						
8/25/2021			0.00023 (J)	<0.001	0.00025 (J)	0.00041 (J)	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/26/2021		0.00026 (J)					<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	<0.001						
7/20/2016		<0.001					
9/14/2016	<0.001	<0.001					
11/10/2016	<0.001	<0.001					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	<0.001						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	<0.001		<0.001				
4/11/2017			<0.001				
4/25/2017	<0.001	<0.001					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	<0.001	<0.001					
8/10/2017			<0.001				
3/29/2018	<0.001		<0.001				
3/30/2018		<0.001					
2/26/2019		0.00033 (J)					
2/27/2019	0.00014 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	<0.001	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	<0.001	<0.001				
3/18/2020	<0.001	0.0002 (J)					
5/4/2020			<0.001				
9/23/2020	<0.001	<0.001	<0.001				
2/3/2021			<0.001				
2/4/2021	0.00013 (J)	<0.001					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	<0.001	<0.001	0.00022 (J)	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.001	<0.001
7/20/2016			<0.001	<0.001
9/14/2016				<0.001
9/15/2016			<0.001	
11/14/2016			<0.001	
2/6/2017			<0.001	
2/9/2017				<0.001
3/15/2017			<0.001	<0.001
4/11/2017				<0.001
4/26/2017			<0.001	<0.001
8/10/2017			<0.001	<0.001
3/29/2018			<0.001	<0.001
2/27/2019			0.00017 (J)	
2/28/2019				0.00014 (J)
4/3/2019			<0.001	<0.001
9/19/2019			<0.001	<0.001
2/5/2020				<0.001
2/7/2020			<0.001	
3/19/2020			0.00016 (J)	<0.001
9/22/2020			0.00013 (J)	
9/23/2020				<0.001
2/3/2021			0.00013 (J)	
2/4/2021				<0.001
3/11/2021			<0.001	
3/12/2021				<0.001
8/26/2021	0.0012	<0.001	0.00014 (J)	<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
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	<0.005	<0.005	0.005			<0.005	0.0043 (J)
7/20/2016				<0.005	0.0041 (J)		
9/13/2016	<0.005	<0.005	0.0075	<0.005	0.0042 (J)		0.0045 (J)
9/14/2016						<0.005	
11/9/2016	0.0032 (J)	<0.005	0.0078				0.0036 (J)
11/10/2016				<0.005	0.0048 (J)		
1/17/2017	<0.005		0.009				
1/18/2017				<0.005	0.0033 (J)		0.0046 (J)
1/19/2017		<0.005				<0.005	
3/13/2017	<0.005		0.0069				
3/14/2017		<0.005		<0.005	0.0033 (J)	<0.005	0.0038 (J)
4/24/2017	<0.005		0.0049 (J)				
4/25/2017		<0.005		<0.005	0.0037 (J)	<0.005	<0.005
8/8/2017	0.0032 (J)	<0.005	0.0075	<0.005			0.0043 (J)
8/9/2017					0.0042 (J)	<0.005	
3/27/2018	0.0045 (J)		0.0081				
3/28/2018		0.0012 (J)		0.0013 (J)	0.0056	<0.005	0.0064
6/13/2018	0.0033 (J)	<0.005				<0.005	0.0041 (J)
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)					
10/2/2018							0.0038 (J)
10/3/2018				0.0012 (J)	0.005	<0.005	
2/25/2019	0.0049 (J)		0.0072				
2/26/2019		<0.005		<0.005	0.0069	<0.005	0.0068
4/1/2019	0.0044 (J)		0.0055				
4/2/2019		0.0012 (J)		<0.005	0.0036 (J)	0.0016 (J)	0.0052
9/16/2019	0.004 (J)					0.028 (O)	0.032 (O)
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	<0.005	0.0053
2/5/2020		<0.005					
3/16/2020	0.0053		0.0083				
3/17/2020		<0.005		<0.005	0.0059	<0.005	0.0055
9/21/2020			0.0075	<0.005	0.005		
9/22/2020	0.0036 (J)	<0.005				<0.005	0.0049 (J)
2/2/2021	<0.005	<0.005	0.0065	<0.005	0.0039 (J)		
2/3/2021						<0.005	0.0047 (J)
3/10/2021		<0.005	0.0075	<0.005	0.0049 (J)	<0.005	
3/11/2021	0.0039 (J)						0.005
8/23/2021			0.0066				
8/24/2021	<0.005				0.0036 (J)	<0.005	0.0041 (J)
8/25/2021		<0.005		<0.005			

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.05 (O)	0.032					<0.005
5/19/2016			<0.005	<0.005	<0.005		
7/19/2016	<0.005						0.0036 (J)
7/20/2016		0.021	<0.005	0.0057	<0.005		
9/13/2016	<0.005						
9/14/2016		0.02	<0.005	0.0077	<0.005		<0.005
11/10/2016	<0.005				0.0038 (J)		0.0064
11/11/2016		0.017	<0.005	0.007			
1/18/2017	<0.005						
1/24/2017							0.0075
1/27/2017			<0.005	0.0074	<0.005		
2/6/2017		0.016					
2/8/2017						0.0039 (J)	
2/23/2017						<0.005	
3/14/2017	<0.005						0.0057
3/15/2017		0.014	<0.005	0.0077	<0.005		
3/17/2017						<0.005	
4/11/2017						<0.005	
4/25/2017	<0.005						0.0059
4/26/2017		0.011	<0.005	0.0011	<0.005	<0.005	
5/17/2017						0.0033 (J)	
6/7/2017						<0.005	
7/11/2017						<0.005	
8/8/2017	<0.005						
8/9/2017					<0.005		0.0068
8/10/2017		0.011	<0.005	0.0064			
3/28/2018	0.0014 (J)						
3/29/2018			0.0018 (J)	0.01	0.0022 (J)	0.0025 (J)	
3/30/2018		0.016					0.0077
6/14/2018	<0.005	0.0084	0.0011 (J)	0.0062	0.0018 (J)	0.0018 (J)	0.0052
10/3/2018	<0.005						0.006
10/4/2018		0.0085	0.0014 (J)	0.0066	0.0025 (J)	0.0016 (J)	
2/26/2019	<0.005						
2/27/2019		0.0068	<0.005	0.0068	<0.005	<0.005	0.0055
4/2/2019	<0.005						
4/3/2019			<0.005	0.0075	<0.005	0.0015 (J)	
4/4/2019		0.0059					0.0054
9/18/2019	<0.005				<0.005	<0.005	0.0054
9/19/2019		0.0075	<0.005	0.0067			
2/5/2020	<0.005	0.0061	<0.005	0.0063	<0.005	<0.005	
2/7/2020							0.0068
3/17/2020	<0.005						
3/18/2020		0.0071	<0.005	0.0081			0.0086
3/19/2020					<0.005	<0.005	
9/22/2020	<0.005						
9/23/2020		0.0054		0.007			0.0071
9/24/2020			<0.005		<0.005	<0.005	
2/2/2021	<0.005						
2/3/2021			<0.005	0.0075			
2/4/2021		0.0049 (J)			<0.005	<0.005	0.0086
3/10/2021	<0.005						
3/11/2021		0.0051			0.0037 (J)	0.0035 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.005	0.0089			0.0096
8/24/2021	<0.005						
8/25/2021			<0.005	0.0061	<0.005	<0.005	
8/26/2021		0.0044 (J)					0.0059

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.005	<0.005					
7/19/2016	0.0091						
7/20/2016		0.0042 (J)					
9/14/2016	0.012	0.0058					
11/10/2016	0.013	0.0066					
11/11/2016			0.045				
1/20/2017		0.0044 (J)					
1/24/2017	0.011						
2/6/2017			0.05				
3/14/2017		0.0048 (J)					
3/15/2017	0.01		0.052				
4/11/2017			0.048				
4/25/2017	0.0081	0.0049 (J)					
4/26/2017			0.044				
6/7/2017			0.047				
7/11/2017			0.045				
8/9/2017	0.013	0.0067					
8/10/2017			0.056				
3/29/2018	0.015		0.072				
3/30/2018		0.0067					
6/14/2018	0.009	0.0046 (J)	0.048				
10/4/2018	0.012	0.005	0.062				
2/26/2019		0.0063					
2/27/2019	0.0075						
2/28/2019			0.045				
4/2/2019			0.052				
4/4/2019	0.0077	0.0042 (J)					
9/18/2019	0.0056	0.0047 (J)	0.052				
2/7/2020	0.0053	0.0045 (J)	0.044				
3/18/2020	0.0057	0.0054					
5/4/2020			0.049				
9/23/2020	0.0059	0.0056	0.056				
2/3/2021			0.06				
2/4/2021	0.0051	0.0047 (J)					
3/8/2021				0.11			
3/9/2021					0.022	0.011	<0.005
3/11/2021	0.005	0.0049 (J)	0.051				
4/7/2021					0.031		<0.005
4/8/2021				0.11		0.0081	
8/25/2021	0.0046 (J)	0.0048 (J)					
8/26/2021			0.057	0.11	0.032	0.011	<0.005

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			0.0215	0.0335
7/20/2016			0.026	0.024
9/14/2016				0.039
9/15/2016			0.057	
11/14/2016			0.017	
2/6/2017			0.012	
2/9/2017				0.04
3/15/2017			0.014	0.035
4/11/2017				0.034
4/26/2017			0.0091	0.029
8/10/2017			0.013	0.038
3/29/2018			0.018	0.048
6/14/2018			0.015	0.034
10/4/2018			0.013	0.039
2/27/2019			0.014	
2/28/2019				0.037
4/3/2019			0.015	0.035
9/19/2019			0.014	0.036
2/5/2020				0.034
2/7/2020			0.014	
3/19/2020			0.015	0.039
9/22/2020			0.013	
9/23/2020				0.033
2/3/2021			0.014	
2/4/2021				0.035
3/8/2021		0.0046 (J)		
3/9/2021	0.0084			
3/11/2021			0.013	
3/12/2021				0.034
4/7/2021	0.0077			
4/8/2021		0.0044 (J)		
8/26/2021	0.0076	0.0044 (J)	0.013	0.03

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0002	<0.0002	<0.0002				
5/18/2016				<0.0002	<0.0002	<0.0002	<0.0002
7/19/2016	<0.0002	8.2E-05 (J)	8.1E-05 (J)			8.5E-05 (J)	8.4E-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		<0.0002
9/14/2016						<0.0002	
11/9/2016	<0.0002	<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		<0.0002
1/19/2017		<0.0002				<0.0002	
3/13/2017	<0.0002		<0.0002				
3/14/2017		7.1E-05 (J)		<0.0002	<0.0002	<0.0002	<0.0002
4/24/2017	<0.0002		<0.0002				
4/25/2017		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
8/8/2017	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
8/9/2017					<0.0002	<0.0002	
3/27/2018	<0.0002		<0.0002				
3/28/2018		<0.0002		<0.0002	<0.0002	8.9E-05 (J)	<0.0002
6/13/2018	<0.0002	<0.0002				<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					
10/2/2018							<0.0002
10/3/2018				<0.0002	<0.0002	<0.0002	
2/25/2019	<0.0002		<0.0002				
2/26/2019		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
2/3/2020	<0.0002		<0.0002				
2/4/2020				0.00016 (J)	0.00011 (J)	<0.0002	<0.0002
2/5/2020		<0.0002					
3/16/2020	<0.0002		<0.0002				
3/17/2020		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
9/21/2020			<0.0002	<0.0002	<0.0002		
9/22/2020	<0.0002	<0.0002				<0.0002	<0.0002
2/2/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/3/2021						<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0002	<0.0002					<0.0002
5/19/2016			<0.0002	<0.0002	<0.0002		
7/19/2016	7.2E-05 (J)						9.3E-05 (J)
7/20/2016		8.2E-05 (J)	8.2E-05 (J)	0.00011 (J)	8.1E-05 (J)		
9/13/2016	<0.0002						
9/14/2016		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
11/10/2016	8.7E-05 (J)				8.3E-05 (J)		8.5E-05 (J)
11/11/2016		8.5E-05 (J)	0.00011 (J)	7.9E-05 (J)			
1/18/2017	<0.0002						
1/24/2017							<0.0002
1/27/2017			<0.0002	<0.0002	<0.0002		
2/6/2017		8.3E-05 (J)					
2/8/2017						<0.0002	
2/23/2017						<0.0002	
3/14/2017	<0.0002						7.1E-05 (J)
3/15/2017		0.00013 (J)	<0.0002	0.00018 (J)	<0.0002		
3/17/2017						0.00013 (J)	
4/11/2017						<0.0002	
4/25/2017	<0.0002						<0.0002
4/26/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
5/17/2017						<0.0002	
6/7/2017						<0.0002	
7/11/2017						<0.0002	
8/8/2017	<0.0002						
8/9/2017					<0.0002		<0.0002
8/10/2017		<0.0002	<0.0002	<0.0002			
3/28/2018	<0.0002						
3/29/2018			<0.0002	0.00011 (J)	<0.0002	<0.0002	
3/30/2018		<0.0002					8.6E-05 (J)
6/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/3/2018	<0.0002						<0.0002
10/4/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/26/2019	<0.0002						
2/27/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/7/2020							<0.0002
3/17/2020	<0.0002						
3/18/2020		<0.0002	<0.0002	<0.0002			<0.0002
3/19/2020					<0.0002	<0.0002	
9/22/2020	<0.0002						
9/23/2020		<0.0002		<0.0002			<0.0002
9/24/2020			<0.0002		<0.0002	<0.0002	
2/2/2021	<0.0002						
2/3/2021			<0.0002	<0.0002			
2/4/2021		<0.0002			<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.0002	<0.0002					
7/19/2016	<0.0002						
7/20/2016		7.4E-05 (J)					
9/14/2016	<0.0002	<0.0002					
11/10/2016	0.00012 (J)	<0.0002					
11/11/2016			7.6E-05 (J)				
1/20/2017		<0.0002					
1/24/2017	7E-05 (J)						
2/6/2017			0.00012 (J)				
3/14/2017		<0.0002					
3/15/2017	<0.0002		<0.0002				
4/11/2017			<0.0002				
4/25/2017	0.00019 (J)	<0.0002					
4/26/2017			<0.0002				
6/7/2017			<0.0002				
7/11/2017			<0.0002				
8/9/2017	<0.0002	<0.0002					
8/10/2017			<0.0002				
3/29/2018	<0.0002		<0.0002				
3/30/2018		<0.0002					
6/14/2018	<0.0002	<0.0002	<0.0002				
10/4/2018	<0.0002	<0.0002	<0.0002				
2/26/2019		<0.0002					
2/27/2019	<0.0002						
2/28/2019			<0.0002				
2/7/2020	<0.0002	<0.0002	<0.0002				
3/18/2020	<0.0002	<0.0002					
5/4/2020			<0.0002				
9/23/2020	<0.0002	<0.0002	<0.0002				
2/3/2021			<0.0002				
2/4/2021	<0.0002	<0.0002					
8/26/2021				0.00033	0.0002	0.00018 (J)	0.00022

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.0002	<0.0002
7/20/2016			<0.0002	<0.0002
9/14/2016				<0.0002
9/15/2016			0.00011 (J)	
11/14/2016			<0.0002	
2/6/2017			7.8E-05 (J)	
2/9/2017				<0.0002
3/15/2017			0.00013 (J)	0.00013 (J)
4/11/2017				<0.0002
4/26/2017			<0.0002	<0.0002
8/10/2017			<0.0002	<0.0002
3/29/2018			<0.0002	<0.0002
6/14/2018			<0.0002	<0.0002
10/4/2018			<0.0002	<0.0002
2/27/2019			<0.0002	
2/28/2019				<0.0002
2/5/2020				<0.0002
2/7/2020			<0.0002	
3/19/2020			<0.0002	<0.0002
9/22/2020			<0.0002	
9/23/2020				<0.0002
2/3/2021			<0.0002	
2/4/2021				<0.0002
8/26/2021	0.00026	0.0019		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.015	0.00367 (J)	<0.015				
5/18/2016				<0.015	<0.015	<0.015	<0.015
7/19/2016	<0.015	0.002 (J)	<0.015			<0.015	<0.015
7/20/2016				<0.015	<0.015		
9/13/2016	<0.015	0.0014 (J)	<0.015	<0.015	<0.015		<0.015
9/14/2016						0.016 (O)	
11/9/2016	<0.015	<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		<0.015
1/19/2017		<0.015				<0.015	
3/13/2017	<0.015		<0.015				
3/14/2017		0.0072 (J)		0.00087 (J)	<0.015	<0.015	<0.015
4/24/2017	<0.015		<0.015				
4/25/2017		0.0036 (J)		0.00098 (J)	<0.015	<0.015	<0.015
8/8/2017	0.0017 (J)	<0.015	<0.015	<0.015			<0.015
8/9/2017					<0.015	<0.015	
3/27/2018	<0.015		<0.015				
3/28/2018		0.00089 (J)		<0.015	<0.015	<0.015	<0.015
6/13/2018	<0.015	<0.015				<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					
10/2/2018							<0.015
10/3/2018				<0.015	<0.015	<0.015	
2/25/2019	<0.015		<0.015				
2/26/2019		0.0019 (J)		<0.015	<0.015	<0.015	<0.015
4/1/2019	<0.015		<0.015				
4/2/2019		<0.015		<0.015	<0.015	<0.015	<0.015
9/16/2019	<0.015					0.001 (J)	0.001 (J)
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	<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	<0.015	<0.015
9/21/2020			<0.015	<0.015	<0.015		
9/22/2020	<0.015	0.00097 (J)				0.0025 (J)	<0.015
2/2/2021	<0.015	<0.015	<0.015	<0.015	<0.015		
2/3/2021						<0.015	<0.015
3/10/2021		<0.015	<0.015	<0.015	<0.015	<0.015	
3/11/2021	<0.015						<0.015
8/23/2021			<0.015				
8/24/2021	<0.015				<0.015	<0.015	<0.015
8/25/2021		<0.015		<0.015			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.015	<0.015					0.0153
5/19/2016			<0.015	<0.015	0.00491 (J)		
7/19/2016	<0.015						0.0093 (J)
7/20/2016		<0.015	<0.015	0.00095 (J)	0.0025 (J)		
9/13/2016	<0.015						
9/14/2016		0.00091 (J)	<0.015	0.0009 (J)	0.0028 (J)		0.012 (J)
11/10/2016	<0.015				0.0016 (J)		0.0065 (J)
11/11/2016		<0.015	<0.015	<0.015			
1/18/2017	0.001 (J)						
1/24/2017							0.0049 (J)
1/27/2017			<0.015	<0.015	0.0023 (J)		
2/6/2017		<0.015					
2/8/2017						<0.015	
2/23/2017						<0.015	
3/14/2017	0.0014 (J)						0.0034 (J)
3/15/2017		<0.015	<0.015	<0.015	0.0022 (J)		
3/17/2017						<0.015	
4/11/2017						<0.015	
4/25/2017	<0.015						0.004 (J)
4/26/2017		<0.015	<0.015	<0.015	0.0019 (J)	<0.015	
5/17/2017						<0.015	
6/7/2017						0.001 (J)	
7/11/2017						<0.015	
8/8/2017	<0.015						
8/9/2017					0.0028 (J)		0.0042 (J)
8/10/2017		0.00093 (J)	0.0011 (J)	0.0046 (J)			
3/28/2018	<0.015						
3/29/2018			<0.015	<0.015	0.0028 (J)	<0.015	
3/30/2018		<0.015					0.0049 (J)
6/14/2018	<0.015	<0.015	<0.015	<0.015	0.0018 (J)	<0.015	0.0056 (J)
10/3/2018	<0.015						0.0041 (J)
10/4/2018		<0.015	<0.015	<0.015	<0.015	<0.015	
2/26/2019	<0.015						
2/27/2019		<0.015	<0.015	0.00063 (J)	0.0019 (J)	<0.015	0.0061
4/2/2019	<0.015						
4/3/2019			<0.015	<0.015	<0.015	<0.015	
4/4/2019		<0.015					0.0039 (J)
9/18/2019	<0.015				0.0021 (J)	<0.015	0.0052
9/19/2019		<0.015	<0.015	0.00073 (J)			
2/5/2020	<0.015	<0.015	<0.015	<0.015	0.0012 (J)	<0.015	
2/7/2020							0.0024 (J)
3/17/2020	<0.015						
3/18/2020		<0.015	<0.015	<0.015			0.002 (J)
3/19/2020					0.0018 (J)	<0.015	
9/22/2020	<0.015						
9/23/2020		<0.015		<0.015			0.0031 (J)
9/24/2020			0.0017 (J)		<0.015	<0.015	
2/2/2021	<0.015						
2/3/2021			<0.015	<0.015			
2/4/2021		<0.015			0.0012 (J)	<0.015	0.0022 (J)
3/10/2021	<0.015						
3/11/2021		<0.015			0.0013 (J)	<0.015	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.015	0.00062 (J)			0.0019 (J)
8/24/2021	<0.015						
8/25/2021			<0.015	<0.015	0.00092 (J)	<0.015	
8/26/2021		<0.015					0.0029 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.015	0.00526 (J)					
7/19/2016	<0.015						
7/20/2016		0.0066 (J)					
9/14/2016	<0.015	0.0081 (J)					
11/10/2016	<0.015	0.0076 (J)					
11/11/2016			<0.015				
1/20/2017		0.0094 (J)					
1/24/2017	<0.015						
2/6/2017			0.001 (J)				
3/14/2017		0.0044 (J)					
3/15/2017	<0.015		<0.015				
4/11/2017			<0.015				
4/25/2017	<0.015	0.0074 (J)					
4/26/2017			<0.015				
6/7/2017			0.0015 (J)				
7/11/2017			<0.015				
8/9/2017	<0.015	0.0066 (J)					
8/10/2017			0.0016 (J)				
3/29/2018	<0.015		0.0012 (J)				
3/30/2018		0.0024 (J)					
6/14/2018	<0.015	0.0026 (J)	0.0014 (J)				
10/4/2018	<0.015	0.00085 (J)	<0.015				
2/26/2019		0.0032 (J)					
2/27/2019	<0.015						
2/28/2019			0.0013 (J)				
4/2/2019			<0.015				
4/4/2019	<0.015	0.002 (J)					
9/18/2019	<0.015	0.0026 (J)	0.0011 (J)				
2/7/2020	<0.015	0.0025 (J)	0.0014 (J)				
3/18/2020	<0.015	0.0024 (J)					
5/4/2020			0.0013 (J)				
9/23/2020	<0.015	0.0027 (J)	0.0013 (J)				
2/3/2021			0.0013 (J)				
2/4/2021	<0.015	0.0025 (J)					
3/11/2021	<0.015	0.0022 (J)	0.0012 (J)				
8/25/2021	<0.015	0.0022 (J)					
8/26/2021			0.0011 (J)	0.00079 (J)	0.044	<0.015	<0.015

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.015	0.00762 (J)
7/20/2016			<0.015	0.0084 (J)
9/14/2016				0.0071 (J)
9/15/2016			<0.015	
11/14/2016			<0.015	
2/6/2017			<0.015	
2/9/2017				0.018
3/15/2017			<0.015	0.0057 (J)
4/11/2017				0.0047 (J)
4/26/2017			<0.015	0.004 (J)
8/10/2017			<0.015	0.0046 (J)
3/29/2018			<0.015	0.0048 (J)
6/14/2018			<0.015	0.0046 (J)
10/4/2018			<0.015	0.003 (J)
2/27/2019			<0.015	
2/28/2019				0.0053
4/3/2019			<0.015	0.0026 (J)
9/19/2019			<0.015	0.0048 (J)
2/5/2020				0.0044 (J)
2/7/2020			<0.015	
3/19/2020			<0.015	0.0042 (J)
9/22/2020			<0.015	
9/23/2020				0.0027 (J)
2/3/2021			<0.015	
2/4/2021				0.003 (J)
3/11/2021			<0.015	
3/12/2021				0.003 (J)
8/26/2021	<0.015	<0.015	<0.015	0.0028 (J)

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	5.24	7.81	6.23				
5/18/2016				5.55	7.23	5.47	7.92
7/18/2016	5.434038						
7/19/2016			6.285413			5.336672	7.154587
7/20/2016				5.656628	7.281557		
9/13/2016	5.22	7.18	6.3	5.63	7.15		7.96
9/14/2016						7.29	
11/9/2016	5.57	6.03	6.26				7.27
11/10/2016				5.61	6.33		
1/17/2017	5.48		6.8				
1/18/2017				5.81	6.94		7.72
1/19/2017		6.71				6.59	
3/13/2017	5.4		6.18				
3/14/2017		6.45		5.53	6.75	5.86	
4/24/2017	5.4		6.35				
4/25/2017		6.93		5.59	6.84	5.35	7.73
8/8/2017	5.32	6.72	6.23	5.52			7.74
8/9/2017					6.67	5.25	
8/25/2017						5.44	
10/10/2017	5.26		6.32				
10/11/2017		6.75		5.51	6.75	6.99	7.71
3/27/2018	5.39		6.14				
3/28/2018		6.84		5.6	6.79	5.95	7.28
6/13/2018	5.33	6.31				5.13	7.78
6/14/2018			6.02	5.58	6.67		
9/24/2018			6.1				
9/27/2018	5.33						
9/28/2018		6.26					
10/2/2018							7.52
10/3/2018				5.45	6.92	5.22	
2/25/2019	5.25		6.02				
2/26/2019		7.66		5.6	6.74	5.21	7.87
4/1/2019	5.31		6.09				
4/2/2019		7.53		5.69	6.81	5.25	7.94
9/16/2019	5.28					6.94	7.55
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	5.31	7.74
2/5/2020		6.73					
3/16/2020	5.29		6.01				
3/17/2020		6.36		5.61	6.83	5.34	7.96
9/21/2020			6.05	5.35	6.81		
9/22/2020	5.09	7.18				6.78	7.4
2/2/2021	5.36	6.48	6.1	5.78	6.61		
2/3/2021						5.3	7.76
3/10/2021		5.8	6.11	5.49	7.19	5.22	
3/11/2021	5.26						7.93
8/23/2021			6.18				
8/24/2021	5.21				7.22	6.8	7.88
8/25/2021		6.74		5.52			

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	5.5	8.96					7.75
5/19/2016			5.93	6.91	6.85		
7/18/2016			5.9661				
7/19/2016	5.43						7.876073
7/20/2016		8.56774		6.962608	6.705264		
9/1/2016				6.96			
9/13/2016	5.57						
9/14/2016					6.7		7.79
11/10/2016	6.93				6.5		7.76
11/11/2016		6.96	6.03	6.76			
1/18/2017	7.16						
1/24/2017							7.71
1/27/2017			6.21	6.66	6.47		
2/6/2017		6.93					
2/8/2017						5.81	
2/23/2017						5.8	
3/14/2017	5.82						7.57
3/15/2017		6.82	5.97	6.3	6.75		
3/17/2017						5.97	
4/11/2017						6.18	
4/25/2017	5.57						7.47
4/26/2017		6.73	6.17	6.67	6.57	6.09	
5/17/2017						6.26	
6/7/2017						6.21	
7/11/2017						6	
8/8/2017	5.6						
8/9/2017					6.55		7.37
8/10/2017		6.66	6.05	6.7			
10/11/2017	5.43					6.97	7.42
10/12/2017		6.67	6.89	6.89	6.67		
3/28/2018	5.29						
3/29/2018			6.85	7.08	6.99	6.51	
3/30/2018		6.98					7.48
6/14/2018	5.39	6.56	5.89	6.73	6.39	5.76	7.5
10/3/2018	5.33						7.11
10/4/2018		6.4	5.81	6.79	6.5	5.97	
2/26/2019	5.62						
2/27/2019		6.23	5.78	6.7	6.47	5.73	7.4
4/2/2019	5.6						
4/3/2019			6.07	6.91	6.47	5.68	
4/4/2019		6.46					7.58
9/18/2019	5.6				6.46	5.5	7.8
9/19/2019		6.45	5.82	6.63			
2/5/2020	5.54	6.42	5.89	6.76	6.44	5.52	
2/7/2020							7.66
3/17/2020	5.32						
3/18/2020		6.4	5.89	6.94			7.73
3/19/2020					6.56	5.49	
9/22/2020	5.36						
9/23/2020		6.14		6.42			7.35
9/24/2020			5.5		6.29	5.16	
2/2/2021	5.84						

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/3/2021			5.21	6.15			
2/4/2021		6.21			6.34	5.76	7.77
3/10/2021	4.96						
3/11/2021		6.56			5.95	5.1	
3/12/2021			5.46	6.66			7.72
8/24/2021	5.53						
8/25/2021			5.66	6.69	6.27	5.39	
8/26/2021		6.31					7.58

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	6.06	6.41					
7/18/2016	5.884339						
7/20/2016		6.662463					
9/14/2016	5.89	6.7					
11/10/2016	5.6	6.51					
11/11/2016			6.93				
1/20/2017		6.55					
1/24/2017	5.54						
2/6/2017			6.8				
3/14/2017		6.27					
3/15/2017	5.39		6.78				
4/11/2017			6.79				
4/25/2017	5.28	6.26					
4/26/2017			6.82				
6/7/2017			6.76				
7/11/2017			6.99				
8/9/2017	5.46	6.47					
8/10/2017			6.59				
10/11/2017	5.45	6.47					
10/12/2017			6.7				
3/29/2018	5.33		6.88				
3/30/2018		6.71					
6/14/2018	5.35	6.15	6.72				
10/4/2018	5.28	6.14	6.67				
2/26/2019		6.17					
2/27/2019	5.08						
2/28/2019			6.98				
4/2/2019			6.75				
4/4/2019	5.19	6.16					
9/18/2019	5.19	6.17	6.71				
2/7/2020	5.17	6.34	7.08				
3/18/2020	5.08	6.28					
5/4/2020			6.9				
9/23/2020	5.05	5.89	6.59				
2/3/2021			6.75				
2/4/2021	5.42	6.31					
3/8/2021				5.54			
3/9/2021					7.29	5.56	5.81
3/11/2021	5.21	5.96	7.12				
4/7/2021					7.05		5.57
4/8/2021				5.6		6.01	
8/25/2021	5.25	6.09					
8/26/2021			6.66	5.37	6.88	5.4	5.8

Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			5.99	6.31
7/20/2016			6.194334	6.345061
9/14/2016				6.33
9/15/2016			6.38	
11/14/2016			5.7	
2/6/2017			5.66	
3/15/2017			5.77	5.99
4/26/2017			5.39	6.03
8/10/2017			5.59	5.86
10/12/2017			5.46	6.09
3/29/2018			5.43	5.89
6/14/2018			5.76	6.47
10/4/2018			5.39	6.17
2/28/2019				6.045 (D)
4/3/2019			5.55	6.1
9/19/2019			5.39	6.38
2/5/2020				6.54
2/7/2020			5.38	
3/19/2020			6.43	6.64
9/22/2020			5.17	
9/23/2020				5.8
2/3/2021			5.08	
2/4/2021				6.22
3/8/2021		5.36		
3/9/2021	4.29			
3/11/2021			5.35	
3/12/2021				5.88
4/7/2021	4.43			
4/8/2021		5.39		
8/26/2021	4.33	5.3	5.36	5.84

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.005	<0.005	<0.005				
5/18/2016				<0.005	<0.005	<0.005	<0.005
7/19/2016	<0.005	<0.005	<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		<0.005
9/14/2016						<0.005	
11/9/2016	<0.005	<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		<0.005
1/19/2017		<0.005				<0.005	
3/13/2017	<0.005		<0.005				
3/14/2017		0.0028		0.00026 (J)	<0.005	<0.005	<0.005
4/24/2017	<0.005		<0.005				
4/25/2017		0.0018		0.00035 (J)	<0.005	<0.005	<0.005
8/8/2017	0.0013	<0.005	<0.005	<0.005			<0.005
8/9/2017					<0.005	<0.005	
3/27/2018	0.00055 (J)		<0.005				
3/28/2018		<0.005		<0.005	<0.005	<0.005	<0.005
6/13/2018	<0.005	<0.005				0.00025 (J)	<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					
10/2/2018							<0.005
10/3/2018				<0.005	<0.005	<0.005	
2/25/2019	<0.005		<0.005				
2/26/2019		<0.005		<0.005	<0.005	<0.005	<0.005
4/1/2019	<0.005		<0.005				
4/2/2019		<0.005		<0.005	<0.005	<0.005	<0.005
9/16/2019	<0.005					<0.005	<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	<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	<0.005	<0.005
9/21/2020			<0.005	<0.005	<0.005		
9/22/2020	<0.005	<0.005				<0.005	<0.005
2/2/2021	<0.005	<0.005	<0.005	<0.005	<0.005		
2/3/2021						<0.005	<0.005
3/10/2021		<0.005	<0.005	<0.005	<0.005	<0.005	
3/11/2021	<0.005						<0.005
8/23/2021			<0.005				
8/24/2021	<0.005				<0.005	<0.005	<0.005
8/25/2021		<0.005		<0.005			

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.005	<0.005					<0.005
5/19/2016			<0.005	<0.005	<0.005		
7/19/2016	<0.005						<0.005
7/20/2016		<0.005	<0.005	<0.005	<0.005		
9/13/2016	<0.005						
9/14/2016		<0.005	<0.005	<0.005	<0.005		<0.005
11/10/2016	<0.005				<0.005		<0.005
11/11/2016		<0.005	<0.005	<0.005			
1/18/2017	<0.005						
1/24/2017							<0.005
1/27/2017			<0.005	<0.005	<0.005		
2/6/2017		<0.005					
2/8/2017						<0.005	
2/23/2017						<0.005	
3/14/2017	<0.005						<0.005
3/15/2017		<0.005	<0.005	<0.005	<0.005		
3/17/2017						<0.005	
4/11/2017						<0.005	
4/25/2017	<0.005						<0.005
4/26/2017		<0.005	<0.005	<0.005	<0.005	<0.005	
5/17/2017						<0.005	
6/7/2017						<0.005	
7/11/2017						<0.005	
8/8/2017	<0.005						
8/9/2017					<0.005		<0.005
8/10/2017		0.00031 (J)	0.00049 (J)	0.0021			
3/28/2018	<0.005						
3/29/2018			<0.005	<0.005	<0.005	0.0003 (J)	
3/30/2018		<0.005					<0.005
6/14/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0005 (J)
10/3/2018	<0.005						<0.005
10/4/2018		<0.005	<0.005	<0.005	<0.005	<0.005	
2/26/2019	<0.005						
2/27/2019		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/2/2019	<0.005						
4/3/2019			<0.005	<0.005	<0.005	<0.005	
4/4/2019		<0.005					<0.005
9/18/2019	<0.005				<0.005	<0.005	<0.005
9/19/2019		<0.005	<0.005	<0.005			
2/5/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/7/2020							<0.005
3/17/2020	<0.005						
3/18/2020		<0.005	<0.005	<0.005			<0.005
3/19/2020					<0.005	<0.005	
9/22/2020	<0.005						
9/23/2020		<0.005		<0.005			<0.005
9/24/2020			<0.005		<0.005	<0.005	
2/2/2021	<0.005						
2/3/2021			<0.005	<0.005			
2/4/2021		<0.005			<0.005	<0.005	<0.005
3/10/2021	<0.005						
3/11/2021		<0.005			<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.005	<0.005			<0.005
8/24/2021	<0.005						
8/25/2021			<0.005	<0.005	<0.005	<0.005	
8/26/2021		<0.005					<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.00735	<0.005					
7/19/2016	0.0075						
7/20/2016		<0.005					
9/14/2016	0.0091	<0.005					
11/10/2016	0.0056	<0.005					
11/11/2016			<0.005				
1/20/2017		<0.005					
1/24/2017	0.012						
2/6/2017			<0.005				
3/14/2017		<0.005					
3/15/2017	0.012		<0.005				
4/11/2017			<0.005				
4/25/2017	0.013	<0.005					
4/26/2017			<0.005				
6/7/2017			<0.005				
7/11/2017			<0.005				
8/9/2017	0.016	<0.005					
8/10/2017			0.00036 (J)				
3/29/2018	0.016		<0.005				
3/30/2018		<0.005					
6/14/2018	0.012	<0.005	<0.005				
10/4/2018	0.013	<0.005	<0.005				
2/26/2019		<0.005					
2/27/2019	0.0081						
2/28/2019			<0.005				
4/2/2019			<0.005				
4/4/2019	0.0091	<0.005					
9/18/2019	0.0044 (J)	<0.005	<0.005				
2/7/2020	0.0036 (J)	<0.005	<0.005				
3/18/2020	0.0046 (J)	<0.005					
5/4/2020			<0.005				
9/23/2020	0.0028 (J)	<0.005	<0.005				
2/3/2021			<0.005				
2/4/2021	0.0023 (J)	<0.005					
3/11/2021	0.0023 (J)	<0.005	<0.005				
8/25/2021	0.0019 (J)	<0.005					
8/26/2021			<0.005	0.0016 (J)	<0.005	0.0049 (J)	0.002 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			0.00518	0.00228
7/20/2016			0.0038	0.0016
9/14/2016				0.0024
9/15/2016			0.0034	
11/14/2016			0.0033	
2/6/2017			0.0033	
2/9/2017				0.0023
3/15/2017			0.003	0.0031
4/11/2017				0.0023
4/26/2017			0.0032	0.0019
8/10/2017			0.0031	0.0021
3/29/2018			0.0034	0.0021
6/14/2018			0.0031	0.0025
10/4/2018			0.0033	0.002
2/27/2019			0.0035	
2/28/2019				0.0027
4/3/2019			0.0031	0.0019
9/19/2019			0.0021 (J)	0.0026 (J)
2/5/2020				0.0033 (J)
2/7/2020			0.0048 (J)	
3/19/2020			0.0037 (J)	0.0033 (J)
9/22/2020			0.0039 (J)	
9/23/2020				0.0029 (J)
2/3/2021			0.0036 (J)	
2/4/2021				0.003 (J)
3/11/2021			0.0038 (J)	
3/12/2021				0.0034 (J)
8/26/2021	<0.005	<0.005	0.0037 (J)	0.0028 (J)

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<1	19.9	1.14				
5/18/2016				0.821 (J)	5.32	0.955 (J)	8.88
7/19/2016	<1	14	1.4			0.76 (J)	9
7/20/2016				0.82 (J)	6.5		
9/13/2016	<1	11	1.1	0.81 (J)	5.6		8.5
9/14/2016						3.4	
11/9/2016	<1	6.3	1.1				8.2
11/10/2016				0.73 (J)	5.4		
1/17/2017	<1		2.1				
1/18/2017				0.99 (J)	5.1		9.4
1/19/2017		7.4				21	
3/13/2017	<1		0.97 (J)				
3/14/2017		10		0.83 (J)	4.6	1.4	2
4/24/2017	<1		0.75 (J)				
4/25/2017		10		0.7 (J)	6.6	0.89 (J)	8.2
8/8/2017	<1	12	1.1	0.82 (J)			8.5
8/9/2017					7.3	0.75 (J)	
10/10/2017	<1		1.3				
10/11/2017		11		0.72 (J)	6.8	<1	8.3
6/13/2018	<1	8.2				<1	8.3
6/14/2018			0.84 (J)	<1	6.9		
9/24/2018			0.79 (J)				
9/27/2018	<1						
9/28/2018		7.6					
10/2/2018							8.3
10/3/2018				0.73 (J)	7	<1	
4/1/2019	<1		1				
4/2/2019		11		1.1	8.1	0.94 (J)	8.5
9/16/2019	0.49 (J)					2.2	8.9
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	4	12
9/21/2020			1.1	0.77 (J)	7.7		
9/22/2020	<1	9				1.5	8
3/10/2021		7.1	0.9 (J)	0.91 (J)	8.1	<1	
3/11/2021	<1						8.4
8/23/2021			1.3				
8/24/2021	<1				7.9	2.8	8.9
8/25/2021		8.2		0.79 (J)			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.368 (J)	2.84					50.7
5/19/2016			1.83	15.8	19.2		
7/19/2016	<1						62
7/20/2016		2.8	1.6	16	11		
9/13/2016	<1						
9/14/2016		2.8	1.5	16	8.6		79
11/10/2016	<1				5.7		61
11/11/2016		2.6	1.4	14			
1/18/2017	1.4						
1/24/2017							34
1/27/2017			2.5	15	6.8		
2/6/2017		2.7					
2/8/2017						4.3	
2/23/2017						16	
3/14/2017	<1						43
3/15/2017		2.7	2.5	17	11		
3/17/2017						22	
4/11/2017						13	
4/25/2017	<1						39
4/26/2017		2.5	2.2	15	8.1	20	
5/17/2017						12	
6/7/2017						8.1	
7/11/2017						17	
8/8/2017	<1						
8/9/2017					8.1		35
8/10/2017		2.2	2.3	16			
10/11/2017	<1					3.4	48
10/12/2017		1.9	1.9	14	6.1		
6/14/2018	<1	2	1.7	14	5	5.8	44
10/3/2018	<1						49
10/4/2018		1.9	1.6	14	4.3	2.8	
4/2/2019	0.4 (J)						
4/3/2019			1.9	13	3.8	3.8	
4/4/2019		2.2					41
9/18/2019	<1				3.9	1.7	37
9/19/2019		2.1	1.3	14			
3/17/2020	0.86 (J)						
3/18/2020		2.1	1.6	12			17
3/19/2020					4	1.5	
9/22/2020	0.38 (J)						
9/23/2020		1.8		12			21
9/24/2020			2.7		0.63 (J)	1.2	
3/10/2021	<1						
3/11/2021		2.8			2.9	1.7	
3/12/2021			2	14			19
8/24/2021	<1						
8/25/2021			1.1	13	1.8	<1	
8/26/2021		1.8					16

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	388	32.1					
7/19/2016	460						
7/20/2016		9.7					
9/14/2016	500	6.6					
11/10/2016	530	5.2					
11/11/2016			3.4				
1/20/2017		5.3					
1/24/2017	600						
2/6/2017			3.7				
3/14/2017		9.6					
3/15/2017	610		3.6				
4/11/2017			3.2				
4/25/2017	620	20					
4/26/2017			3.3				
6/7/2017			3.8				
7/11/2017			3.3				
8/9/2017	780	6.5					
8/10/2017			3.7				
10/11/2017	720	13					
10/12/2017			3.6				
6/14/2018	620	16	3.5				
10/4/2018	560	15	4.6				
4/2/2019			3.8				
4/4/2019	250	9.1					
9/18/2019	130	7.3	3.6				
3/18/2020	120	4.2					
5/4/2020			4.5				
9/23/2020	85	4.4	3				
3/8/2021				240			
3/9/2021					230	80	14
3/11/2021	64	3.9	4				
4/7/2021					190		5.1
4/8/2021				240		60	
8/25/2021	63	3.3					
8/26/2021			3.5	290	190	100	7.5

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			146	35.9
7/20/2016			150	37
9/14/2016				39
9/15/2016			140	
11/14/2016			160	
2/6/2017			180	
2/9/2017				60
3/15/2017			170	44
4/11/2017				36
4/26/2017			180	37
8/10/2017			180	38
10/12/2017			180	37
6/14/2018			170	37
10/4/2018			780	38
4/3/2019			180	41
9/19/2019			190	42
3/19/2020			200	45
9/22/2020			200	
9/23/2020				54
3/8/2021		4.7		
3/9/2021	140			
3/11/2021			220	
3/12/2021				62
4/7/2021	160			
4/8/2021		5.8		
8/26/2021	170	13	220	52

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.001	<0.001	<0.001				
5/18/2016				<0.001	<0.001	<0.001	<0.001
7/19/2016	<0.001	<0.001	<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		<0.001
9/14/2016						9E-05 (J)	
11/9/2016	<0.001	<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		<0.001
1/19/2017		<0.001				<0.001	
3/13/2017	<0.001		<0.001				
3/14/2017		<0.001		<0.001	<0.001	<0.001	<0.001
4/24/2017	<0.001		<0.001				
4/25/2017		<0.001		<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001			<0.001
8/9/2017					<0.001	<0.001	
3/27/2018	<0.001		<0.001				
3/28/2018		<0.001		<0.001	<0.001	<0.001	<0.001
6/13/2018	<0.001	<0.001				<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					
10/2/2018							<0.001
10/3/2018				<0.001	<0.001	<0.001	
2/25/2019	<0.001		<0.001				
2/26/2019		<0.001		<0.001	<0.001	<0.001	<0.001
4/1/2019	<0.001		<0.001				
4/2/2019		<0.001		<0.001	<0.001	<0.001	<0.001
9/16/2019	0.00016 (J)					<0.001	0.00062 (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	<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	<0.001	<0.001
9/21/2020			<0.001	<0.001	<0.001		
9/22/2020	<0.001	<0.001				<0.001	<0.001
2/2/2021	<0.001	<0.001	0.0004 (J)	<0.001	<0.001		
2/3/2021						0.00042 (J)	<0.001
3/10/2021		<0.001	0.00073 (J)	0.00028 (J)	0.00017 (J)	<0.001	
3/11/2021	0.00045 (J)						<0.001
8/23/2021			<0.001				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.001					<0.001
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						<0.001
7/20/2016		<0.001	<0.001	<0.001	<0.001		
9/13/2016	<0.001						
9/14/2016		<0.001	<0.001	<0.001	<0.001		<0.001
11/10/2016	<0.001				<0.001		<0.001
11/11/2016		<0.001	<0.001	<0.001			
1/18/2017	<0.001						
1/24/2017							<0.001
1/27/2017			<0.001	<0.001	<0.001		
2/6/2017		<0.001					
2/8/2017						0.00011 (J)	
2/23/2017						0.00012 (J)	
3/14/2017	<0.001						<0.001
3/15/2017		<0.001	<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	<0.001	<0.001	
5/17/2017						<0.001	
6/7/2017						<0.001	
7/11/2017						<0.001	
8/8/2017	<0.001						
8/9/2017					<0.001		<0.001
8/10/2017		<0.001	<0.001	<0.001			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	<0.001	0.0002 (J)	
3/30/2018		8.5E-05 (J)					<0.001
6/14/2018	<0.001	<0.001	<0.001	<0.001	<0.001	0.00014 (J)	<0.001
10/3/2018	<0.001						<0.001
10/4/2018		<0.001	<0.001	<0.001	<0.001	0.00013 (J)	
2/26/2019	<0.001						
2/27/2019		<0.001	<0.001	<0.001	<0.001	0.00016 (J)	<0.001
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	<0.001	0.00012 (J)	
4/4/2019		<0.001					<0.001
9/18/2019	<0.001				<0.001	<0.001	<0.001
9/19/2019		<0.001	<0.001	<0.001			
2/5/2020	0.00026 (J)	<0.001	<0.001	<0.001	<0.001	0.00022 (J)	
2/7/2020							<0.001
3/17/2020	<0.001						
3/18/2020		<0.001	<0.001	<0.001			<0.001
3/19/2020					<0.001	0.00017 (J)	
9/22/2020	<0.001						
9/23/2020		<0.001		<0.001			<0.001
9/24/2020			<0.001		<0.001	<0.001	
2/2/2021	<0.001						
2/3/2021			0.00016 (J)	<0.001			
2/4/2021		<0.001			<0.001	0.00021 (J)	<0.001
3/10/2021	<0.001						
3/11/2021		<0.001			<0.001	0.00019 (J)	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.001	<0.001			<0.001
8/24/2021	<0.001						
8/25/2021			<0.001	<0.001	<0.001	<0.001	
8/26/2021		<0.001					<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	8.5E-05 (J)						
7/20/2016		<0.001					
9/14/2016	0.00017 (J)	<0.001					
11/10/2016	0.00017 (J)	<0.001					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	0.00023 (J)						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	0.00021 (J)		<0.001				
4/11/2017			<0.001				
4/25/2017	0.00024 (J)	<0.001					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	0.0002 (J)	<0.001					
8/10/2017			<0.001				
3/29/2018	0.00019 (J)		<0.001				
3/30/2018		<0.001					
6/14/2018	0.00017 (J)	<0.001	<0.001				
10/4/2018	0.00015 (J)	<0.001	<0.001				
2/26/2019		<0.001					
2/27/2019	0.00015 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	9.5E-05 (J)	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	<0.001	<0.001				
3/18/2020	<0.001	<0.001					
5/4/2020			<0.001				
9/23/2020	<0.001	<0.001	<0.001				
2/3/2021			0.00018 (J)				
2/4/2021	<0.001	<0.001					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.001	<0.001
7/20/2016			<0.001	<0.001
9/14/2016				<0.001
9/15/2016			<0.001	
11/14/2016			<0.001	
2/6/2017			<0.001	
2/9/2017				<0.001
3/15/2017			<0.001	<0.001
4/11/2017				<0.001
4/26/2017			<0.001	<0.001
8/10/2017			<0.001	<0.001
3/29/2018			<0.001	<0.001
6/14/2018			<0.001	<0.001
10/4/2018			<0.001	<0.001
2/27/2019			<0.001	
2/28/2019				<0.001
4/3/2019			<0.001	<0.001
9/19/2019			<0.001	<0.001
2/5/2020				<0.001
2/7/2020			<0.001	
3/19/2020			<0.001	<0.001
9/22/2020			<0.001	
9/23/2020				<0.001
2/3/2021			<0.001	
2/4/2021				<0.001
3/11/2021			<0.001	
3/12/2021				<0.001
8/26/2021	0.00072 (J)	<0.001	<0.001	<0.001

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<10	112	100				
5/18/2016				29	101	33	113
7/19/2016	14	80	84			<10	92
7/20/2016				<10	86		
9/13/2016	50	120	70	12	28		100
9/14/2016						150	
11/9/2016	22	76	110				130
11/10/2016				30	110		
1/17/2017	8		120				
1/18/2017				22	98		120
1/19/2017		36				34	
3/13/2017	<10		58				
3/14/2017		70		22	110	32	110
4/24/2017	10		94				
4/25/2017		70		22	86	22	100
8/8/2017	<10	72	62	4 (J)			90
8/9/2017					92	20	
10/10/2017	44		140				
10/11/2017		90		10	110	4 (J)	98
6/13/2018	24	38				<10	110
6/14/2018			80	26	92		
9/24/2018			76				
9/27/2018	28						
9/28/2018		68					
10/2/2018							130
10/3/2018				50	100	24	
4/1/2019	<10		63				
4/2/2019		100		28	100	25	110
9/16/2019	27					41	110
9/17/2019		76	120		120		
9/18/2019				36			
3/16/2020	23		90				
3/17/2020		81		20	100	18	120
9/21/2020			100	22	92		
9/22/2020	24	96				190	130
3/10/2021		72	100	20	100	19	
3/11/2021	24						110
8/23/2021			110				
8/24/2021	32				110	150	120
8/25/2021		92		21			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	31	70					190
5/19/2016			39	101	127		
7/19/2016	<10						180
7/20/2016		42	<10	76	88		
9/13/2016	<10						
9/14/2016		40	24	96	92		230
11/10/2016	44				100		210
11/11/2016		72	42	100			
1/18/2017	50						
1/24/2017							140
1/27/2017			18	50	80		
2/6/2017		24					
2/8/2017						54	
2/23/2017						78	
3/14/2017	26						220
3/15/2017		78	54	120	100		
3/17/2017						56	
4/11/2017						76	
4/25/2017	10						180
4/26/2017		48	42	100	92	76	
5/17/2017						68	
6/7/2017						72	
7/11/2017						68	
8/8/2017	<10						
8/9/2017					120		180
8/10/2017		38	30	96			
10/11/2017	42					68	200
10/12/2017		72	54	100	110		
6/14/2018	14	40	16	94	88	52	170
10/3/2018	6						260
10/4/2018		60	56	110	100	130	
4/2/2019	15						
4/3/2019			<10	66	72	31	
4/4/2019		30					170
9/18/2019	35				110	33	160
9/19/2019		52	27	89			
3/17/2020	19						
3/18/2020		58	26	73			160
3/19/2020					95	18	
9/22/2020	15						
9/23/2020		50		90			150
9/24/2020			60		21	24	
3/10/2021	20						
3/11/2021		52			63	24	
3/12/2021			27	78			130
8/24/2021	24						
8/25/2021			32	110	53	30	
8/26/2021		60					150

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	1080	107					
7/19/2016	1200						
7/20/2016		78					
9/14/2016	1300	82					
11/10/2016	1400	98					
11/11/2016			98				
1/20/2017		82					
1/24/2017	1300						
2/6/2017			36				
3/14/2017		120					
3/15/2017	1500		120				
4/11/2017			68				
4/25/2017	1700	120					
4/26/2017			76				
6/7/2017			74				
7/11/2017			70				
8/9/2017	1900	92					
8/10/2017			66				
10/11/2017	1900	74					
10/12/2017			100				
6/14/2018	1500	100	74				
10/4/2018	1700	98	100				
4/2/2019			88				
4/4/2019	710	89					
9/18/2019	520	79	96				
3/18/2020	370	98					
5/4/2020			110				
9/23/2020	250	60	94				
3/8/2021				590			
3/9/2021					610	200	79
3/11/2021	190	75	100				
4/7/2021					520		66
4/8/2021				540		170	
8/25/2021	220	84					
8/26/2021			94	720	480	240	88

Time Series

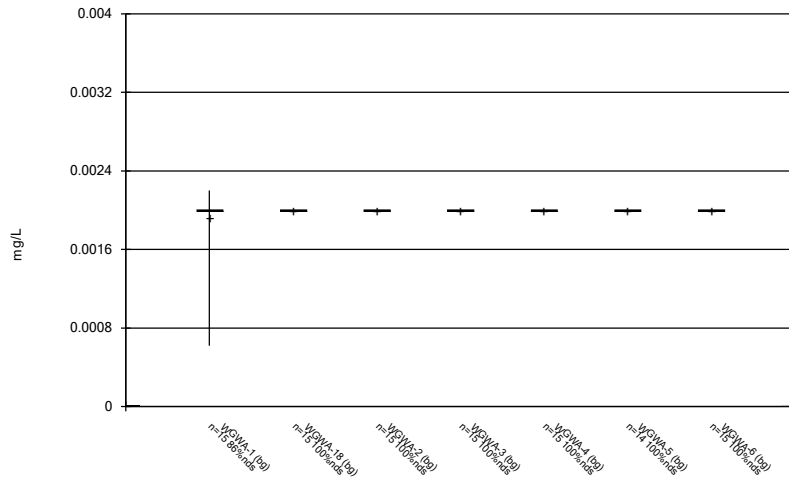
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/15/2021 4:21 PM View: Appendix III & IV

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			311	134
7/20/2016			290	120
9/14/2016				140
9/15/2016			270	
11/14/2016			320	
2/6/2017			330	
2/9/2017				180
3/15/2017			370	160
4/11/2017				120
4/26/2017			380	140
8/10/2017			380	130
10/12/2017			450	120
6/14/2018			410	120
10/4/2018			520	140
4/3/2019			430	120
9/19/2019			440	130
3/19/2020			540	160
9/22/2020			600	
9/23/2020				150
3/8/2021		220		
3/9/2021	370			
3/11/2021			530	
3/12/2021				130
4/7/2021	510			
4/8/2021		180		
8/26/2021	420	200	550	170

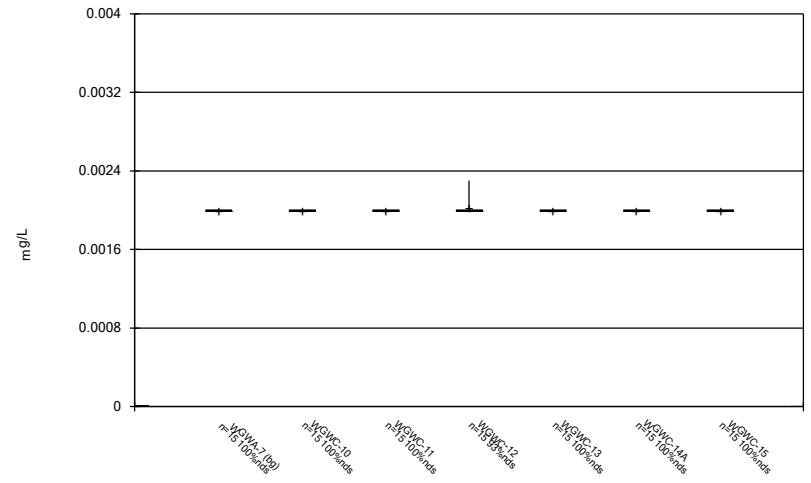
FIGURE B.

Box & Whiskers Plot



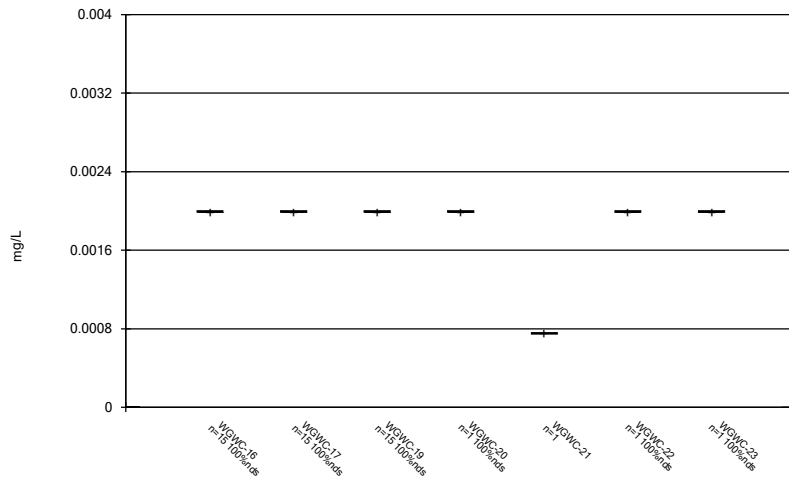
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



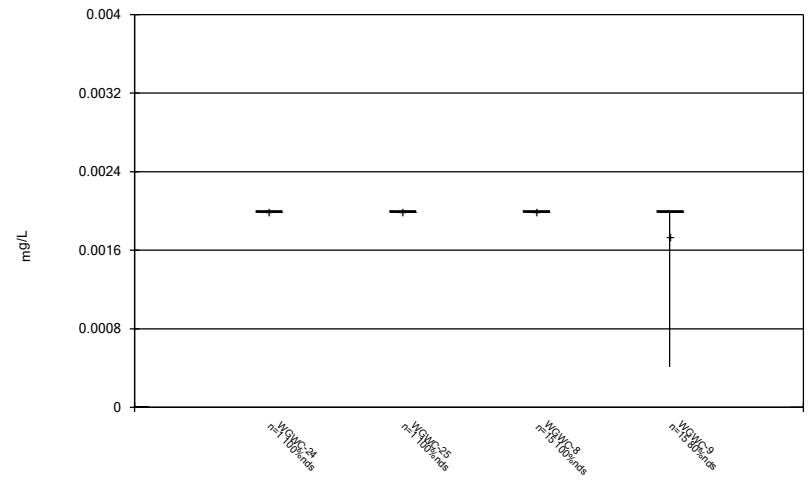
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



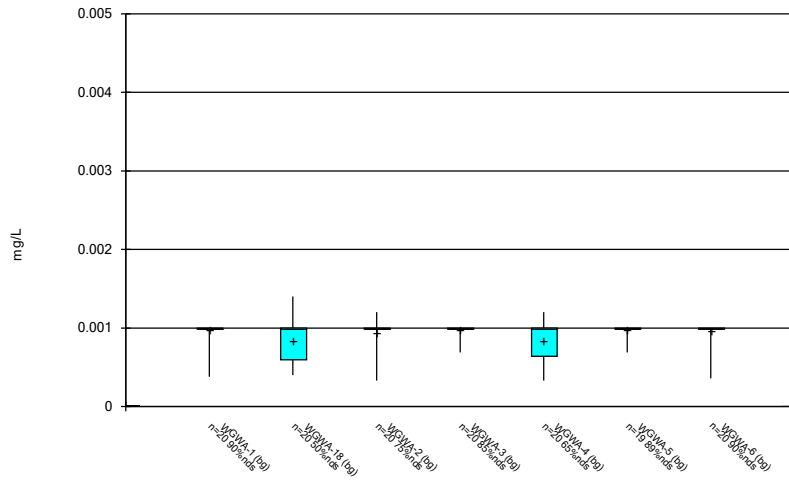
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



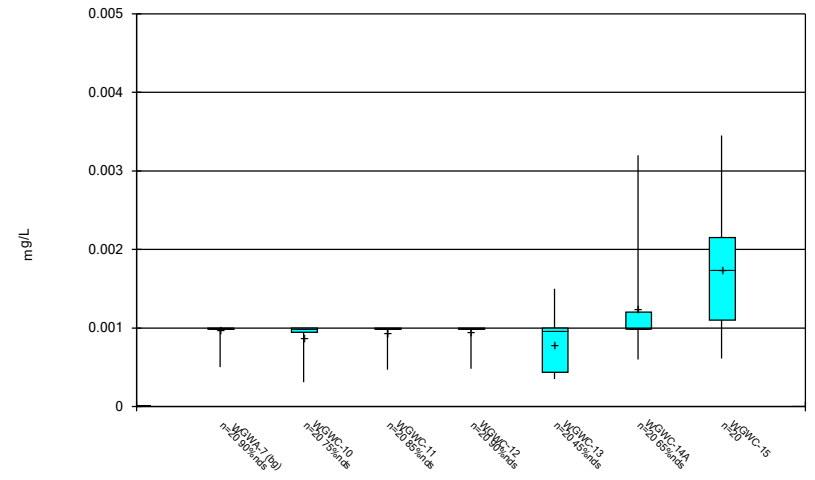
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



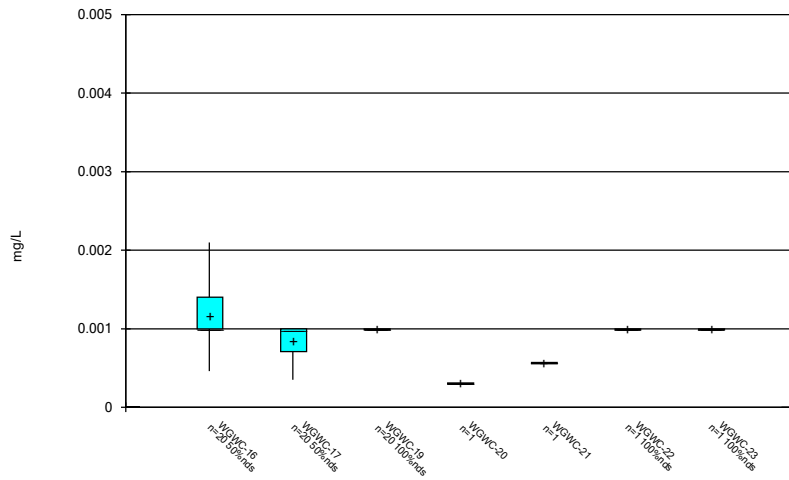
Constituent: Arsenic Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



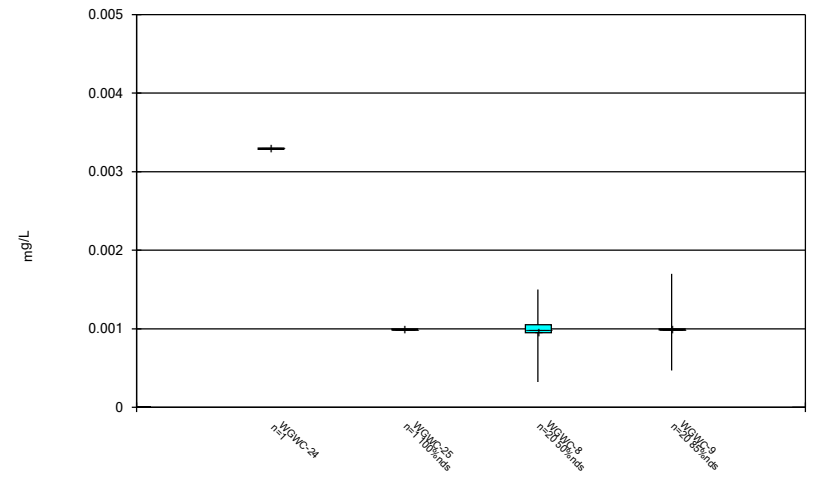
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



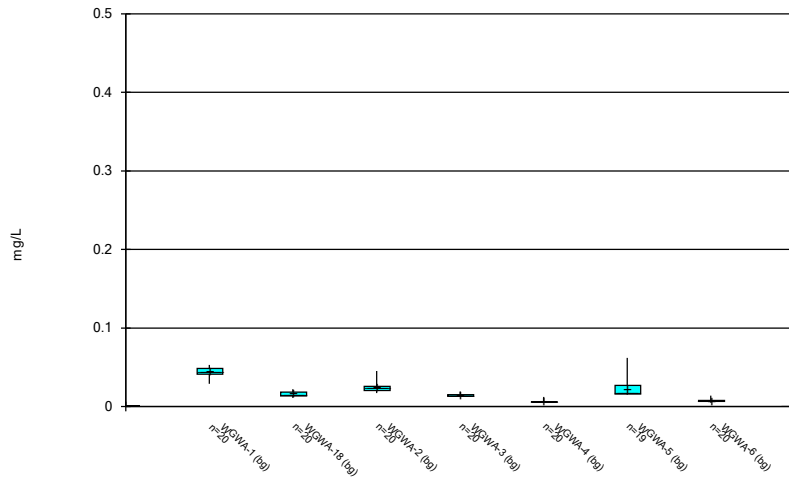
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



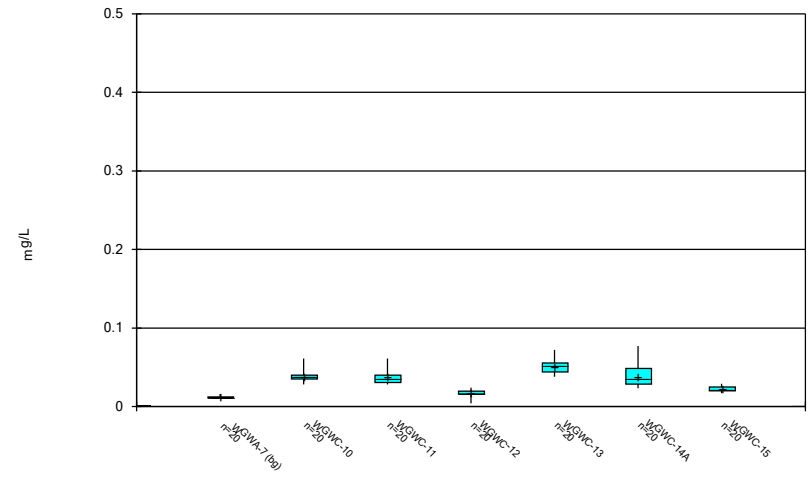
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



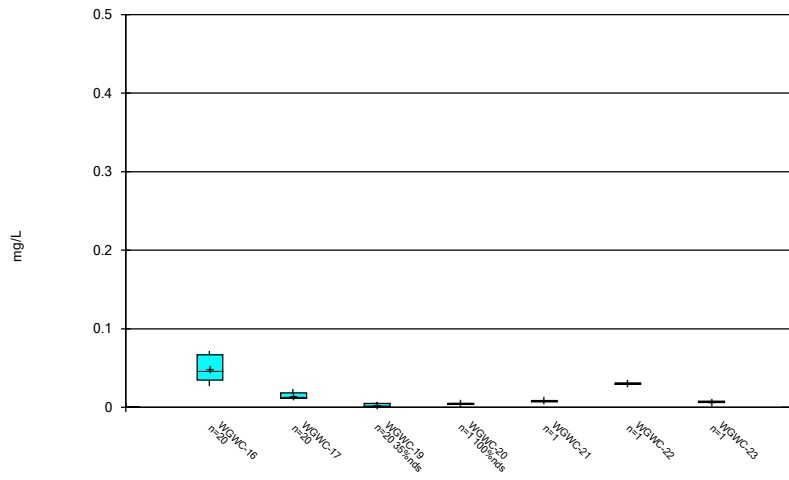
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



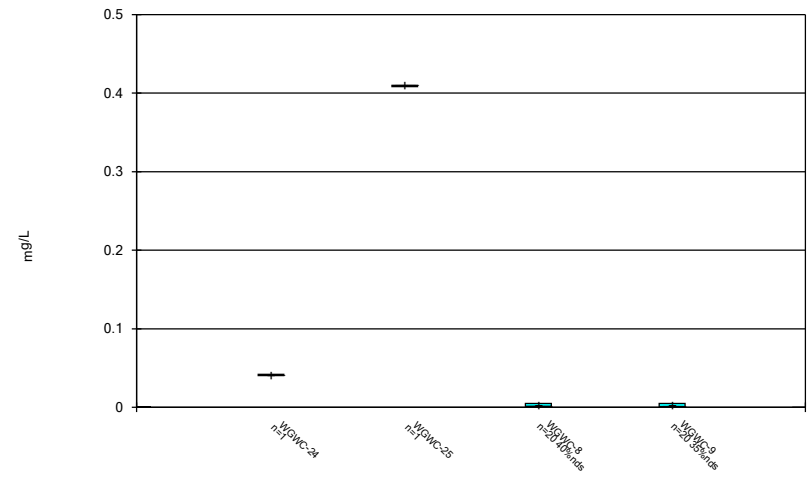
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



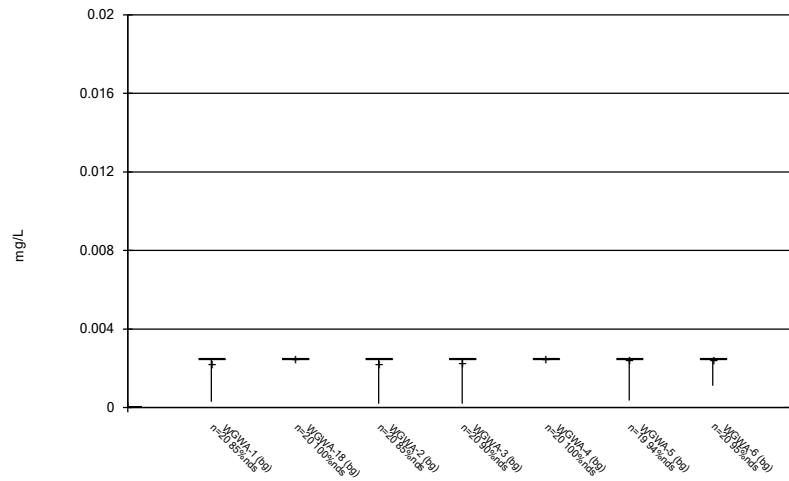
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



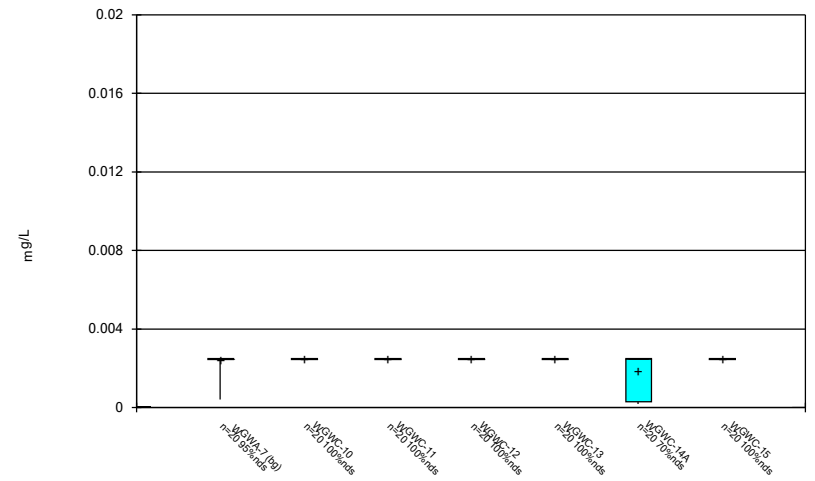
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



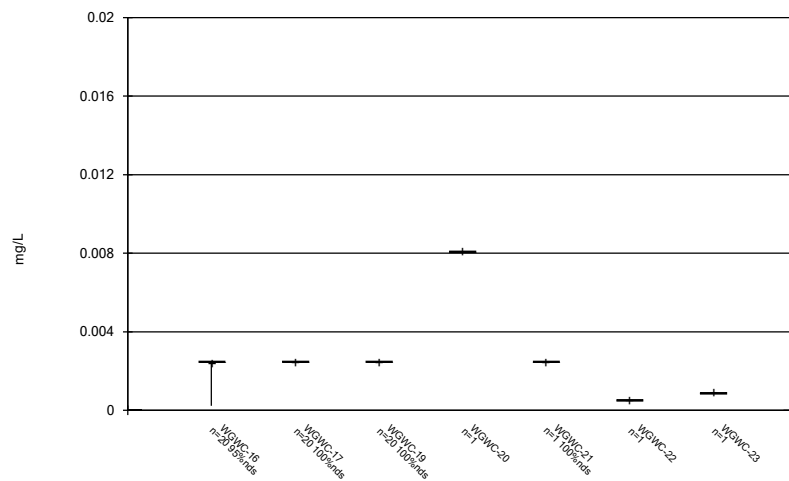
Constituent: Beryllium Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



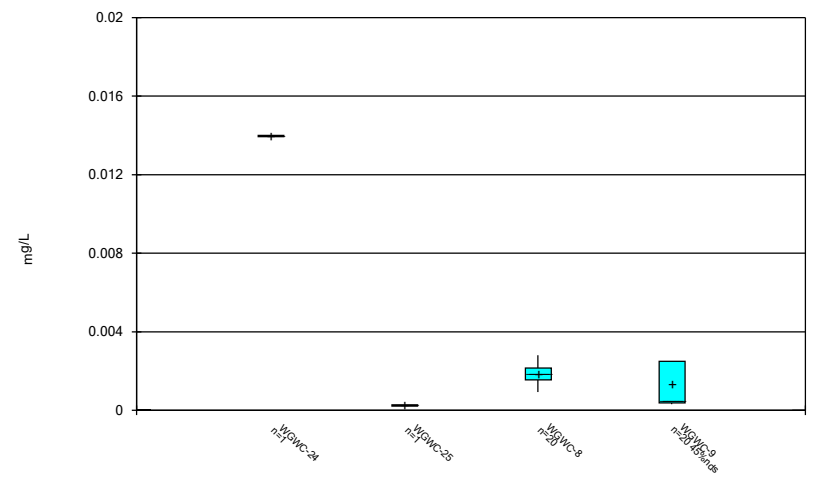
Constituent: Beryllium Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



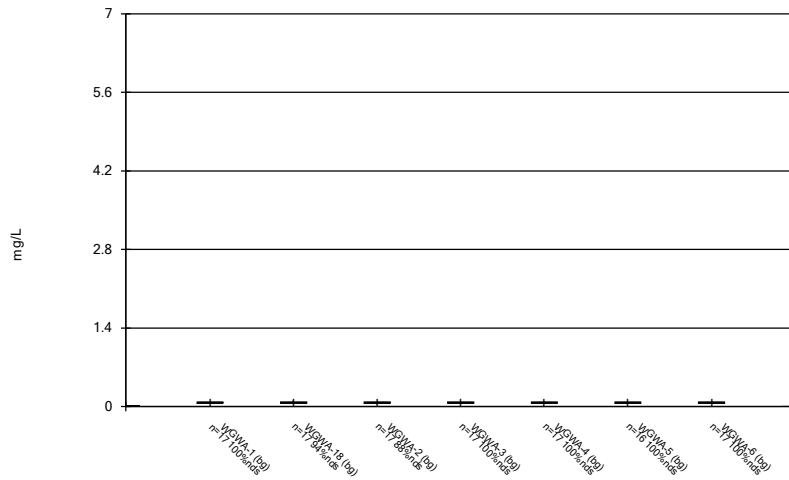
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



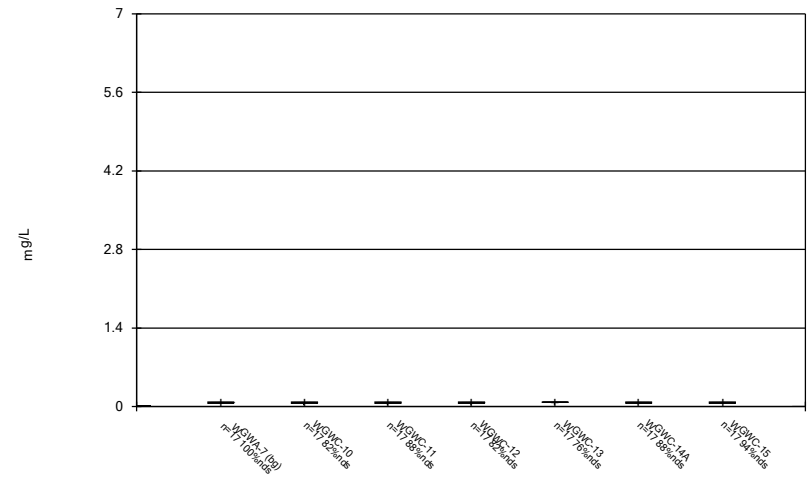
Constituent: Beryllium Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



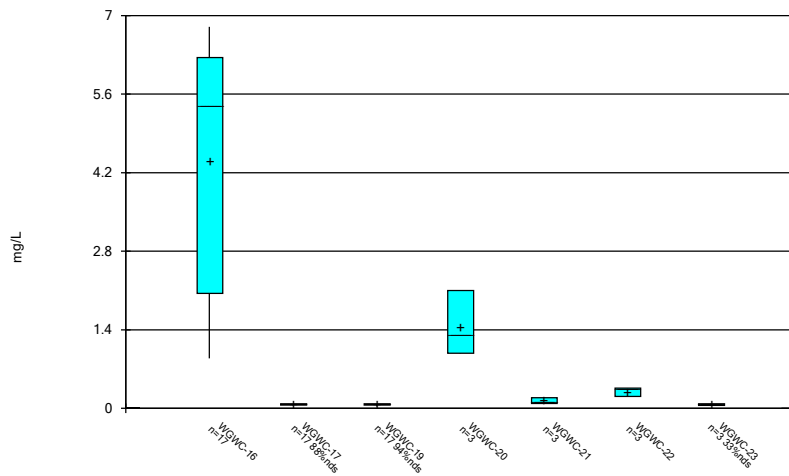
Constituent: Boron, total Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



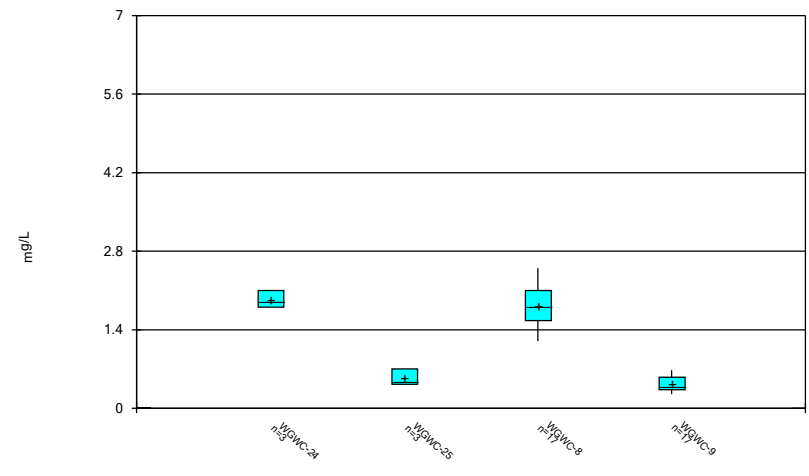
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



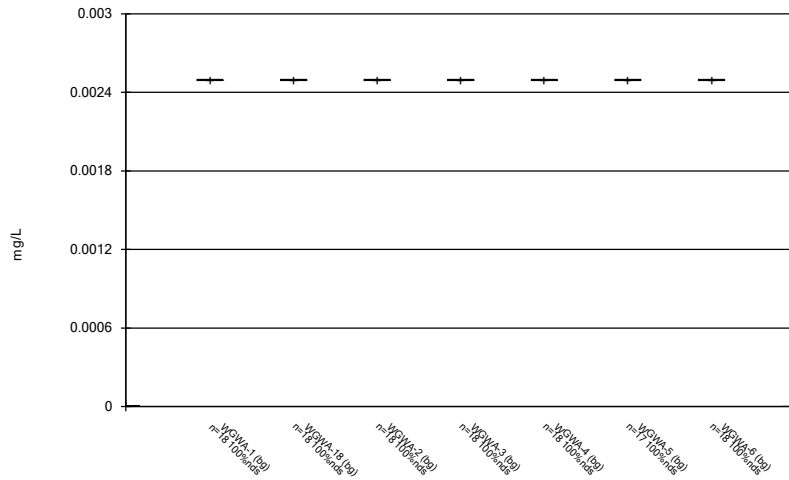
Constituent: Boron, total Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



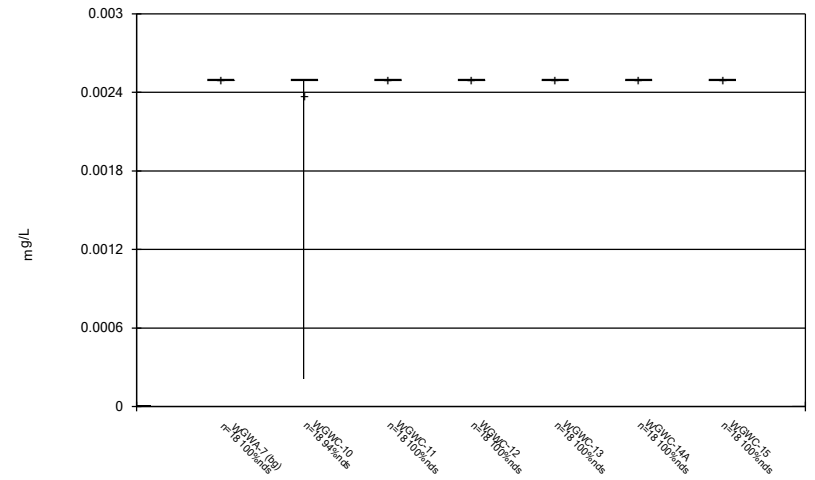
Constituent: Boron, total Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



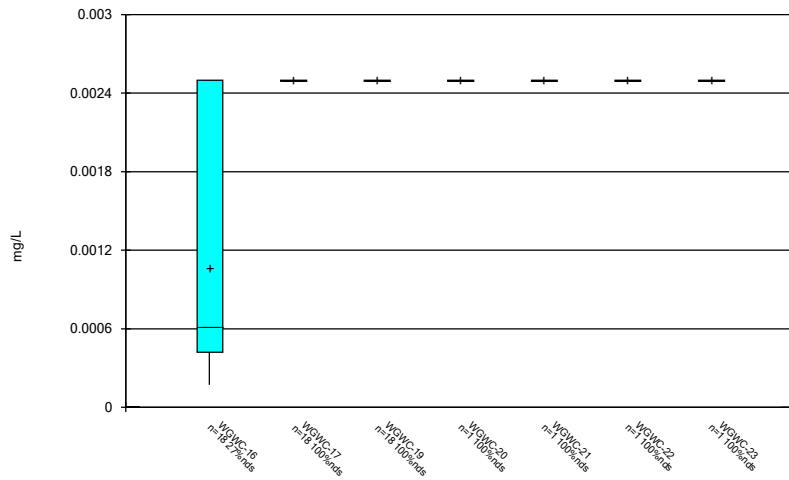
Constituent: Cadmium Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



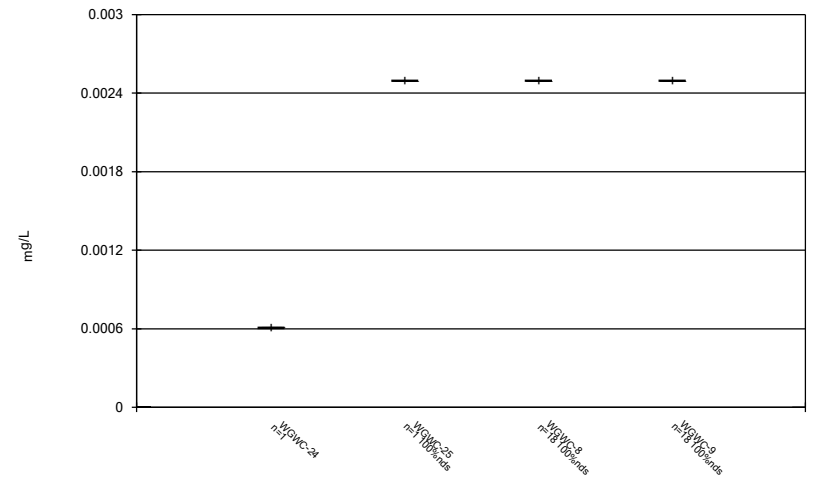
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



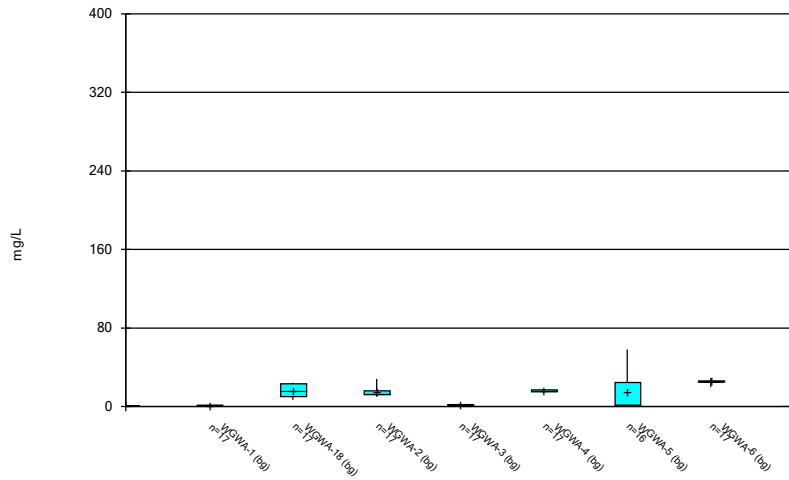
Constituent: Cadmium Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



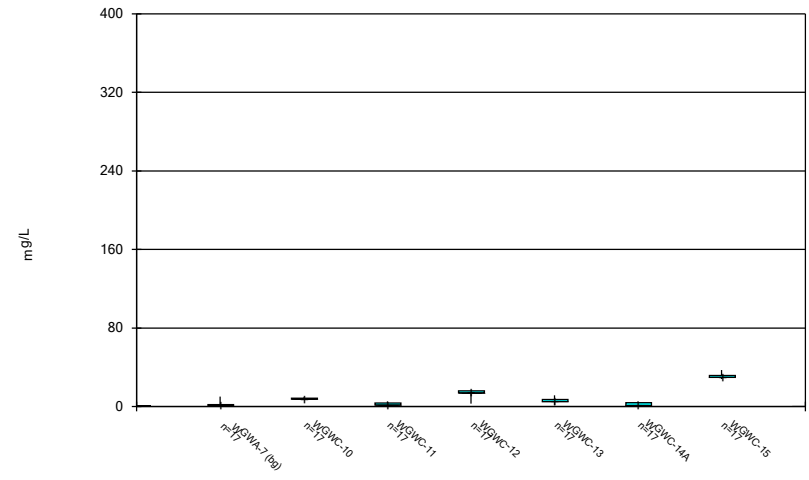
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



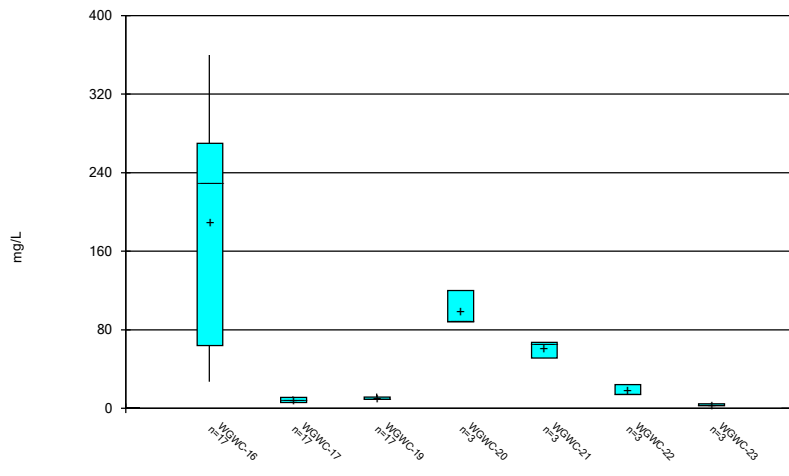
Constituent: Calcium, total Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



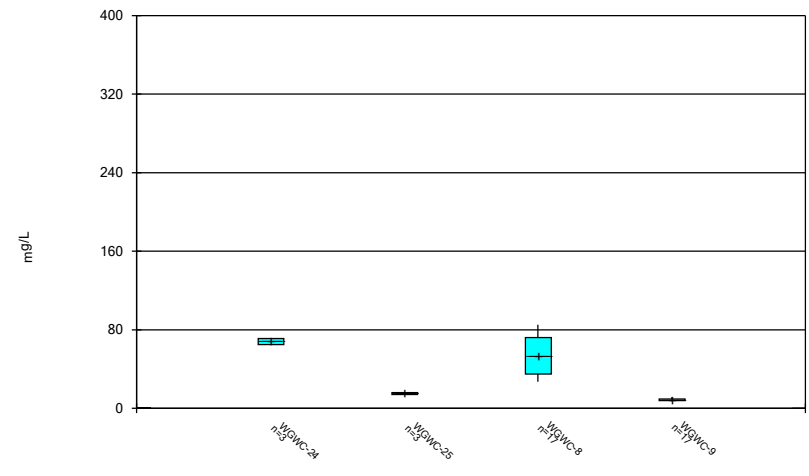
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



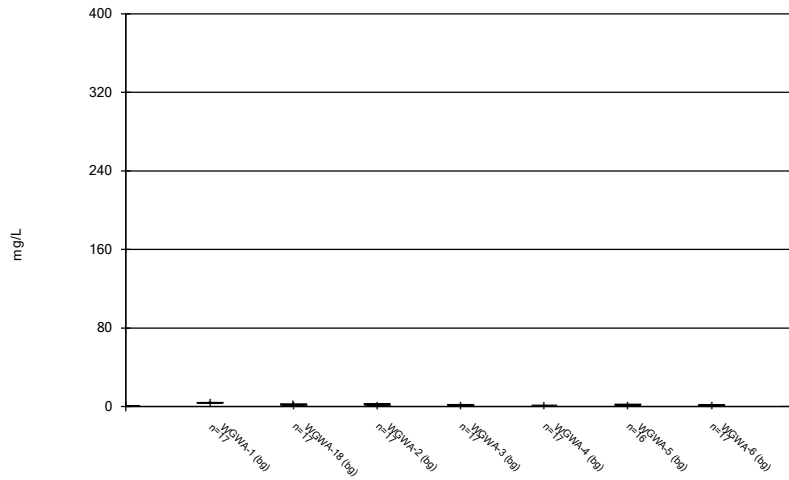
Constituent: Calcium, total Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



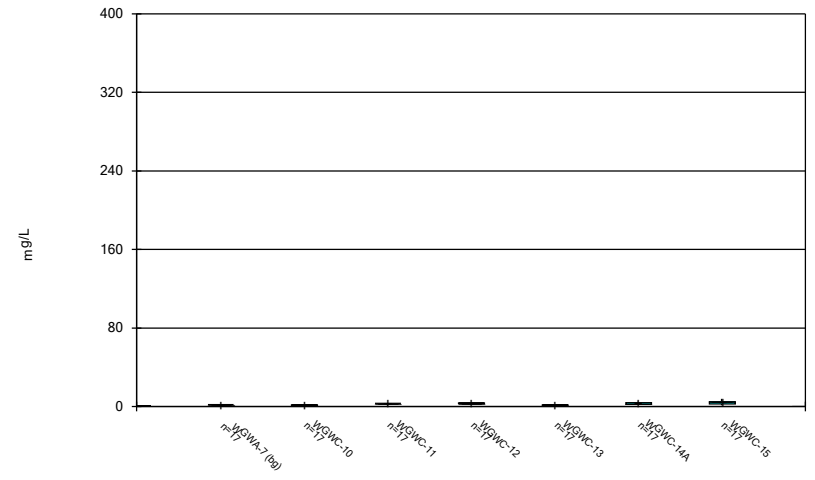
Constituent: Calcium, total Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



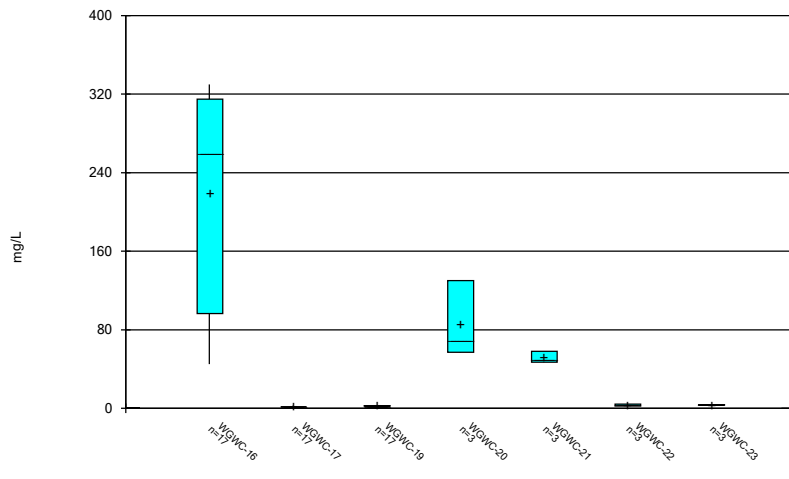
Constituent: Chloride, Total Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



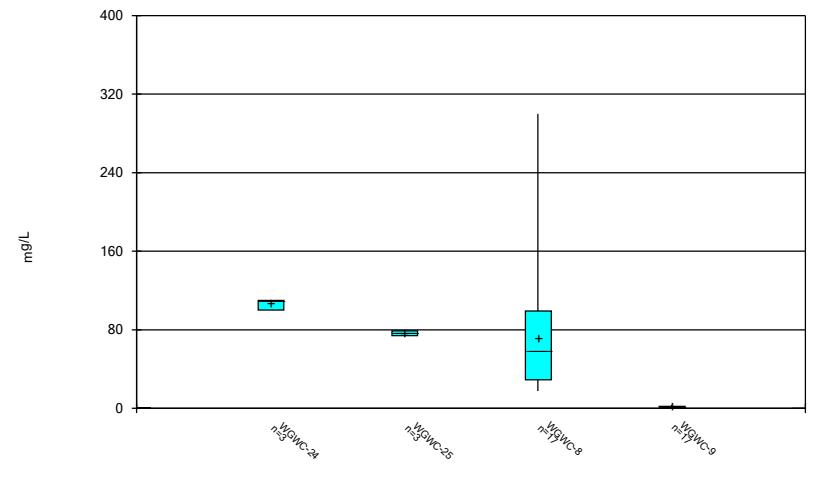
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



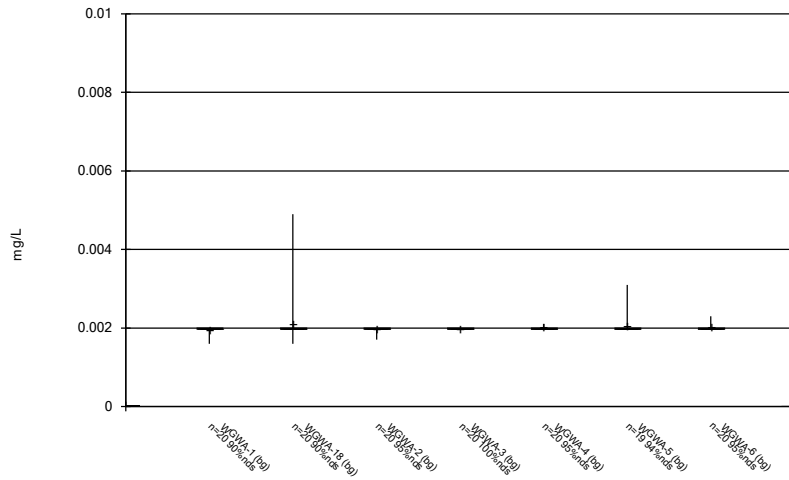
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



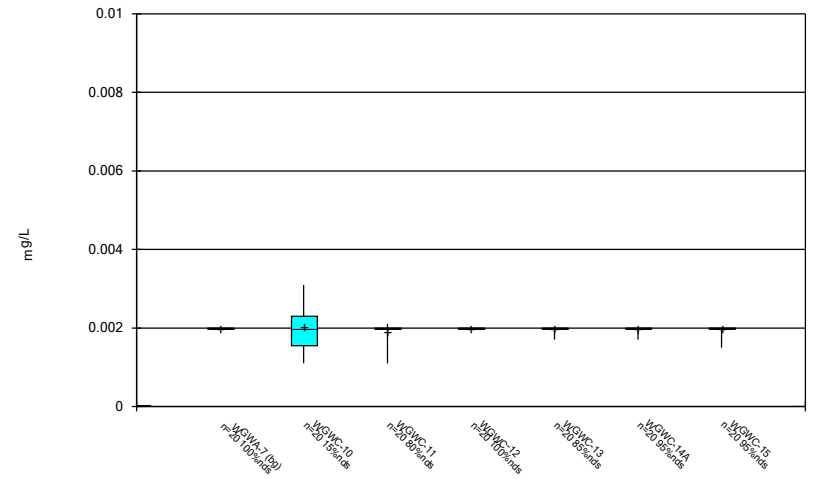
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



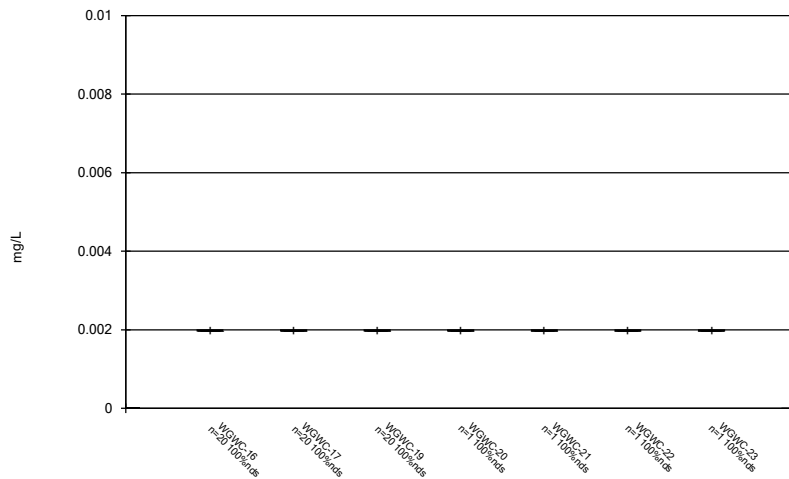
Constituent: Chromium Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



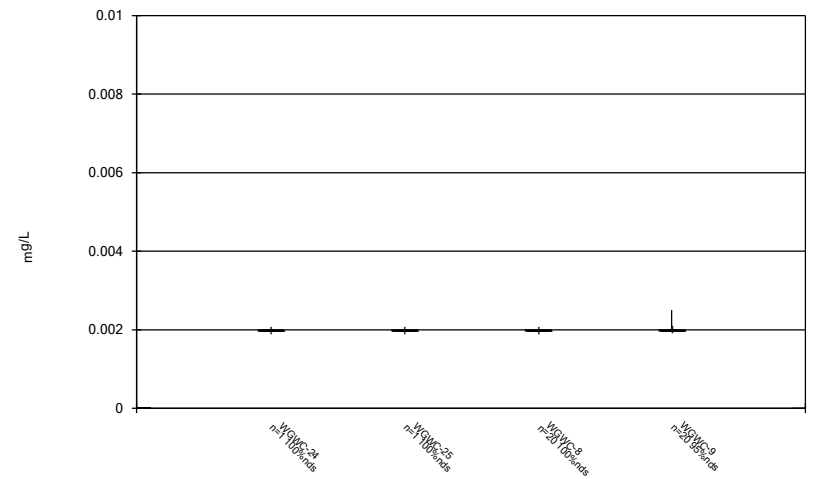
Constituent: Chromium Analysis Run 10/15/2021 4:22 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



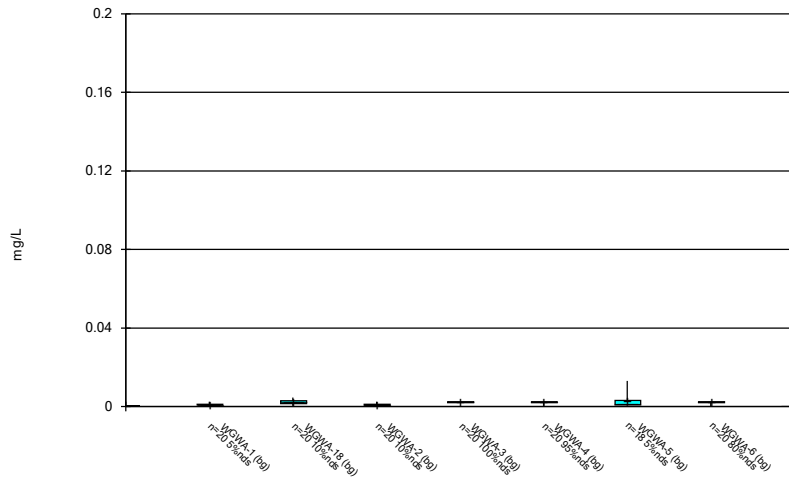
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Box & Whiskers Plot



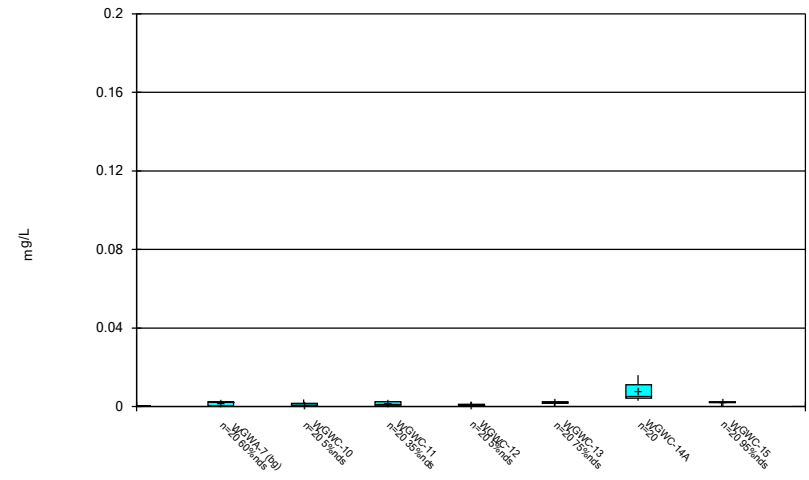
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Box & Whiskers Plot



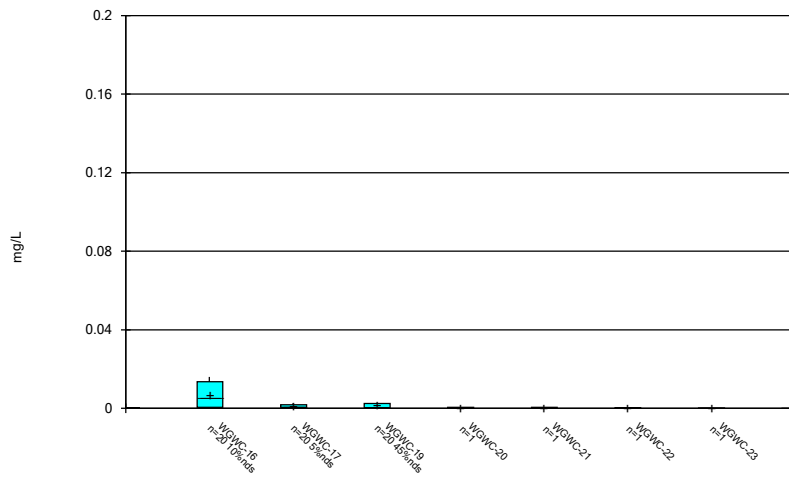
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Box & Whiskers Plot



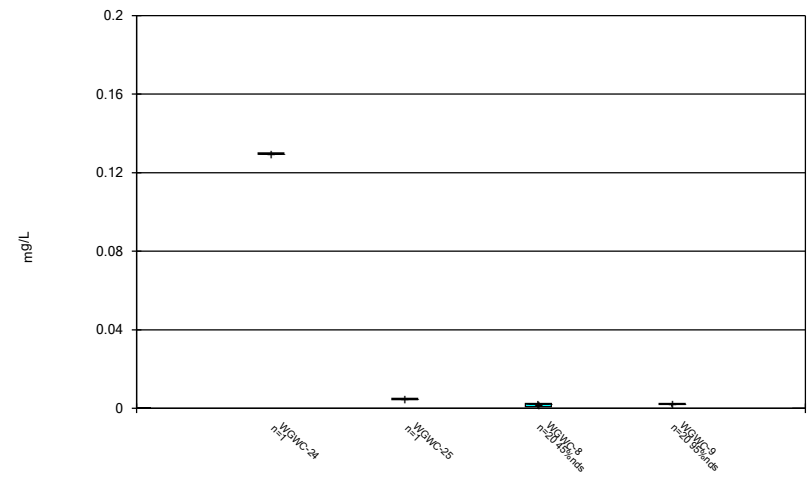
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Box & Whiskers Plot



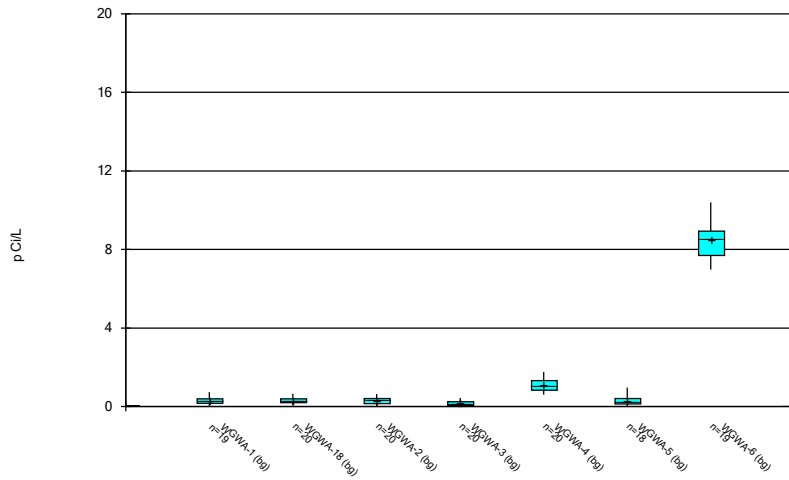
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Box & Whiskers Plot



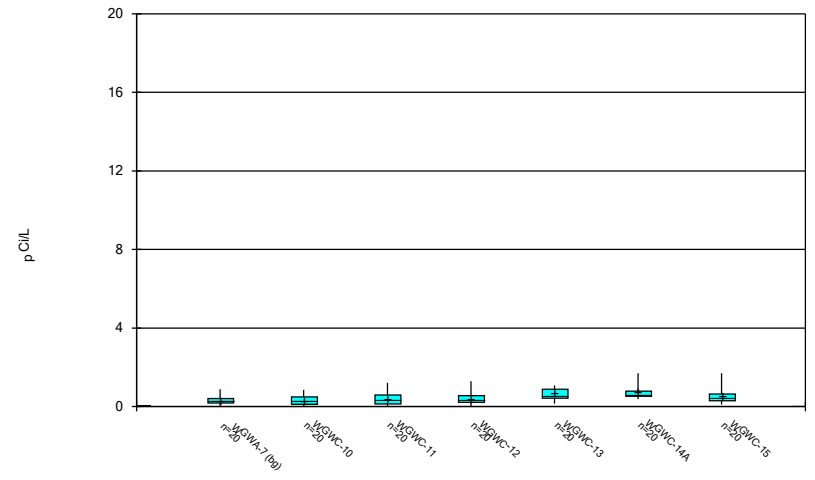
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Box & Whiskers Plot



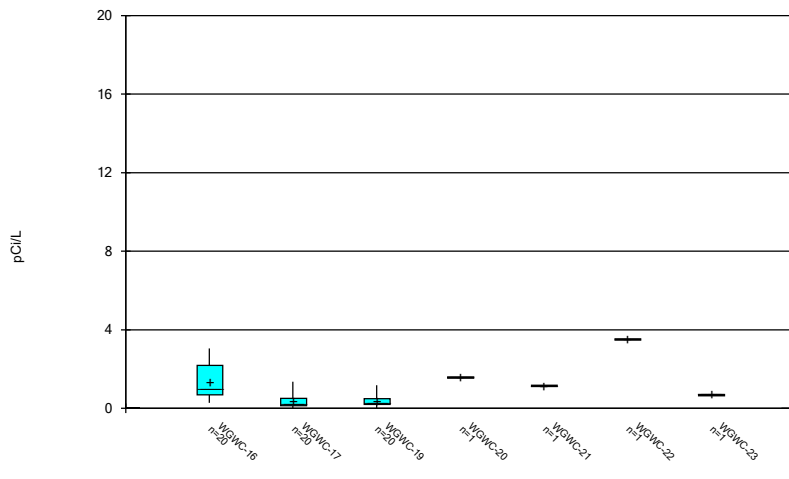
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Box & Whiskers Plot



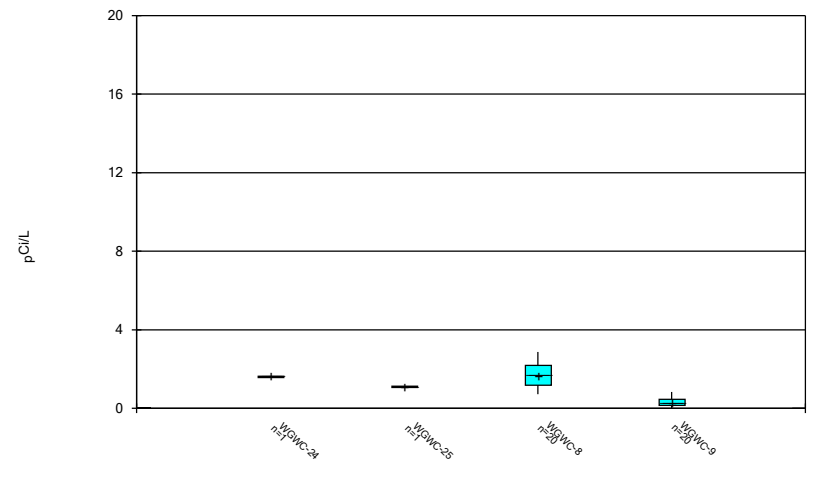
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Box & Whiskers Plot



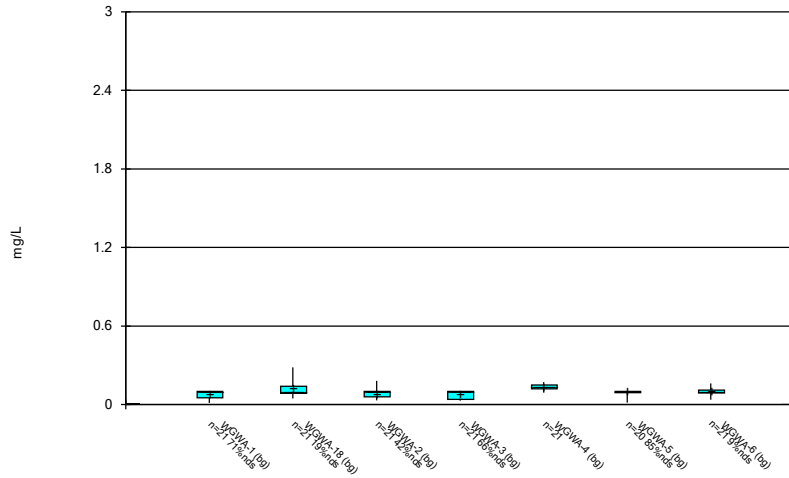
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Box & Whiskers Plot



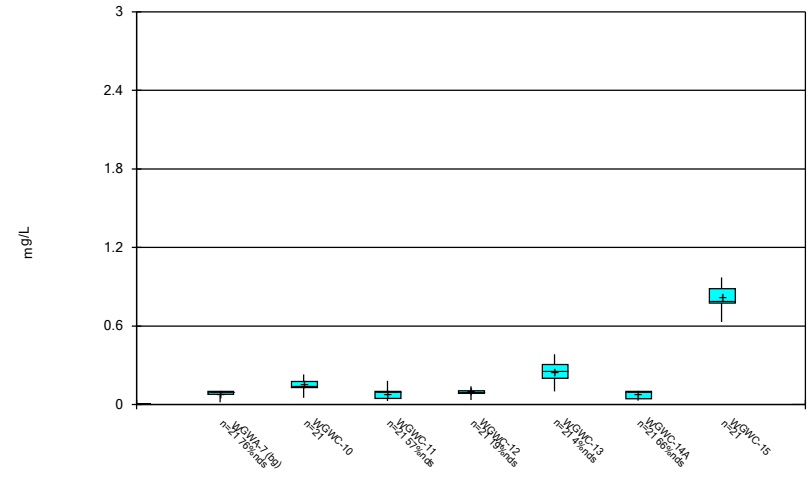
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Box & Whiskers Plot



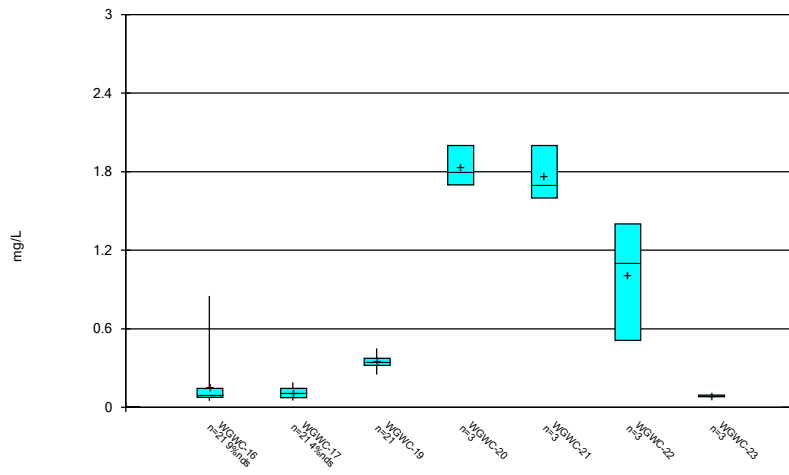
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Box & Whiskers Plot



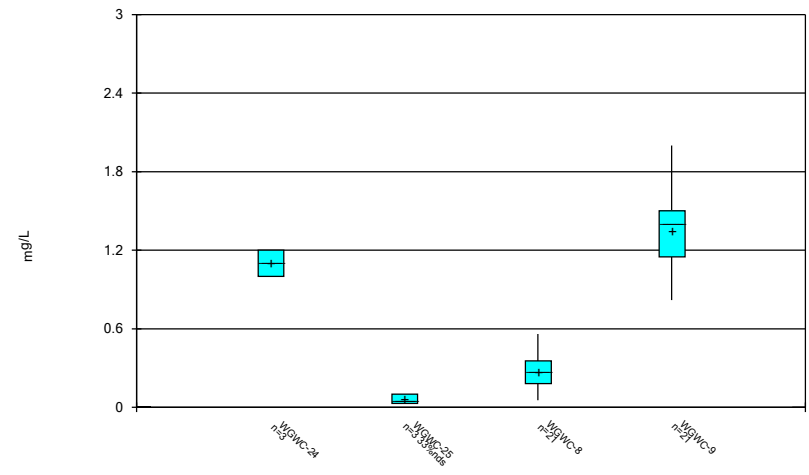
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Box & Whiskers Plot



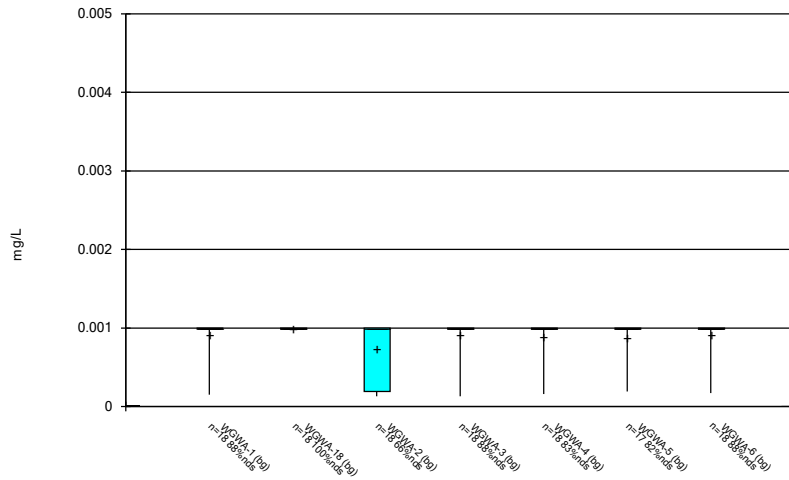
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Box & Whiskers Plot



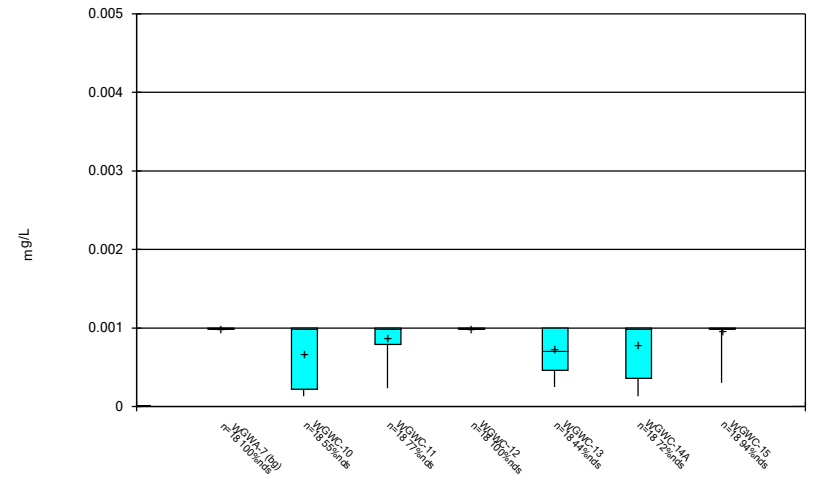
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Box & Whiskers Plot



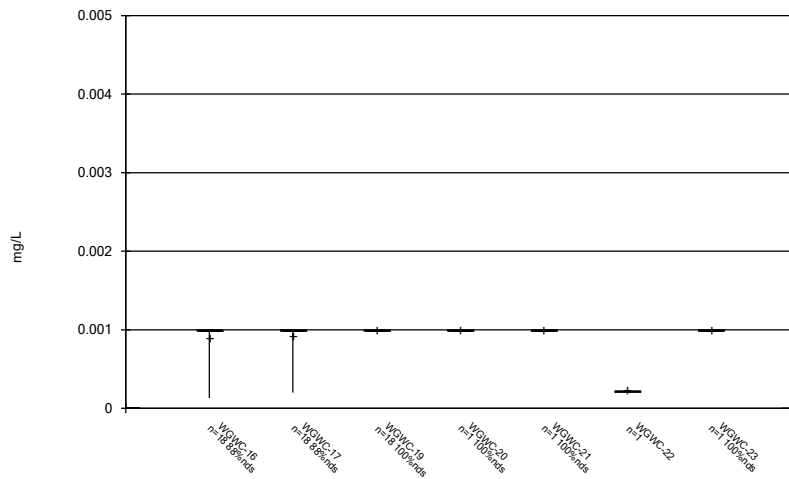
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Box & Whiskers Plot



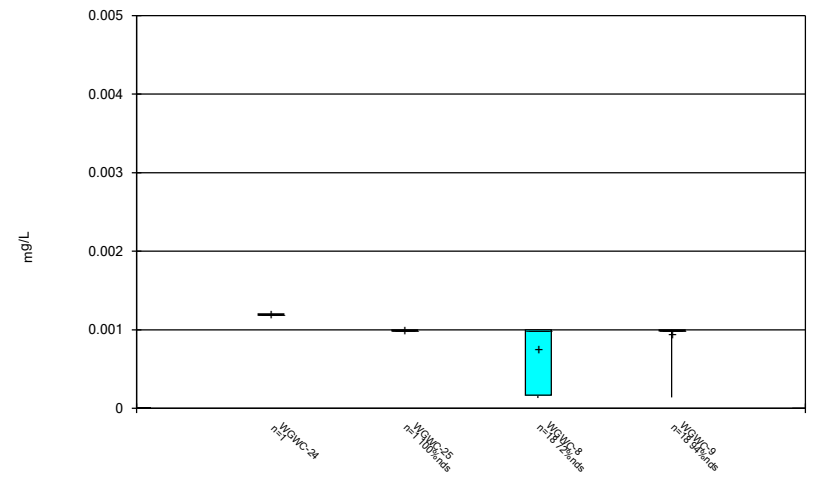
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Box & Whiskers Plot



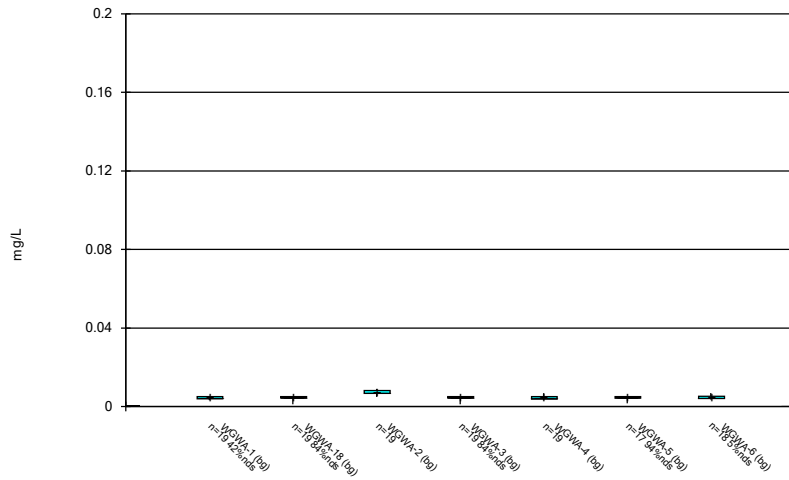
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



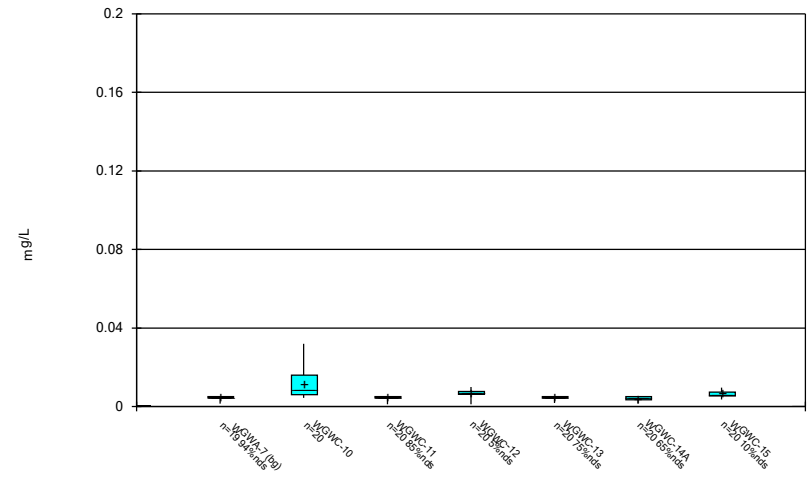
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Box & Whiskers Plot



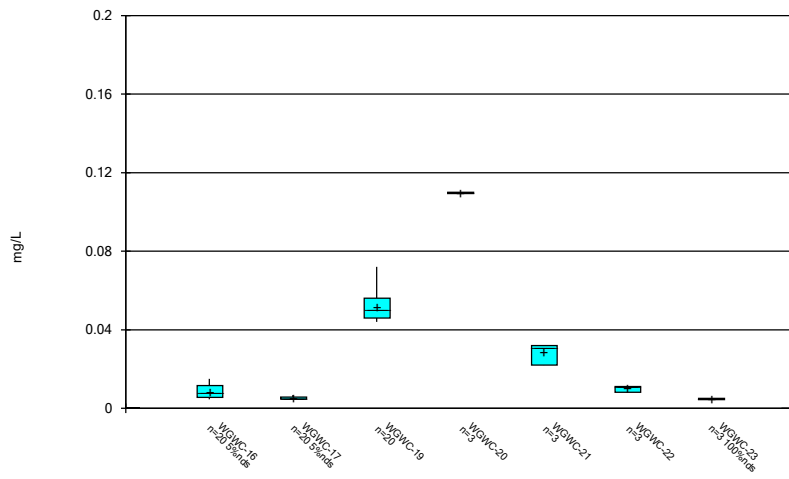
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Box & Whiskers Plot



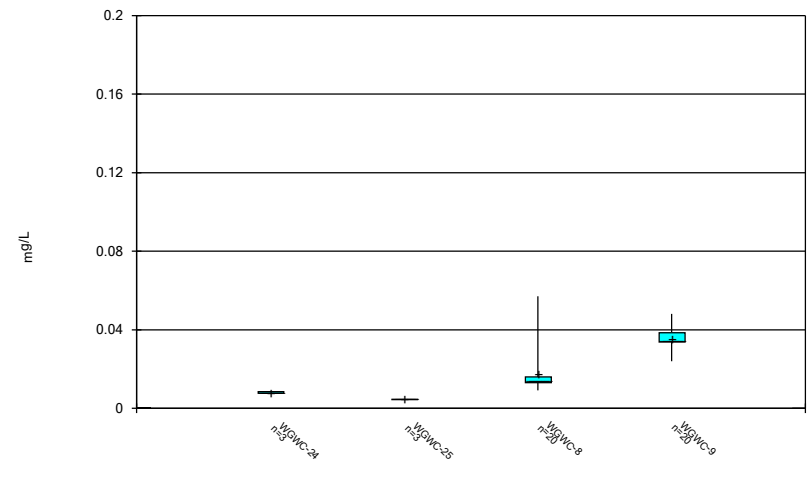
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Box & Whiskers Plot



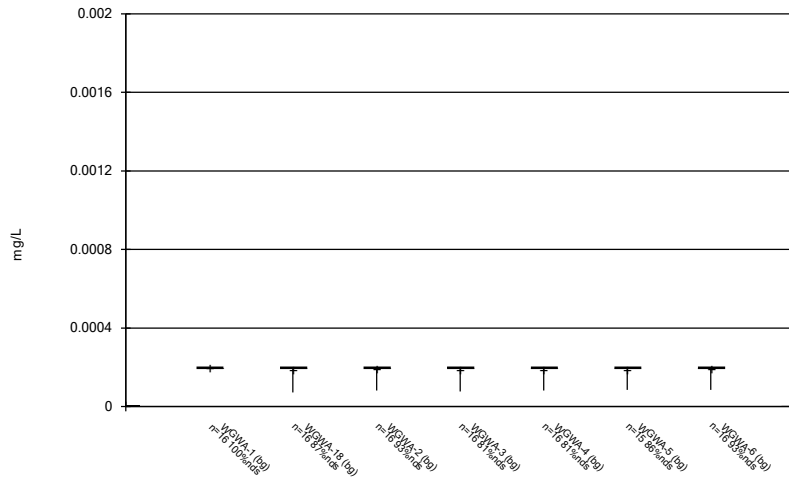
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Box & Whiskers Plot



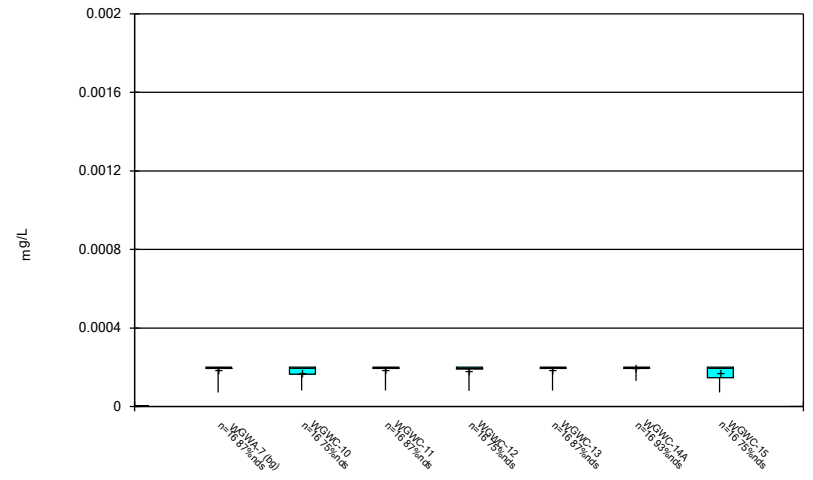
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Box & Whiskers Plot



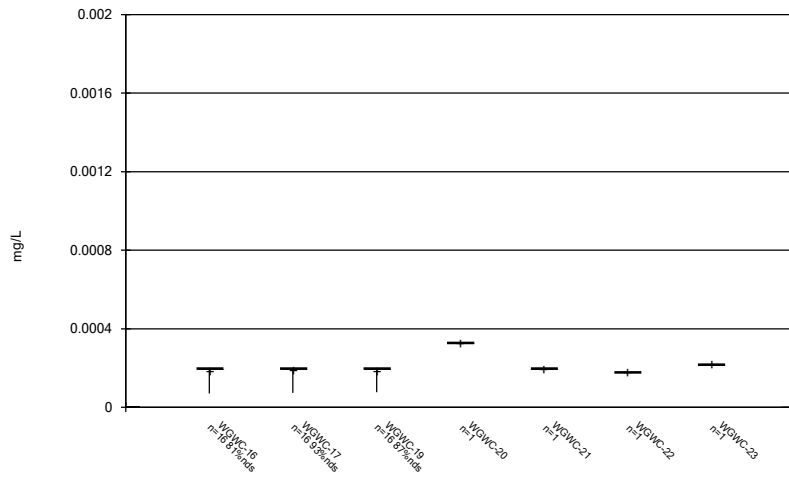
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Box & Whiskers Plot



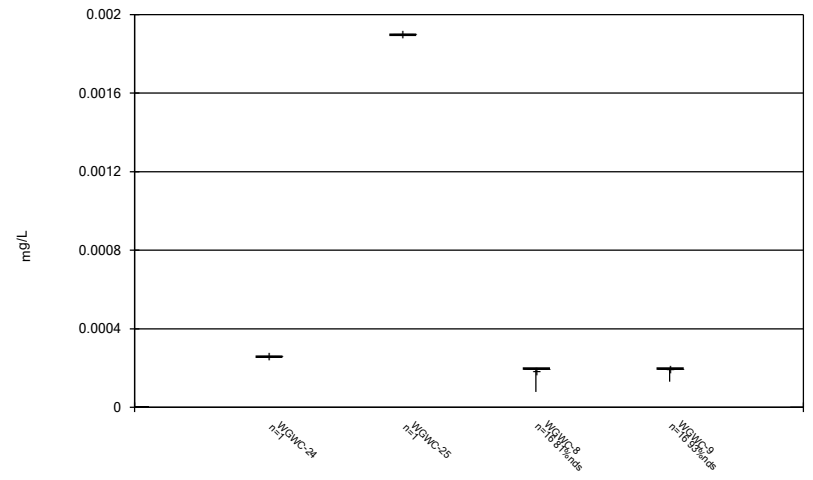
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Box & Whiskers Plot



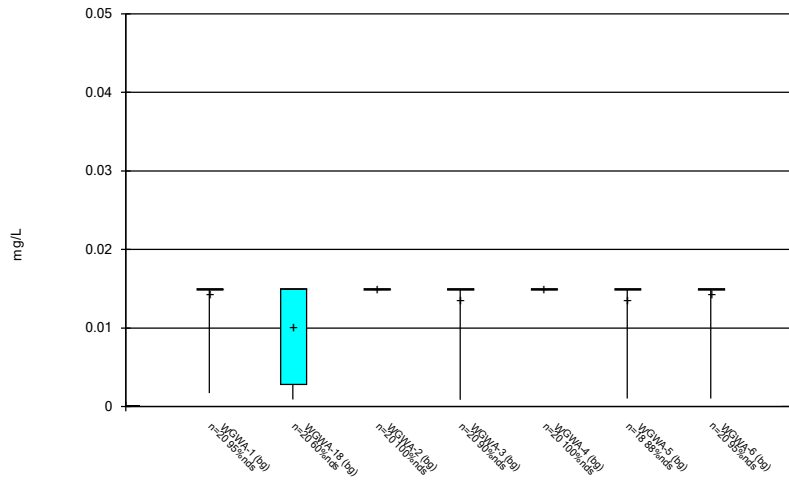
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Box & Whiskers Plot



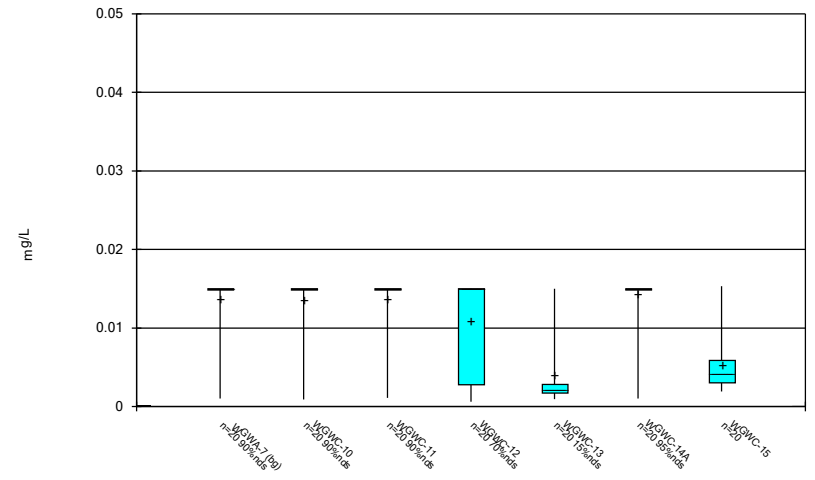
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Box & Whiskers Plot



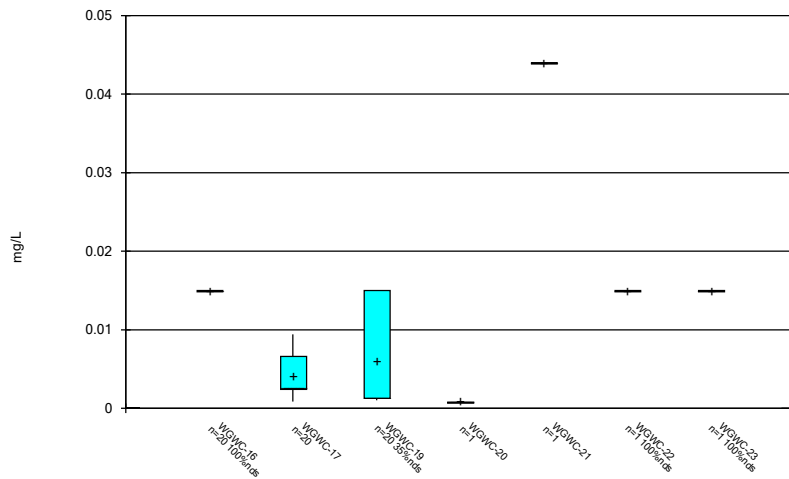
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Box & Whiskers Plot



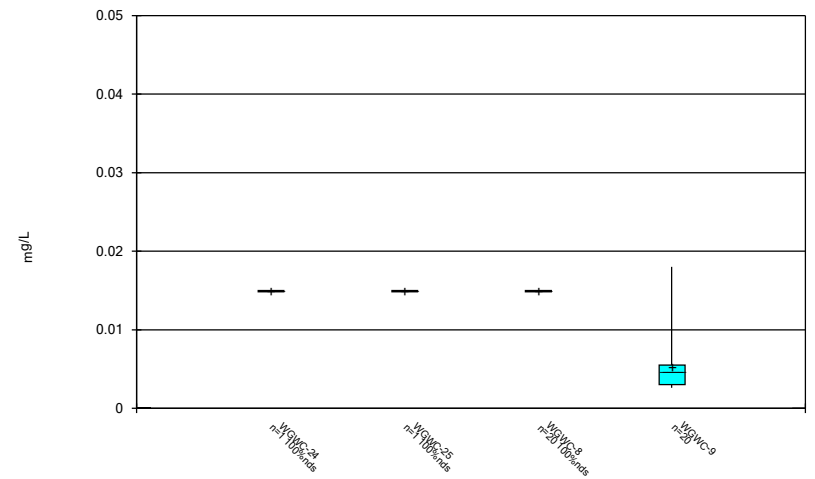
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Box & Whiskers Plot



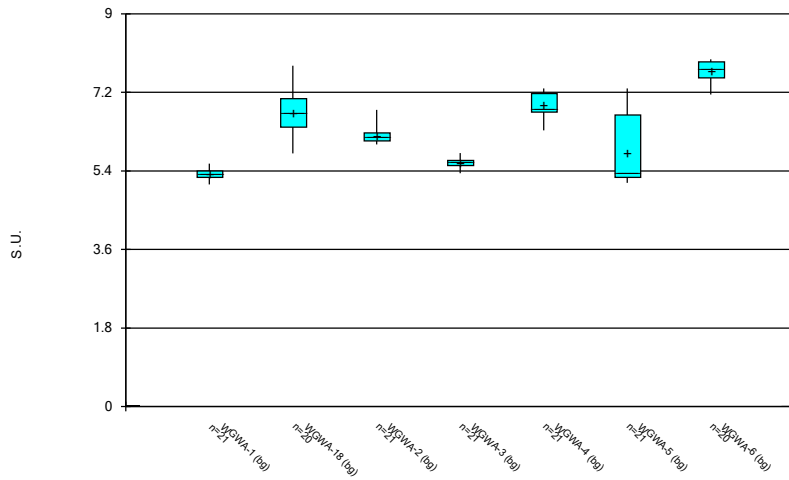
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



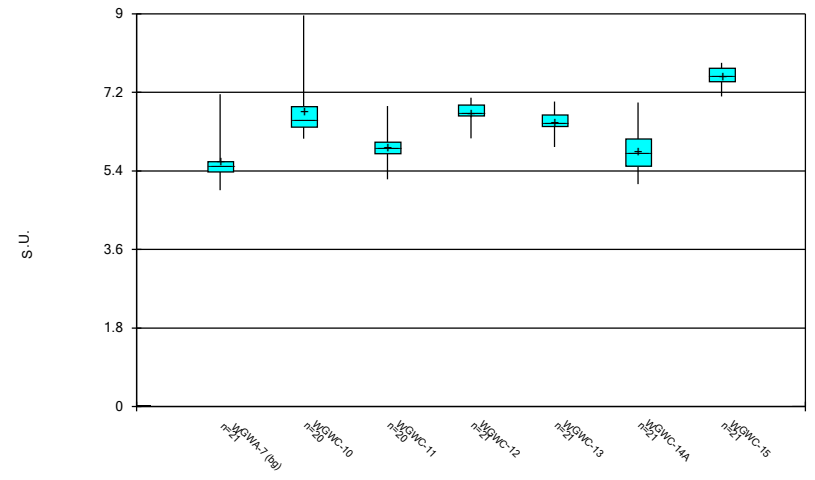
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Box & Whiskers Plot



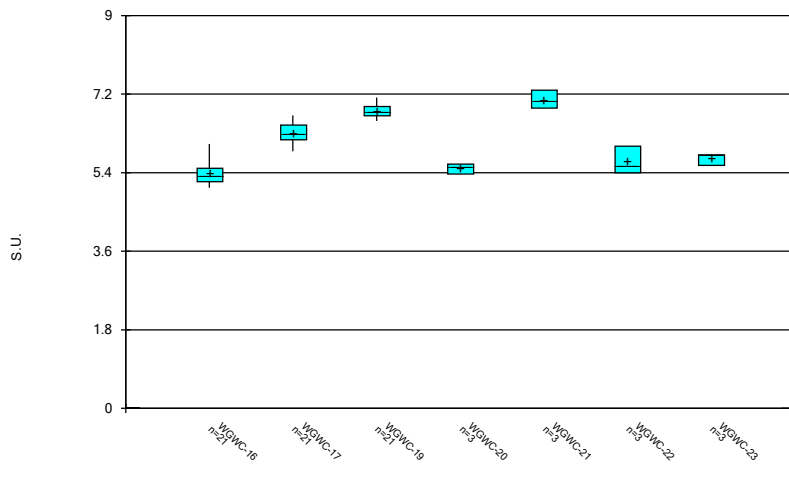
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Box & Whiskers Plot



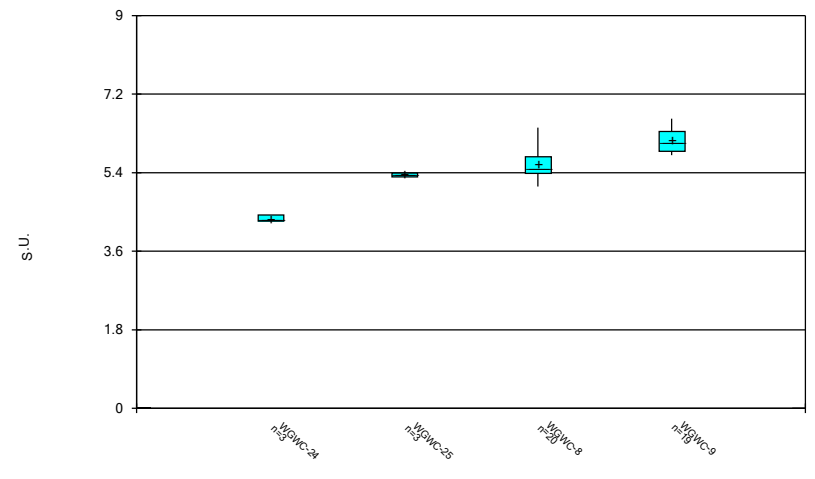
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Box & Whiskers Plot



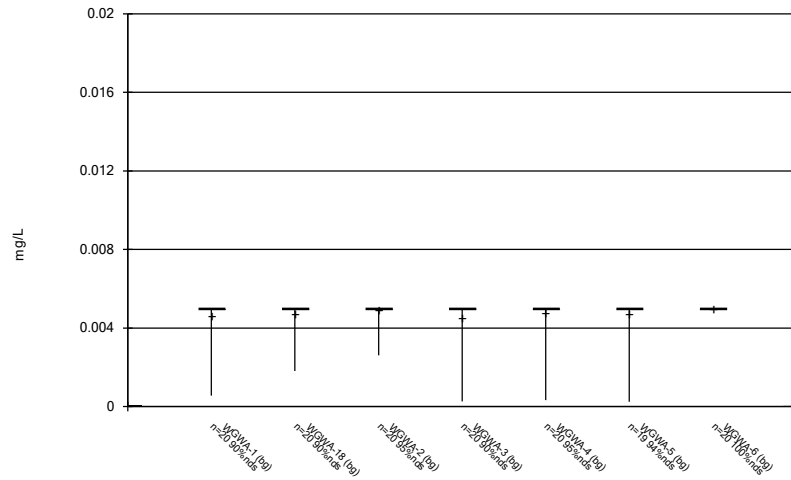
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Box & Whiskers Plot



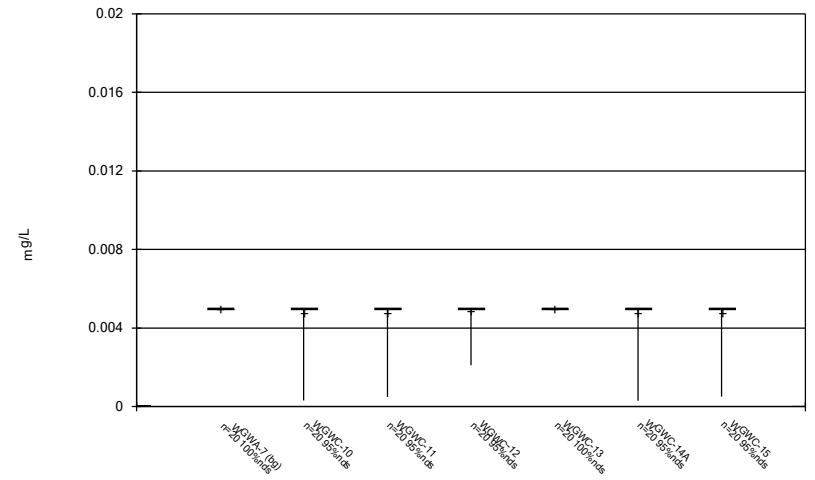
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Box & Whiskers Plot



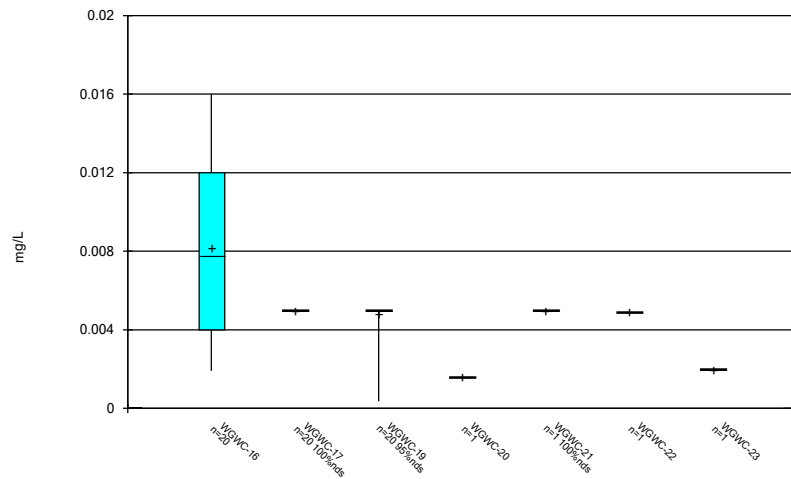
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Box & Whiskers Plot



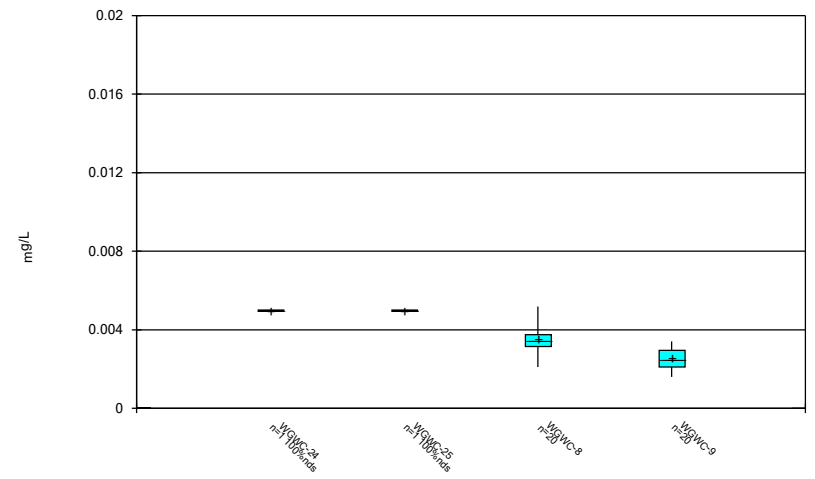
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Box & Whiskers Plot



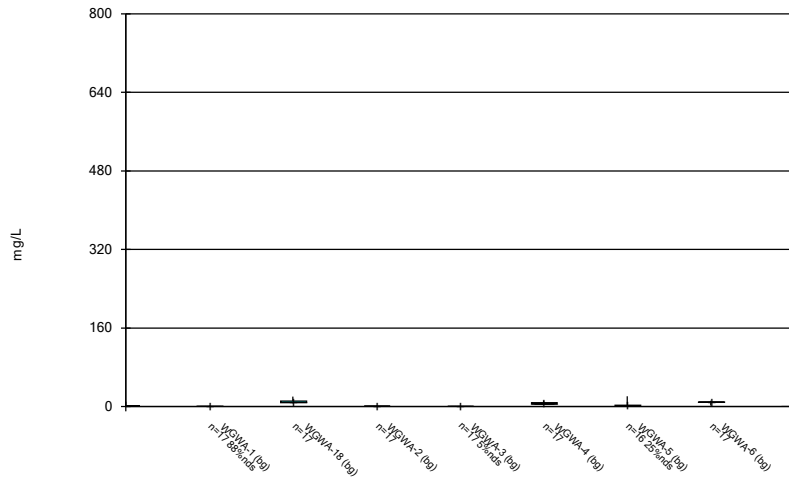
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Box & Whiskers Plot



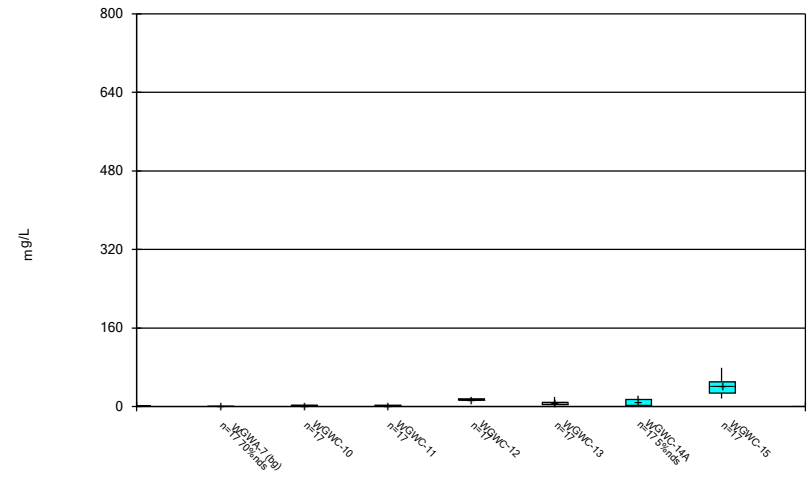
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Box & Whiskers Plot



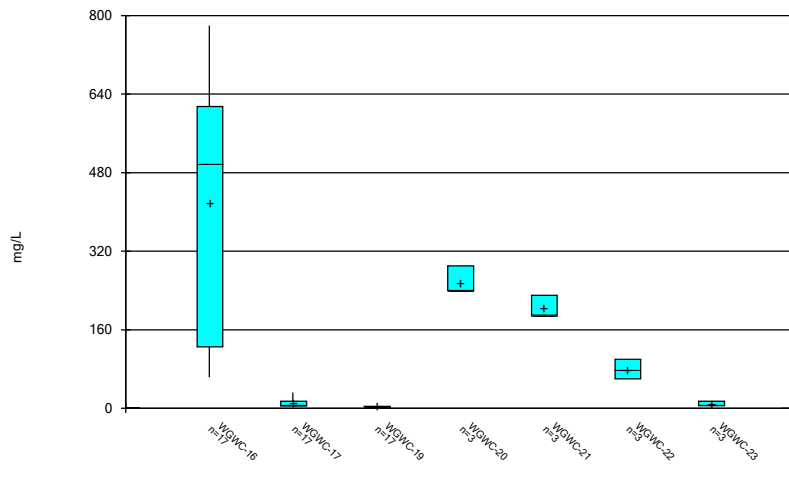
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Box & Whiskers Plot



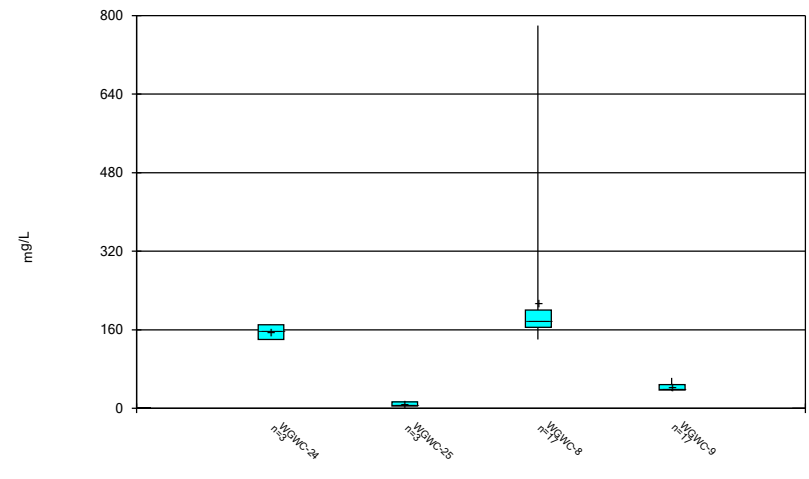
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Box & Whiskers Plot



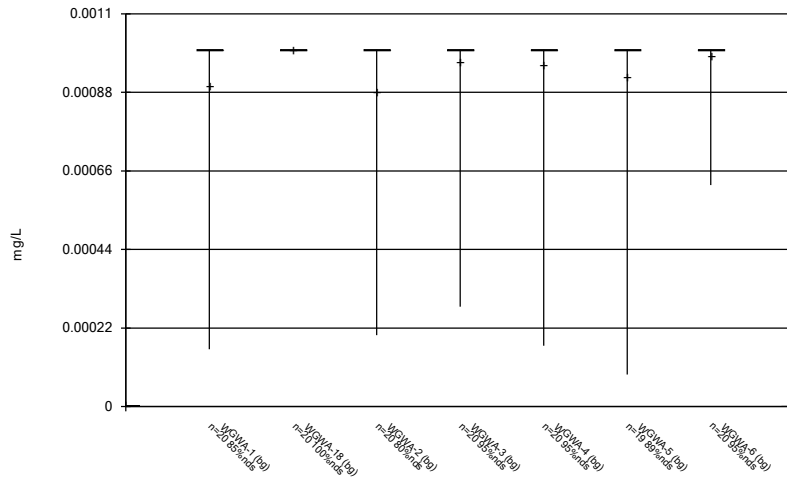
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Box & Whiskers Plot



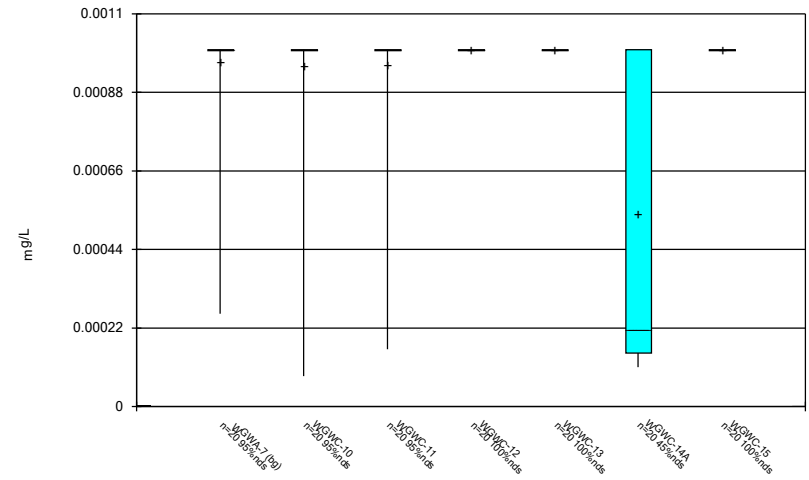
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



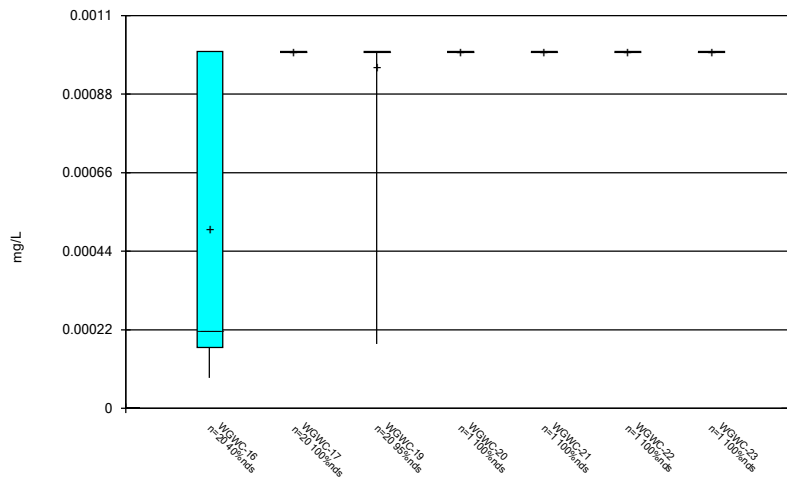
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Box & Whiskers Plot



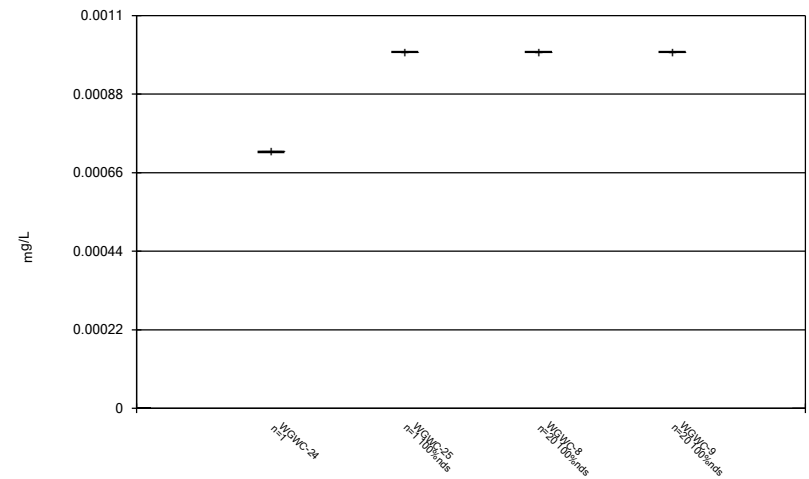
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Box & Whiskers Plot



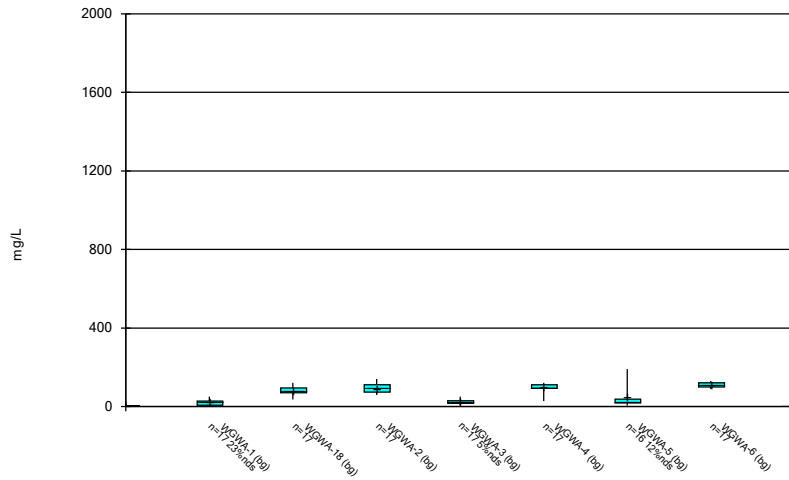
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Box & Whiskers Plot



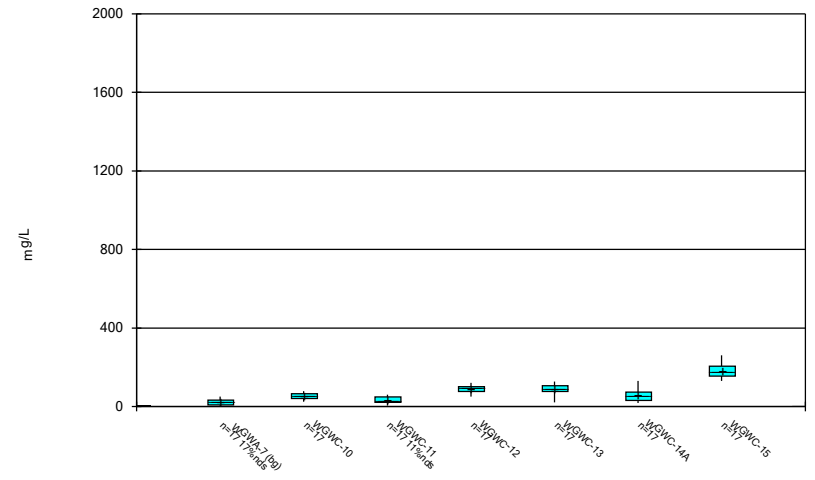
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



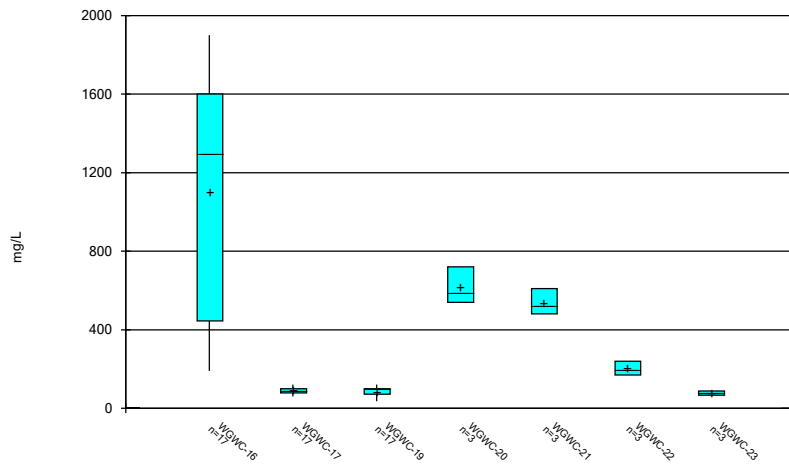
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



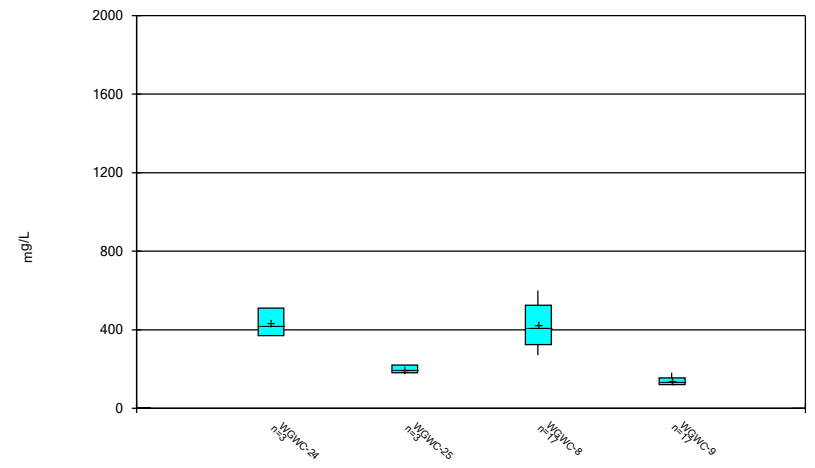
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/15/2021 4:23 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/15/2021 4:23 PM View: Appendix III & IV
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE C.

Outlier Summary

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/13/2021, 6:46 PM

	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)	

	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.

Interwell Prediction Limits - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/13/2021, 2:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-16	0.1	n/a	8/25/2021	0.89	Yes	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	8/26/2021	2.4	Yes	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	8/26/2021	0.56	Yes	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	8/26/2021	85	Yes	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	8/25/2021	45	Yes	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	8/26/2021	110	Yes	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	8/26/2021	0.77	Yes	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	8/26/2021	0.38	Yes	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	8/26/2021	1	Yes	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	8/25/2021	63	Yes	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	8/26/2021	220	Yes	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	8/26/2021	52	Yes	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	190	n/a	8/25/2021	220	Yes	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	8/26/2021	550	Yes	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/13/2021, 2:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-10	0.1	n/a	8/26/2021	0.08ND	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-11	0.1	n/a	8/25/2021	0.08ND	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-12	0.1	n/a	8/25/2021	0.08ND	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-13	0.1	n/a	8/25/2021	0.063J	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-14A	0.1	n/a	8/25/2021	0.043J	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-15	0.1	n/a	8/26/2021	0.08ND	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-16	0.1	n/a	8/25/2021	0.89	Yes	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-17	0.1	n/a	8/25/2021	0.08ND	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-19	0.1	n/a	8/26/2021	0.08ND	No	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	8/26/2021	2.4	Yes	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	8/26/2021	0.56	Yes	135	97.78	n/a	0.0001087	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-10	58	n/a	8/26/2021	7.6	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-11	58	n/a	8/25/2021	1.5	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-12	58	n/a	8/25/2021	14	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-13	58	n/a	8/25/2021	4	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-14A	58	n/a	8/25/2021	0.7	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-15	58	n/a	8/26/2021	31	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-16	58	n/a	8/25/2021	27	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-17	58	n/a	8/25/2021	6	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-19	58	n/a	8/26/2021	10	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	8/26/2021	85	Yes	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-9	58	n/a	8/26/2021	9.3	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-10	6.05	n/a	8/26/2021	1.6	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-11	6.05	n/a	8/25/2021	3.5	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-12	6.05	n/a	8/25/2021	3.7	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-13	6.05	n/a	8/25/2021	1.2	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-14A	6.05	n/a	8/25/2021	2.8	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-15	6.05	n/a	8/26/2021	1.4	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	8/25/2021	45	Yes	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-17	6.05	n/a	8/25/2021	1.6	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-19	6.05	n/a	8/26/2021	3.3	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	8/26/2021	110	Yes	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-9	6.05	n/a	8/26/2021	3.1	No	135	0	n/a	0.0001087	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-10	0.284	n/a	8/26/2021	0.16	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-11	0.284	n/a	8/25/2021	0.056J	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-12	0.284	n/a	8/25/2021	0.14	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-13	0.284	n/a	8/25/2021	0.2	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-14A	0.284	n/a	8/25/2021	0.071J	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	8/26/2021	0.77	Yes	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-16	0.284	n/a	8/25/2021	0.099J	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-17	0.284	n/a	8/25/2021	0.093J	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	8/26/2021	0.38	Yes	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-8	0.284	n/a	8/26/2021	0.21	No	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	8/26/2021	1	Yes	167	46.11	n/a	0.00007106	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-10	7.96	4.96	8/26/2021	6.31	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-11	7.96	4.96	8/25/2021	5.66	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-12	7.96	4.96	8/25/2021	6.69	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-13	7.96	4.96	8/25/2021	6.27	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-14A	7.96	4.96	8/25/2021	5.39	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-15	7.96	4.96	8/26/2021	7.58	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-16	7.96	4.96	8/25/2021	5.25	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-17	7.96	4.96	8/25/2021	6.09	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-19	7.96	4.96	8/26/2021	6.66	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-8	7.96	4.96	8/26/2021	5.36	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-9	7.96	4.96	8/26/2021	5.84	No	166	0	n/a	0.0001437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-10	21	n/a	8/26/2021	1.8	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-11	21	n/a	8/25/2021	1.1	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-12	21	n/a	8/25/2021	13	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-13	21	n/a	8/25/2021	1.8	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-14A	21	n/a	8/25/2021	0.5ND	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-15	21	n/a	8/26/2021	16	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	8/25/2021	63	Yes	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-17	21	n/a	8/25/2021	3.3	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-19	21	n/a	8/26/2021	3.5	No	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	8/26/2021	220	Yes	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	8/26/2021	52	Yes	135	23.7	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-10	190	n/a	8/26/2021	60	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-11	190	n/a	8/25/2021	32	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2

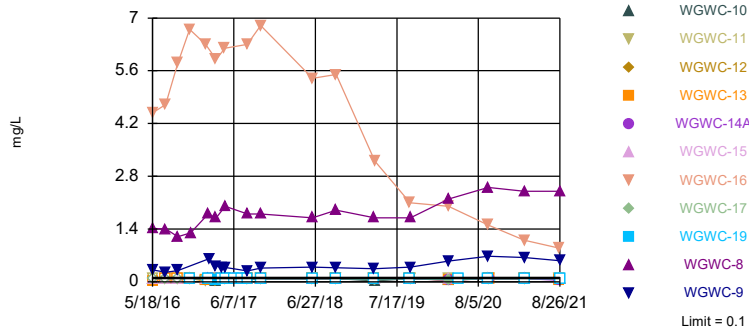
Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/13/2021, 2:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	WGWC-12	190	n/a	8/25/2021	110	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-13	190	n/a	8/25/2021	53	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-14A	190	n/a	8/25/2021	30	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-15	190	n/a	8/26/2021	150	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	190	n/a	8/25/2021	220	Yes	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-17	190	n/a	8/25/2021	84	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-19	190	n/a	8/26/2021	94	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	8/26/2021	550	Yes	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-9	190	n/a	8/26/2021	170	No	135	7.407	n/a	0.0001087	NP Inter (normality) 1 of 2

Exceeds Limit: WGWC-16, WGWC-8,
WGWC-9

Prediction Limit
Interwell Non-parametric

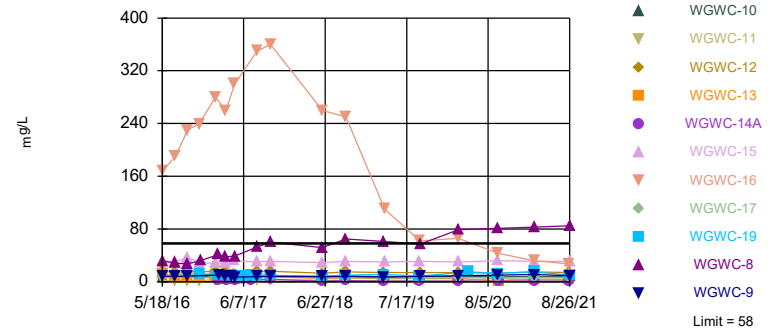


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 135 background values. 97.78% NDs. Annual per-constituent alpha = 0.0003262. Individual comparison alpha = 0.0001087 (1 of 2). Comparing 11 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Boron, total Analysis Run 10/13/2021 2:32 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-8

Prediction Limit
Interwell Non-parametric

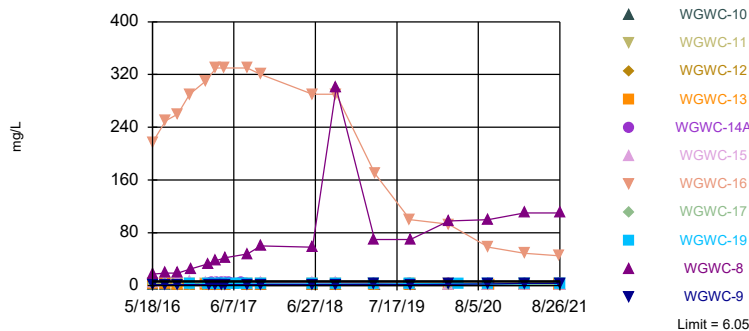


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 135 background values. Annual per-constituent alpha = 0.0003262. Individual comparison alpha = 0.0001087 (1 of 2). Comparing 11 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Calcium, total Analysis Run 10/13/2021 2:32 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-16, WGWC-8

Prediction Limit
Interwell Non-parametric

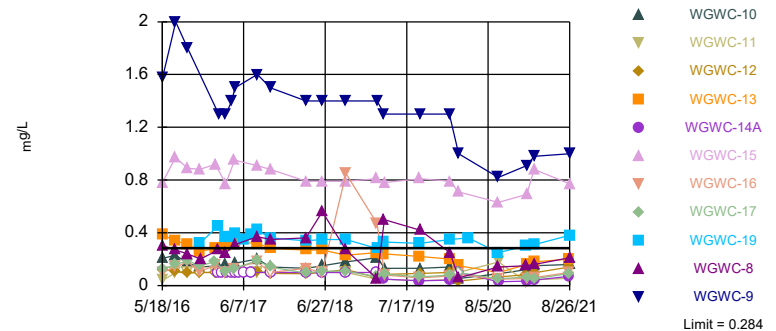


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 135 background values. Annual per-constituent alpha = 0.0003262. Individual comparison alpha = 0.0001087 (1 of 2). Comparing 11 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Chloride, Total Analysis Run 10/13/2021 2:32 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-15, WGWC-19,
WGWC-9

Prediction Limit
Interwell Non-parametric

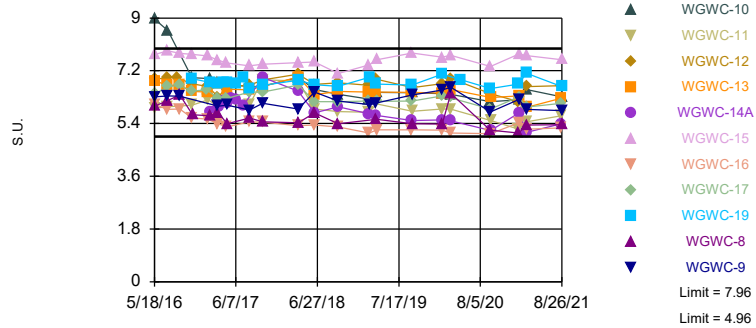


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 167 background values. 46.11% NDs. Annual per-constituent alpha = 0.0002132. Individual comparison alpha = 0.00007106 (1 of 2). Comparing 11 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Fluoride, total Analysis Run 10/13/2021 2:32 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

Prediction Limit
Interwell Non-parametric



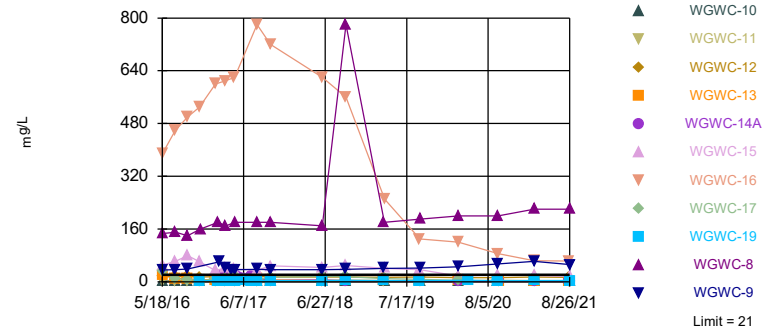
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 166 background values. Annual per-constituent alpha = 0.0004311. Individual comparison alpha = 0.0001437 (1 of 2). Comparing 11 points to limit. Seasonality was not detected with 95% confidence.

Constituent: pH, Field Analysis Run 10/13/2021 2:32 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Exceeds Limit: WGWC-16, WGWC-8, WGWC-9

Prediction Limit
Interwell Non-parametric



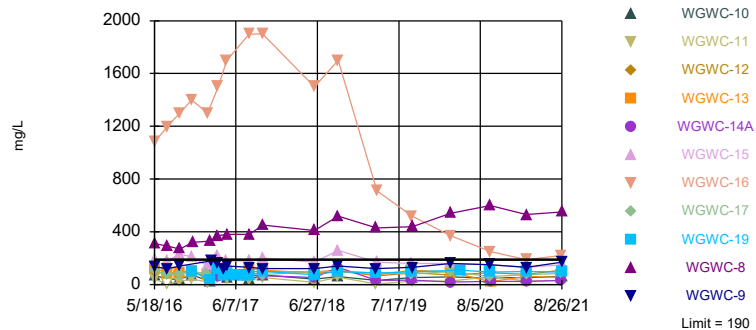
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 135 background values. 23.7% NDs. Annual per-constituent alpha = 0.0003262. Individual comparison alpha = 0.0001087 (1 of 2). Comparing 11 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Sulfate as SO4 Analysis Run 10/13/2021 2:32 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

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 135 background values. 7.407% NDs. Annual per-constituent alpha = 0.0003262. Individual comparison alpha = 0.0001087 (1 of 2). Comparing 11 points to limit. Seasonality was not detected with 95% confidence.

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/13/2021 2:32 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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)
9/17/2019		<0.08	<0.08						
9/18/2019					<0.08	<0.08		2.1	
9/19/2019				<0.08					
3/16/2020	<0.08	0.048 (J)							
3/17/2020			<0.08		<0.08		<0.08		<0.08
3/18/2020				0.049 (J)		0.071 (J)		2	
3/19/2020									
5/4/2020									
9/21/2020		<0.08							
9/22/2020	<0.08		<0.08		<0.08		<0.08		<0.08
9/23/2020				<0.08		<0.08		1.5	
9/24/2020									
3/10/2021		0.039 (J)	<0.08		<0.08				<0.08
3/11/2021	<0.08			<0.08			<0.08	1.1	
3/12/2021						<0.08			
8/23/2021		<0.08							
8/24/2021	<0.08				<0.08		<0.08		<0.08
8/25/2021			0.1					0.89	
8/26/2021				<0.08		<0.08			

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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				
3/10/2021		<0.08	<0.08						
3/11/2021	<0.08				<0.08	2.4			<0.08
3/12/2021				<0.08			0.64	<0.08	
8/23/2021									
8/24/2021		<0.08							
8/25/2021	<0.08		<0.08	<0.08	0.063 (J)			<0.08	
8/26/2021						2.4	0.56		<0.08

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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
3/10/2021	
3/11/2021	<0.08
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	0.043 (J)
8/26/2021	

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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)
9/17/2019		13	10						
9/18/2019					1.5	31		62	
9/19/2019				7.5					
3/16/2020	1.1	10							
3/17/2020			10		0.82		26		1.4
3/18/2020				7.5		30		66	
3/19/2020									
5/4/2020									
9/21/2020		13							
9/22/2020	1.2		19		0.89		25		58
9/23/2020				7.7		32		43	
9/24/2020									
3/10/2021		11	7.7		0.89				1.3
3/11/2021	1.3			7.9			26	32	
3/12/2021						31			
8/23/2021		13							
8/24/2021	1.2				1.7		26		47
8/25/2021			16					27	
8/26/2021				7.6		31			

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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				
3/10/2021		16	1.9						
3/11/2021	5.7				4	83			15
3/12/2021				1.6			11	15	
8/23/2021									
8/24/2021		15							
8/25/2021	6		1.7	1.5	4			14	
8/26/2021						85	9.3		10

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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
3/10/2021	
3/11/2021	0.79
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	0.7
8/26/2021	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/13/2021 2:34 PM 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, Total (mg/L) Analysis Run 10/13/2021 2:34 PM 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)
9/17/2019		2.4	2						
9/18/2019					2	3.2		100	
9/19/2019				1.5					
3/16/2020	4.3	2.7							
3/17/2020			2.3		2.2		1.7		1.6
3/18/2020				1.5		1.7		93	
3/19/2020									
5/4/2020									
9/21/2020		2.5							
9/22/2020	4		2.1		1.8		1.4		1.5
9/23/2020				1.3		1.5		58	
9/24/2020									
3/10/2021		2.6	1.9		1.9				1.8
3/11/2021	4.5			1.7			1.5	49	
3/12/2021						1.6			
8/23/2021		3.3							
8/24/2021	5.1				1.9		1.8		2.1
8/25/2021			2.3					45	
8/26/2021				1.6		1.4			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/13/2021 2:34 PM 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				
3/10/2021		1.2	1.8						
3/11/2021	1.3				1.2	110			2.9
3/12/2021				3.6			3.4	3.5	
8/23/2021									
8/24/2021		1.5							
8/25/2021	1.6		1.9	3.5	1.2			3.7	
8/26/2021						110	3.1		3.3

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/13/2021 2:34 PM 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, Total (mg/L) Analysis Run 10/13/2021 2:34 PM 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
3/10/2021	
3/11/2021	2.6
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	2.8
8/26/2021	

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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	0.0131 (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, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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)
2/26/2019			0.23		<0.1		0.074 (J)		<0.1
2/27/2019				0.21		0.81		0.47	
2/28/2019									
4/1/2019	<0.1	0.061 (J)							
4/2/2019			0.21		<0.1		0.09 (J)		<0.1
4/3/2019									
4/4/2019				0.13 (J)		0.78		0.08 (J)	
9/16/2019	0.03 (J)						0.1 (J)		<0.1
9/17/2019		0.061 (J)	0.079 (J)						
9/18/2019					0.027 (J)	0.81		0.058 (J)	
9/19/2019				0.13 (J)					
2/3/2020	0.032 (J)	0.061 (J)							
2/4/2020							0.13		<0.1
2/5/2020			0.12	0.14	0.026 (J)				
2/7/2020						0.79		0.072 (J)	
3/16/2020	0.042 (J)	0.052 (J)							
3/17/2020			<0.1		0.044 (J)		0.037 (J)		<0.1
3/18/2020				0.052 (J)		0.71		0.084 (J)	
3/19/2020									
5/4/2020									
9/21/2020		0.037 (J)							
9/22/2020	<0.1		0.1		<0.1		0.068 (J)		<0.1
9/23/2020				0.09 (J)		0.63		0.049 (J)	
9/24/2020									
2/2/2021	0.028 (J)	0.065 (J)	0.071 (J)		<0.1				
2/3/2021							0.088 (J)		<0.1
2/4/2021				0.12		0.69		0.052 (J)	
3/10/2021		0.045 (J)	0.046 (J)		<0.1				<0.1
3/11/2021	<0.1			0.15			0.092 (J)	0.061 (J)	
3/12/2021						0.88			
8/23/2021		0.097 (J)							
8/24/2021	0.062 (J)				0.054 (J)		0.16		0.073 (J)
8/25/2021			0.13					0.099 (J)	
8/26/2021				0.16		0.77			

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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
2/26/2019	0.068 (J)	0.14 (J)	<0.1						
2/27/2019				0.047 (J)	0.25	0.054 (J)		0.06 (J)	
2/28/2019							1.4		0.28
4/1/2019									
4/2/2019		0.14 (J)	0.039 (J)						0.33
4/3/2019				0.048 (J)	0.24	0.5	1.3	0.084 (J)	
4/4/2019	0.087 (J)								
9/16/2019									
9/17/2019		0.14 (J)							
9/18/2019	0.066 (J)		0.033 (J)		0.22				0.32
9/19/2019				0.037 (J)		0.42	1.3	0.093 (J)	
2/3/2020									
2/4/2020		0.13	0.031 (J)						
2/5/2020				0.045 (J)	0.2		1.3	0.098 (J)	
2/7/2020	0.079 (J)					0.25			0.35
3/16/2020									
3/17/2020		0.11	0.04 (J)						
3/18/2020	<0.1			<0.1				0.033 (J)	
3/19/2020					0.15	0.057 (J)	1		
5/4/2020									0.36
9/21/2020		0.091 (J)	<0.1						
9/22/2020						0.14			
9/23/2020	0.05 (J)						0.82	0.064 (J)	0.25
9/24/2020				0.18	<0.1				
2/2/2021		0.15	0.035 (J)						
2/3/2021				0.027 (J)		0.15		0.082 (J)	0.3
2/4/2021	0.064 (J)				0.16		0.91		
3/10/2021		0.12	<0.1						
3/11/2021	0.05 (J)				0.18	0.16			0.31
3/12/2021				0.044 (J)			0.98	0.096 (J)	
8/23/2021									
8/24/2021		0.17							
8/25/2021	0.093 (J)		0.077 (J)	0.056 (J)	0.2			0.14	
8/26/2021						0.21	1		0.38

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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, total (mg/L) Analysis Run 10/13/2021 2:34 PM 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)
2/2/2021	
2/3/2021	
2/4/2021	0.033 (J)
3/10/2021	
3/11/2021	0.04 (J)
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	0.071 (J)
8/26/2021	

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/13/2021 2:34 PM 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)	WGWA-5 (bg)	WGWC-16
5/17/2016	5.24	6.23	7.81						
5/18/2016				8.96	5.5	7.75	7.92	5.47	6.06
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		7.29	5.89
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	5.35	5.28
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		5.25	5.46
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	6.99	5.45
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, Field (S.U.) Analysis Run 10/13/2021 2:34 PM 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)	WGWA-5 (bg)	WGWC-16
10/4/2018				6.4					5.28
2/25/2019	5.25	6.02							
2/26/2019			7.66		5.62		7.87	5.21	
2/27/2019				6.23		7.4			5.08
2/28/2019									
4/1/2019	5.31	6.09							
4/2/2019			7.53		5.6		7.94	5.25	
4/3/2019									
4/4/2019				6.46		7.58			5.19
9/16/2019	5.28						7.55	6.94	
9/17/2019		6.25	6.47						
9/18/2019					5.6	7.8			5.19
9/19/2019				6.45					
2/3/2020	5.4	6.09							
2/4/2020							7.74	5.31	
2/5/2020			6.73	6.42	5.54				
2/7/2020						7.66			5.17
3/16/2020	5.29	6.01							
3/17/2020			6.36		5.32		7.96	5.34	
3/18/2020				6.4		7.73			5.08
3/19/2020									
5/4/2020									
9/21/2020		6.05							
9/22/2020	5.09		7.18		5.36		7.4	6.78	
9/23/2020				6.14		7.35			5.05
9/24/2020									
2/2/2021	5.36	6.1	6.48		5.84				
2/3/2021							7.76	5.3	
2/4/2021				6.21		7.77			5.42
3/10/2021		6.11	5.8		4.96			5.22	
3/11/2021	5.26			6.56			7.93		5.21
3/12/2021						7.72			
8/23/2021		6.18							
8/24/2021	5.21				5.53		7.88	6.8	
8/25/2021			6.74						5.25
8/26/2021				6.31		7.58			

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/13/2021 2:34 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWC-17	WGWA-3 (bg)	WGWC-11	WGWC-13	WGWC-8	WGWC-9	WGWC-12	WGWC-19
5/17/2016									
5/18/2016	7.23	6.41	5.55						
5/19/2016				5.93	6.85	5.99	6.31	6.91	
7/18/2016				5.9661					
7/19/2016									
7/20/2016	7.281557	6.662463	5.656628		6.705264	6.194334	6.345061	6.962608	
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	6.33	6.51	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	6.75	6.27	5.53						
3/15/2017				5.97	6.75	5.77	5.99	6.3	6.78
3/17/2017									
4/11/2017									6.79
4/24/2017									
4/25/2017	6.84	6.26	5.59						
4/26/2017				6.17	6.57	5.39	6.03	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	6.47			6.55				
8/10/2017				6.05		5.59	5.86	6.7	6.59
8/25/2017									
10/10/2017									
10/11/2017	6.75	6.47	5.51						
10/12/2017				6.89	6.67	5.46	6.09	6.89	6.7
3/27/2018									
3/28/2018	6.79		5.6						
3/29/2018				6.85	6.99	5.43	5.89	7.08	6.88
3/30/2018		6.71							
6/13/2018									
6/14/2018	6.67	6.15	5.58	5.89	6.39	5.76	6.47	6.73	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, Field (S.U.) Analysis Run 10/13/2021 2:34 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWC-17	WGWA-3 (bg)	WGWC-11	WGWC-13	WGWC-8	WGWC-9	WGWC-12	WGWC-19
10/4/2018		6.14		5.81	6.5	5.39	6.17	6.79	6.67
2/25/2019									
2/26/2019	6.74	6.17	5.6						
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						6.75
4/3/2019				6.07	6.47	5.55	6.1	6.91	
4/4/2019		6.16							
9/16/2019									
9/17/2019	6.93								
9/18/2019		6.17	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						
2/5/2020				5.89	6.44		6.54	6.76	
2/7/2020		6.34				5.38			7.08
3/16/2020									
3/17/2020	6.83		5.61						
3/18/2020		6.28		5.89				6.94	
3/19/2020					6.56	6.43	6.64		
5/4/2020									6.9
9/21/2020	6.81		5.35						
9/22/2020						5.17			
9/23/2020		5.89					5.8	6.42	6.59
9/24/2020				5.5	6.29				
2/2/2021	6.61		5.78						
2/3/2021				5.21		5.08		6.15	6.75
2/4/2021		6.31			6.34		6.22		
3/10/2021	7.19		5.49						
3/11/2021		5.96			5.95	5.35			7.12
3/12/2021				5.46			5.88	6.66	
8/23/2021									
8/24/2021	7.22								
8/25/2021		6.09	5.52	5.66	6.27			6.69	
8/26/2021						5.36	5.84		6.66

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/13/2021 2:34 PM 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, Field (S.U.) Analysis Run 10/13/2021 2:34 PM 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
2/2/2021	
2/3/2021	
2/4/2021	5.76
3/10/2021	
3/11/2021	5.1
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	5.39
8/26/2021	

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/13/2021 2:34 PM 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 as SO4 (mg/L) Analysis Run 10/13/2021 2:34 PM 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)
9/17/2019		1.3	8						
9/18/2019					<1	37		130	
9/19/2019				2.1					
3/16/2020	0.42 (J)	1.3							
3/17/2020			8.5		0.86 (J)		12		4
3/18/2020				2.1		17		120	
3/19/2020									
5/4/2020									
9/21/2020		1.1							
9/22/2020	<1		9		0.38 (J)		8		1.5
9/23/2020				1.8		21		85	
9/24/2020									
3/10/2021		0.9 (J)	7.1		<1				<1
3/11/2021	<1			2.8			8.4	64	
3/12/2021						19			
8/23/2021		1.3							
8/24/2021	<1				<1		8.9		2.8
8/25/2021			8.2					63	
8/26/2021				1.8		16			

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/13/2021 2:34 PM 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)				
3/10/2021		8.1	0.91 (J)						
3/11/2021	3.9				2.9	220			4
3/12/2021				2			62	14	
8/23/2021									
8/24/2021		7.9							
8/25/2021	3.3		0.79 (J)	1.1	1.8			13	
8/26/2021						220	52		3.5

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/13/2021 2:34 PM 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 as SO4 (mg/L) Analysis Run 10/13/2021 2:34 PM 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
3/10/2021	
3/11/2021	1.7
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	<1
8/26/2021	

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/13/2021 2:34 PM 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 [TDS] (mg/L) Analysis Run 10/13/2021 2:34 PM 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)
9/17/2019		120	76						
9/18/2019					35	160		520	
9/19/2019				52					
3/16/2020	23	90							
3/17/2020			81		19		120		18
3/18/2020				58		160		370	
3/19/2020									
5/4/2020									
9/21/2020		100							
9/22/2020	24		96		15		130		190
9/23/2020				50		150		250	
9/24/2020									
3/10/2021		100	72		20				19
3/11/2021	24			52			110	190	
3/12/2021						130			
8/23/2021		110							
8/24/2021	32				24		120		150
8/25/2021			92					220	
8/26/2021				60		150			

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/13/2021 2:34 PM 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				
3/10/2021		100	20						
3/11/2021	75				63	530			100
3/12/2021				27			130	78	
8/23/2021									
8/24/2021		110							
8/25/2021	84		21	32	53			110	
8/26/2021						550	170		94

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/13/2021 2:34 PM 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 [TDS] (mg/L) Analysis Run 10/13/2021 2:34 PM 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
3/10/2021	
3/11/2021	24
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	30
8/26/2021	

FIGURE E.

Appendix III Trend Test - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/14/2021, 2:21 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron, total (mg/L)	WGWC-16	-0.8908	-67	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1894	76	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	11.35	114	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.1576	72	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	19.27	119	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.03558	-89	-87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1308	-130	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.6018	87	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.18	97	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.415	67	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	56.43	113	63	Yes	17	0	n/a	n/a	0.01	NP

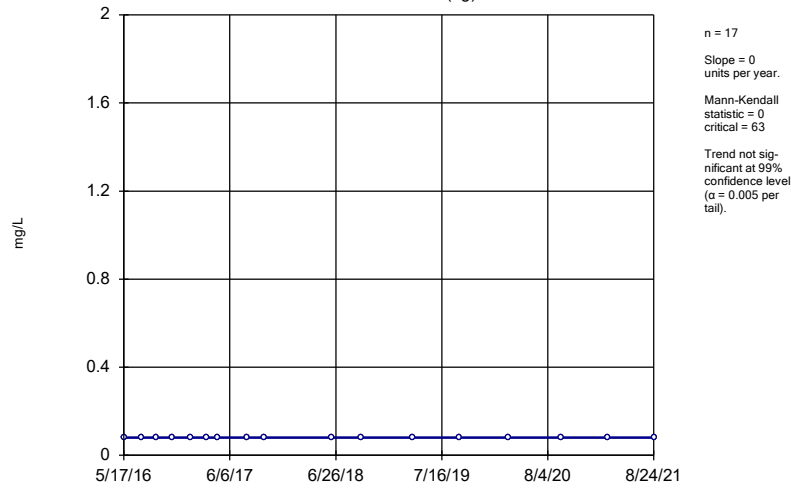
Appendix III Trend Test - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/14/2021, 2:21 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWA-1 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-18 (bg)	0	16	63	No	17	94.12	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-2 (bg)	0	-25	-63	No	17	88.24	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-3 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-4 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-5 (bg)	0	0	58	No	16	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-6 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-7 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-16	-0.8908	-67	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1894	76	63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.04945	60	63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-1 (bg)	0.04698	57	63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.185	-38	-63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-2 (bg)	-0.395	-34	-63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-3 (bg)	0	1	63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-4 (bg)	0	-29	-63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-5 (bg)	-0.04844	-17	-58	No	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-6 (bg)	0	12	63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-7 (bg)	-0.06577	-24	-63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	11.35	114	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.1576	72	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-18 (bg)	-0.07462	-26	-63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-2 (bg)	0.05277	43	63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-3 (bg)	0	0	63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-4 (bg)	0	-35	-63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.08802	-54	-58	No	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-6 (bg)	0	7	63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-7 (bg)	0	-4	-63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-40.74	-58	-63	No	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	19.27	119	63	Yes	17	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-1 (bg)	0	-37	-87	No	21	71.43	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008559	-62	-87	No	21	19.05	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-2 (bg)	-0.01627	-73	-87	No	21	42.86	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-3 (bg)	0	-41	-87	No	21	66.67	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-4 (bg)	-0.004045	-43	-87	No	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-5 (bg)	0	16	81	No	20	85	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-6 (bg)	-0.005197	-59	-87	No	21	9.524	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-7 (bg)	0	-22	-87	No	21	76.19	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.03558	-89	-87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-19	-0.01576	-77	-87	No	21	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1308	-130	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-1 (bg)	0	-19	-63	No	17	88.24	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-18 (bg)	-0.7373	-43	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-2 (bg)	-0.004597	-12	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-3 (bg)	0.01065	10	63	No	17	5.882	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.6018	87	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-5 (bg)	0.05912	24	58	No	16	25	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-6 (bg)	0	6	63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-7 (bg)	0	-16	-63	No	17	70.59	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-81.66	-45	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	13.18	97	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.415	67	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-1 (bg)	2.425	33	63	No	17	23.53	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-18 (bg)	0.1365	3	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-2 (bg)	2.696	17	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-3 (bg)	0.347	7	63	No	17	5.882	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-4 (bg)	1.733	28	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-5 (bg)	1.304	6	58	No	16	12.5	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-6 (bg)	2.921	29	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-7 (bg)	1.224	10	63	No	17	17.65	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	-216	-40	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	56.43	113	63	Yes	17	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

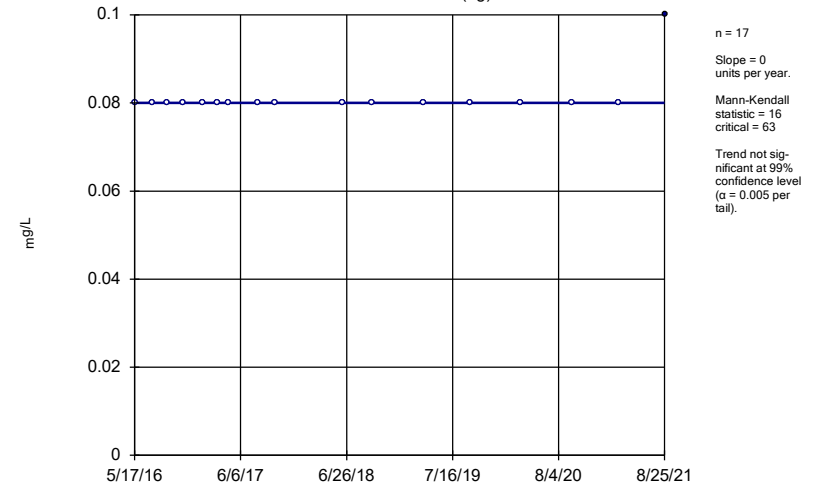
WGWA-1 (bg)



Constituent: Boron, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

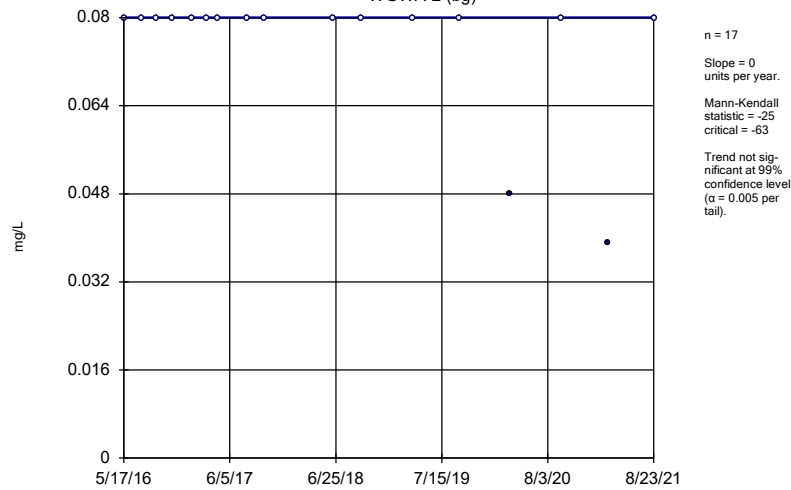
WGWA-18 (bg)



Constituent: Boron, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

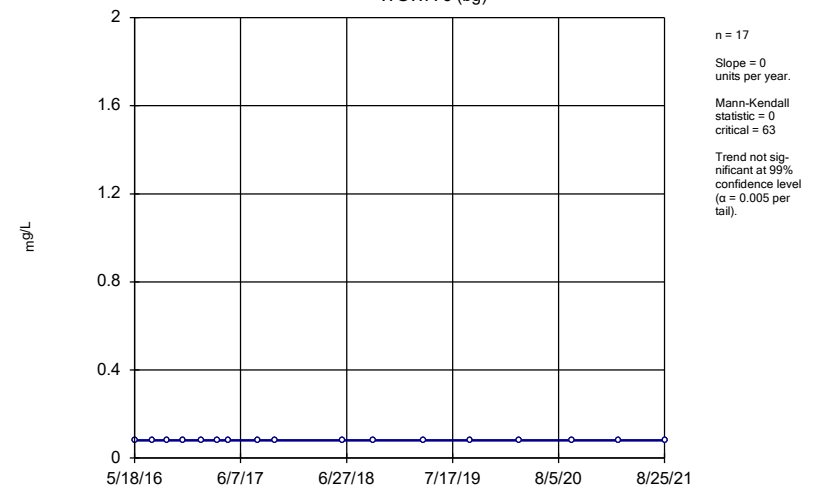
WGWA-2 (bg)



Constituent: Boron, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

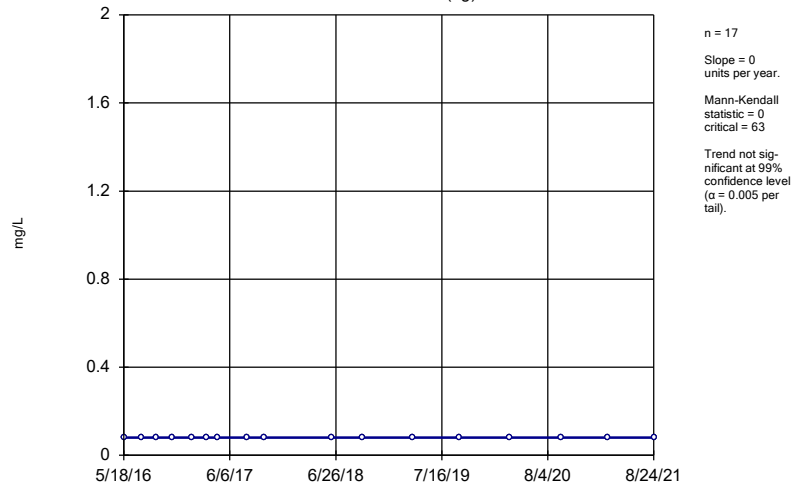
Sen's Slope Estimator

WGWA-3 (bg)



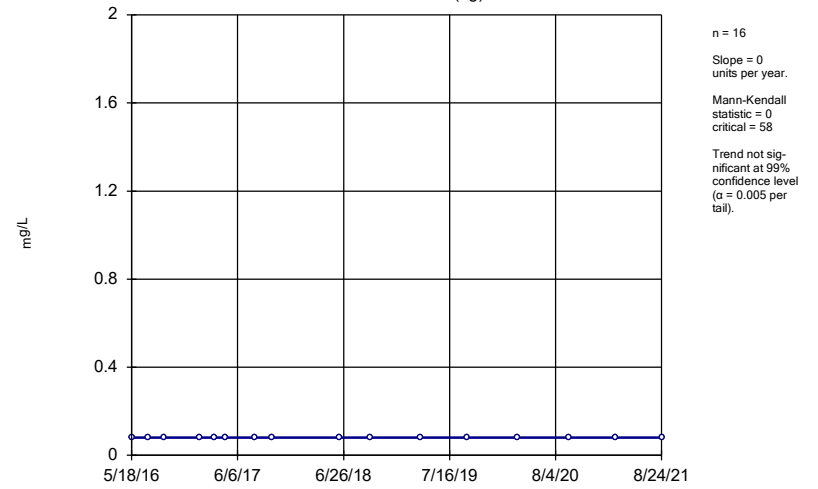
Constituent: Boron, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-4 (bg)



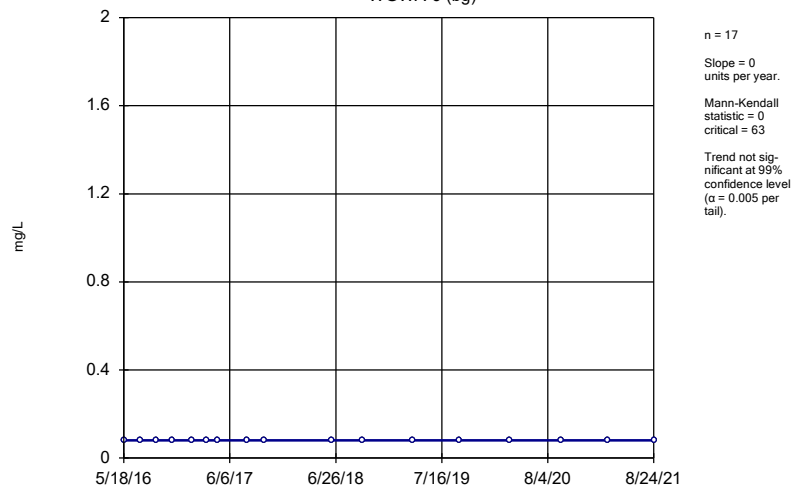
Constituent: Boron, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-5 (bg)



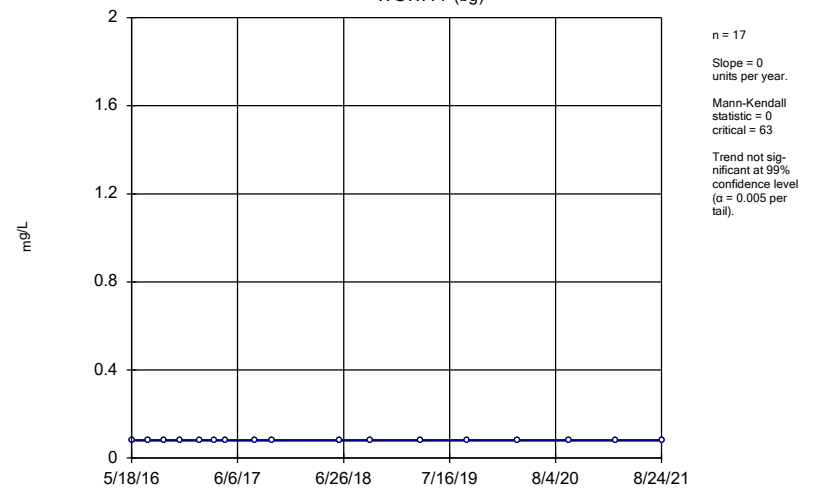
Constituent: Boron, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-6 (bg)



Constituent: Boron, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

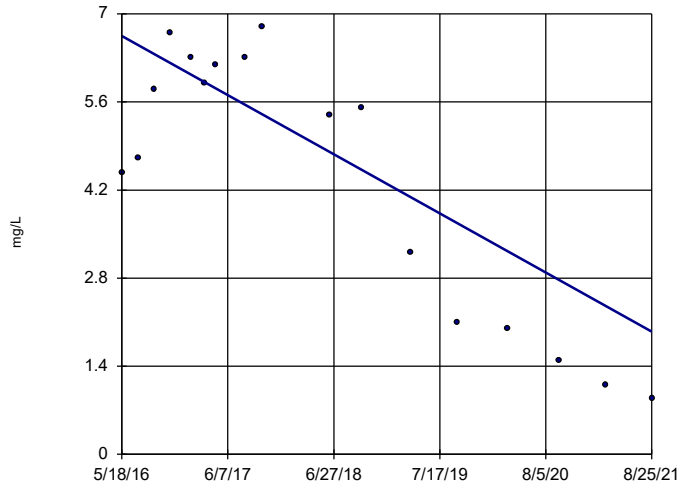
Sen's Slope Estimator WGWA-7 (bg)



Constituent: Boron, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-16

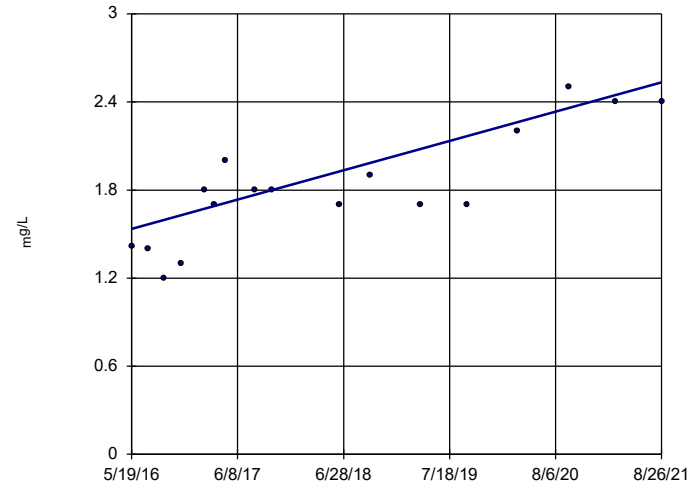


n = 17
 Slope = -0.8908
 units per year.
 Mann-Kendall
 statistic = -67
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-8

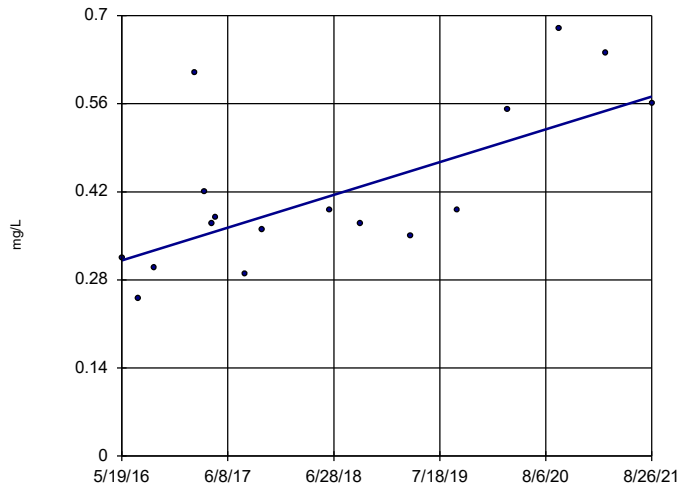


n = 17
 Slope = 0.1894
 units per year.
 Mann-Kendall
 statistic = 76
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-9

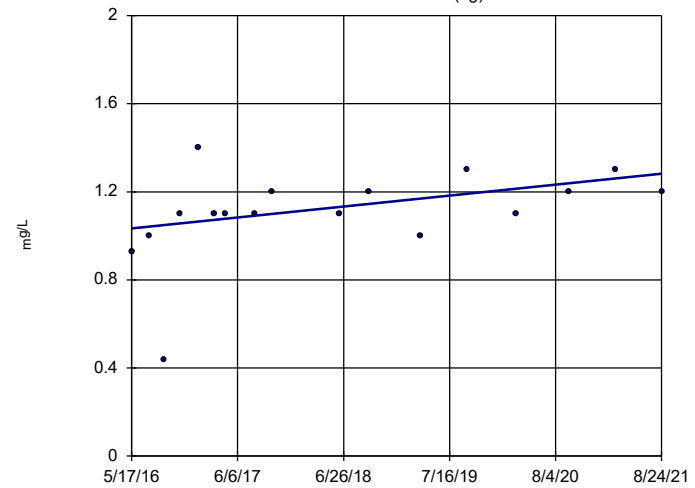


n = 17
 Slope = 0.04945
 units per year.
 Mann-Kendall
 statistic = 60
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-1 (bg)

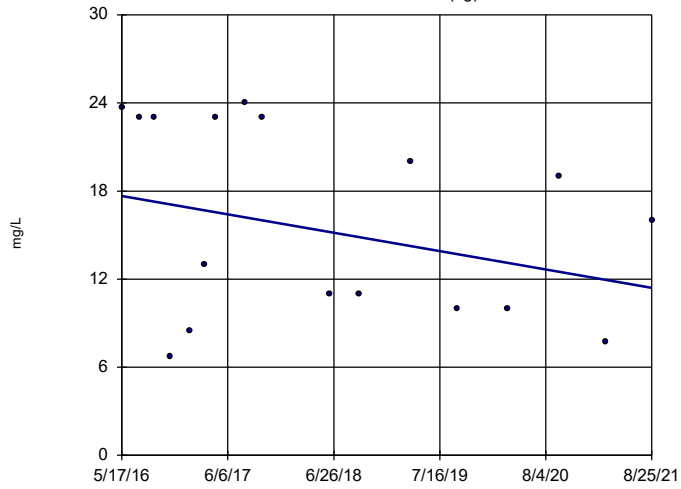


n = 17
 Slope = 0.04698
 units per year.
 Mann-Kendall
 statistic = 57
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-18 (bg)

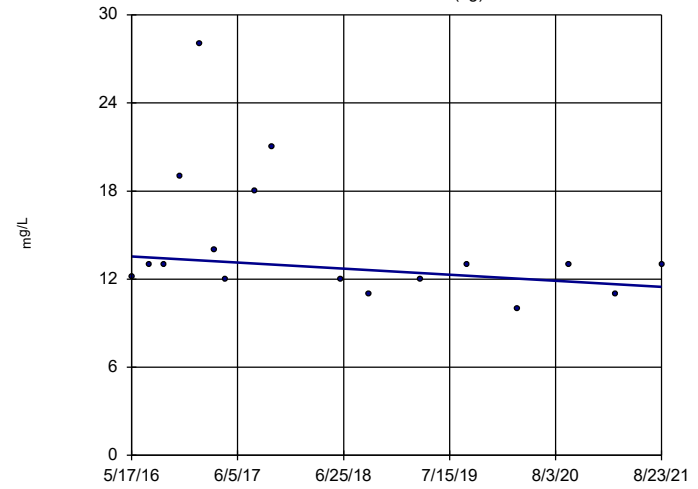


n = 17
 Slope = -1.185
 units per year.
 Mann-Kendall
 statistic = -38
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Calcium, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-2 (bg)

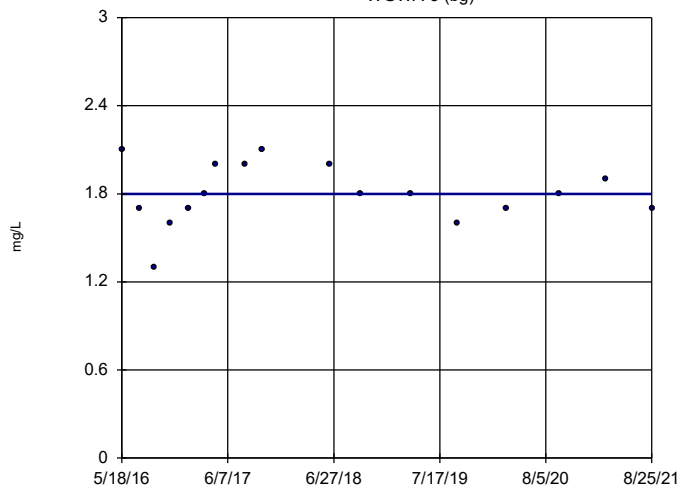


n = 17
 Slope = -0.395
 units per year.
 Mann-Kendall
 statistic = -34
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Calcium, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-3 (bg)

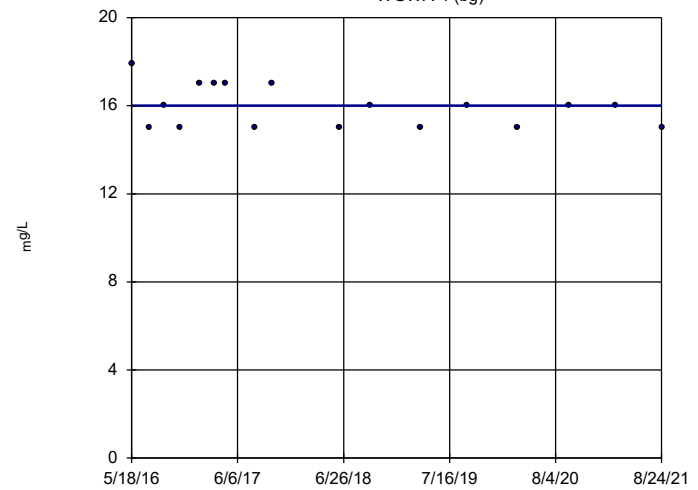


n = 17
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 1
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Calcium, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-4 (bg)

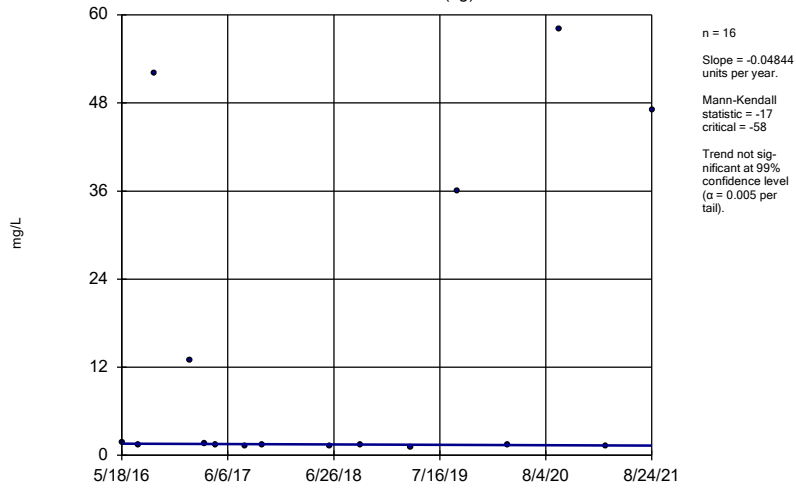


n = 17
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -29
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Calcium, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

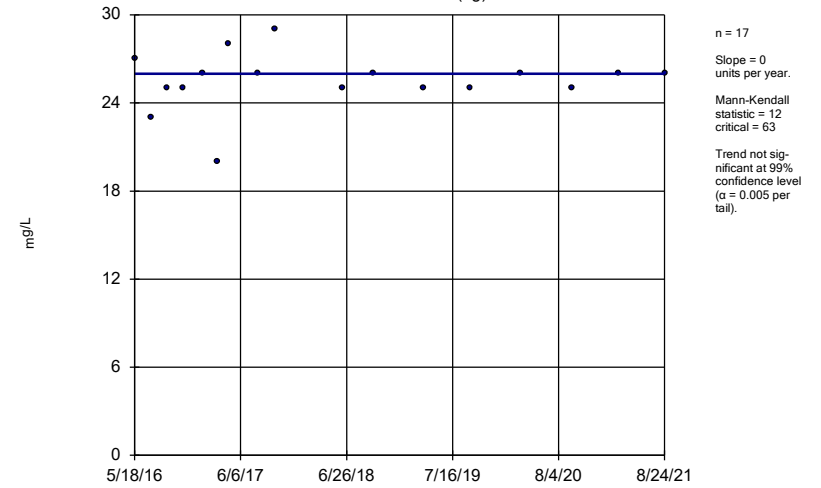
WGWA-5 (bg)



Constituent: Calcium, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

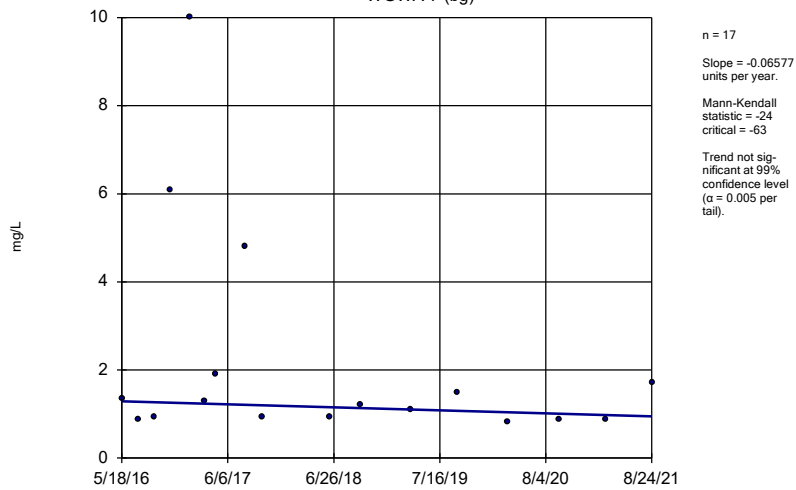
WGWA-6 (bg)



Constituent: Calcium, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

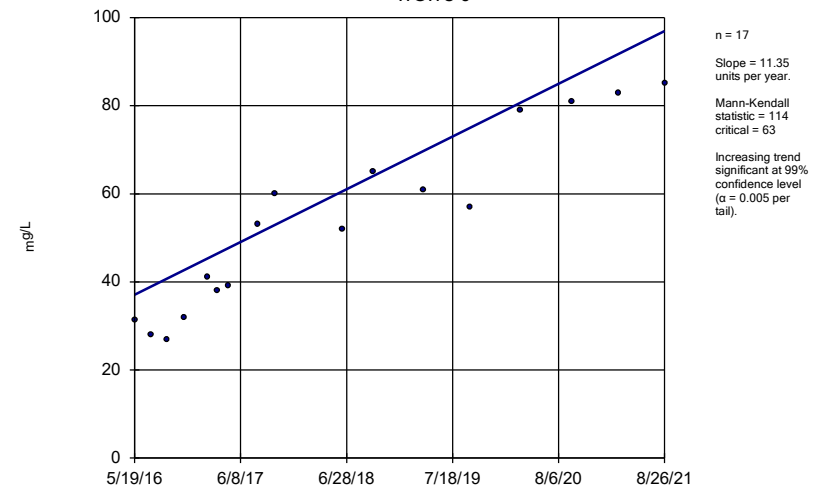
WGWA-7 (bg)



Constituent: Calcium, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

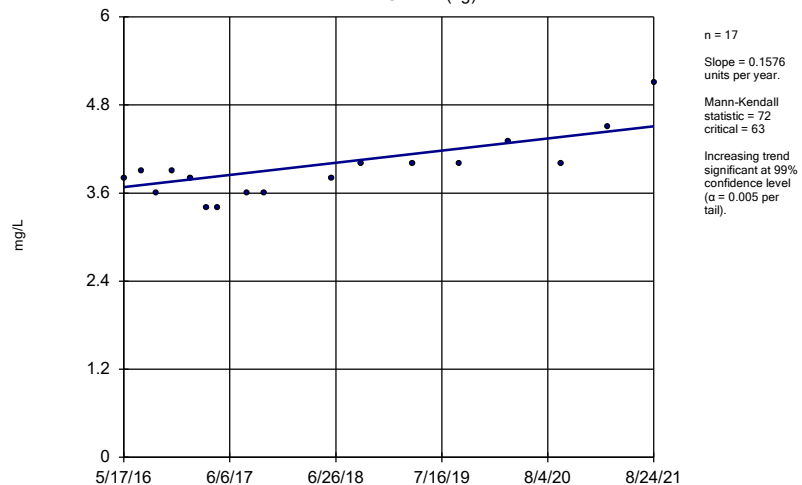
WGWC-8



Constituent: Calcium, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

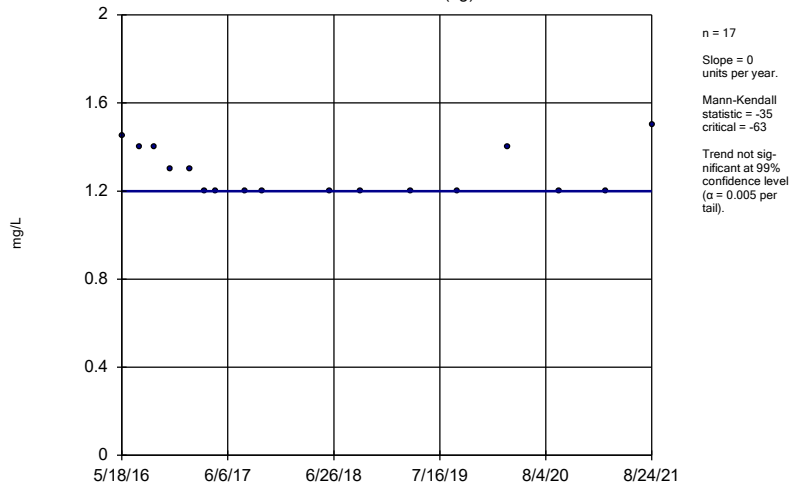
Sen's Slope Estimator

WGWA-1 (bg)



Sen's Slope Estimator

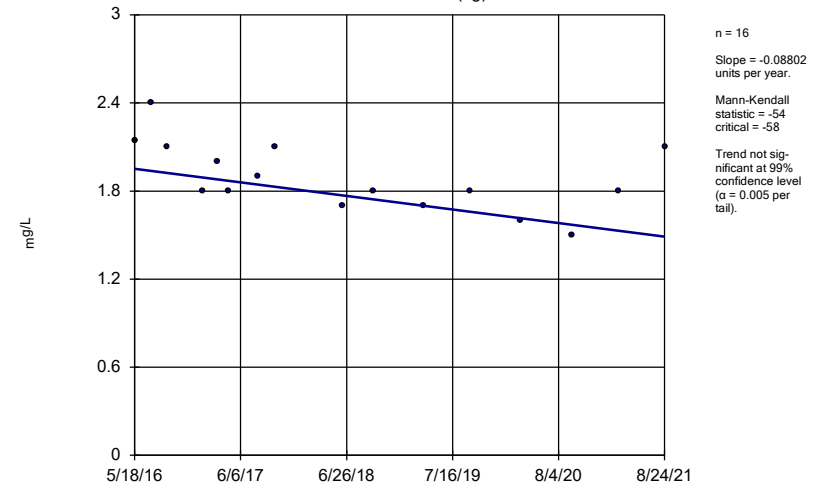
WGWA-4 (bg)



Constituent: Chloride, Total Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

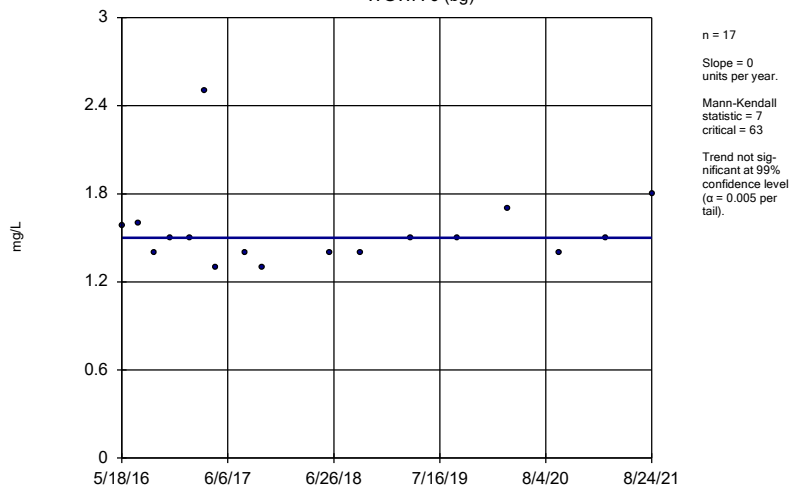
WGWA-5 (bg)



Constituent: Chloride, Total Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

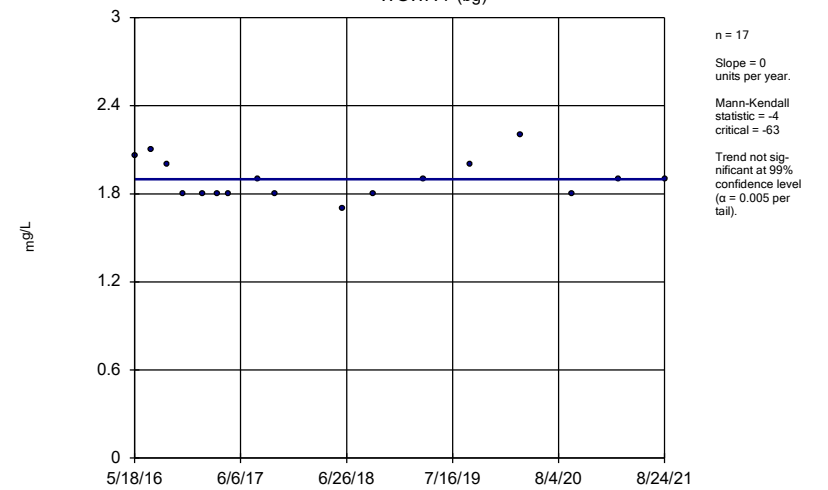
WGWA-6 (bg)



Constituent: Chloride, Total Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

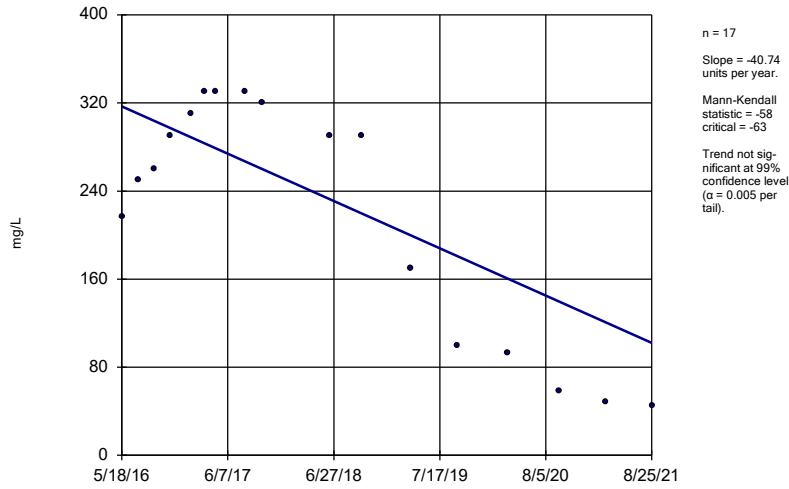
WGWA-7 (bg)



Constituent: Chloride, Total Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

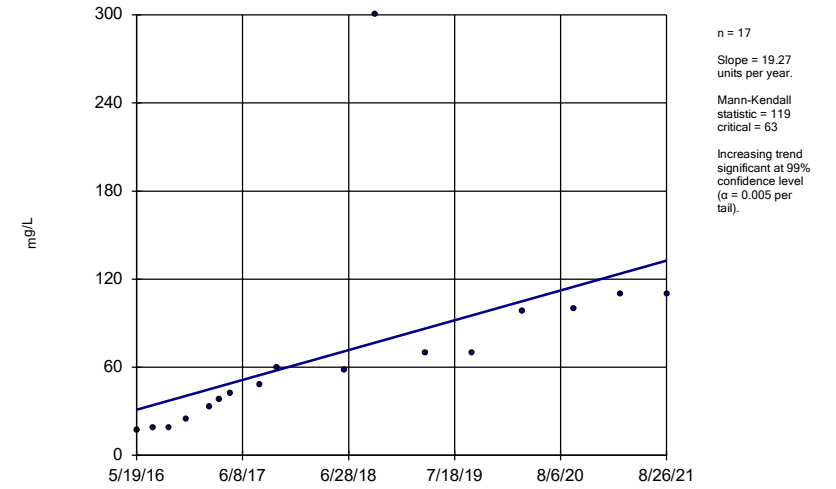
WGWC-16



Constituent: Chloride, Total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

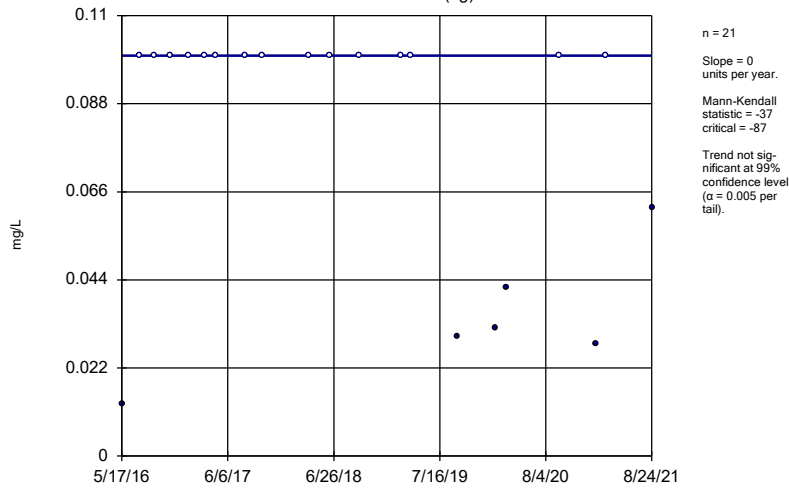
WGWC-8



Constituent: Chloride, Total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

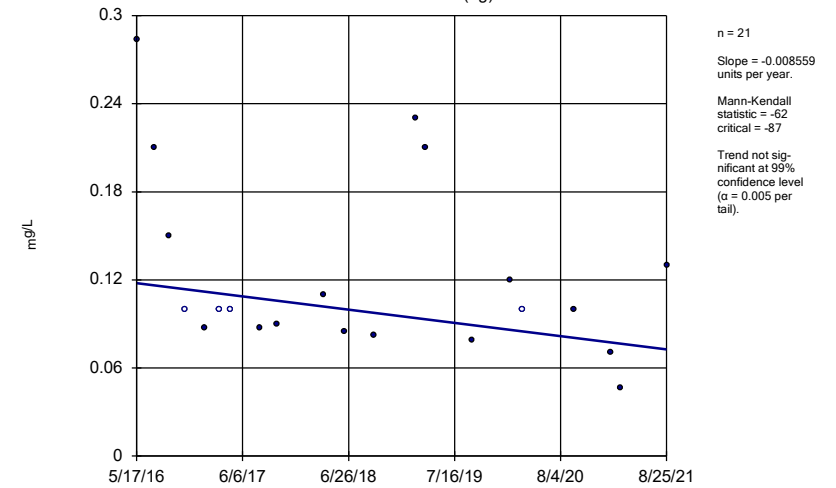
WGWA-1 (bg)



Constituent: Fluoride, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

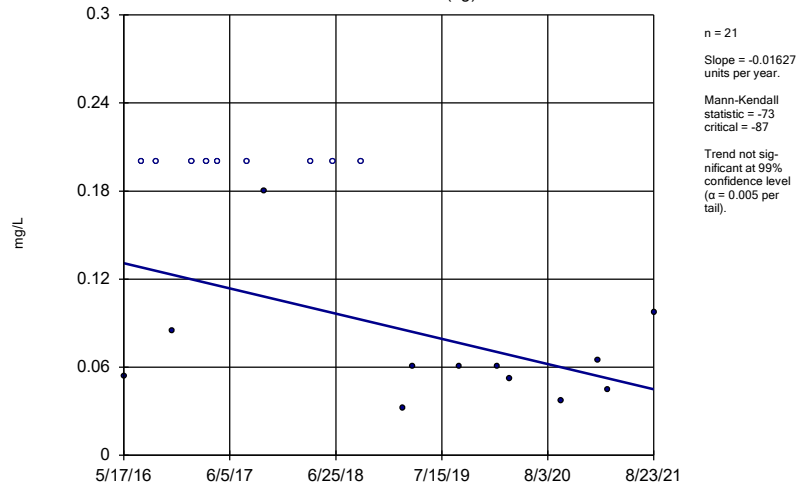
WGWA-18 (bg)



Constituent: Fluoride, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

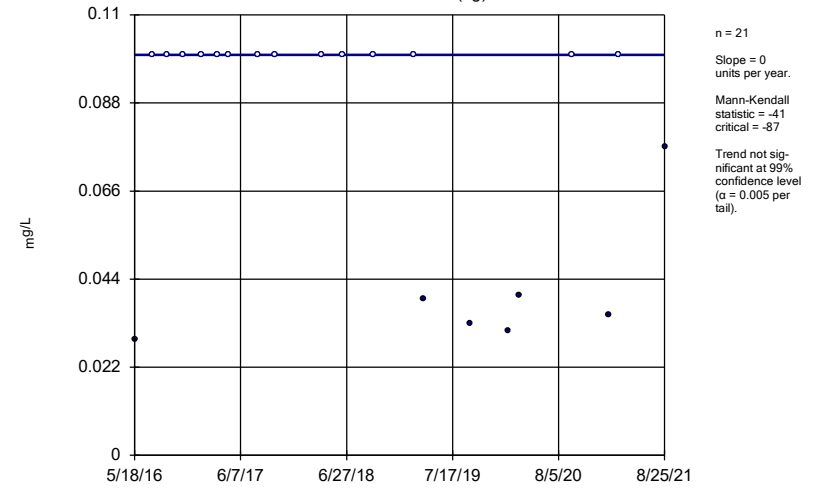
WGWA-2 (bg)



Constituent: Fluoride, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

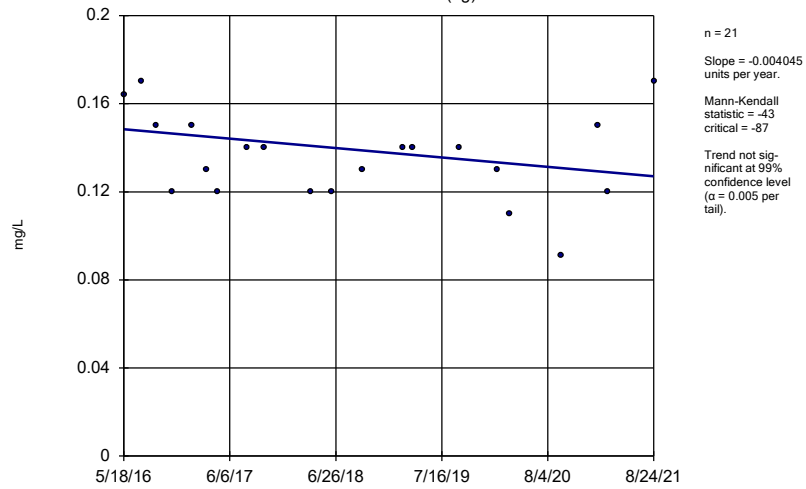
WGWA-3 (bg)



Constituent: Fluoride, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

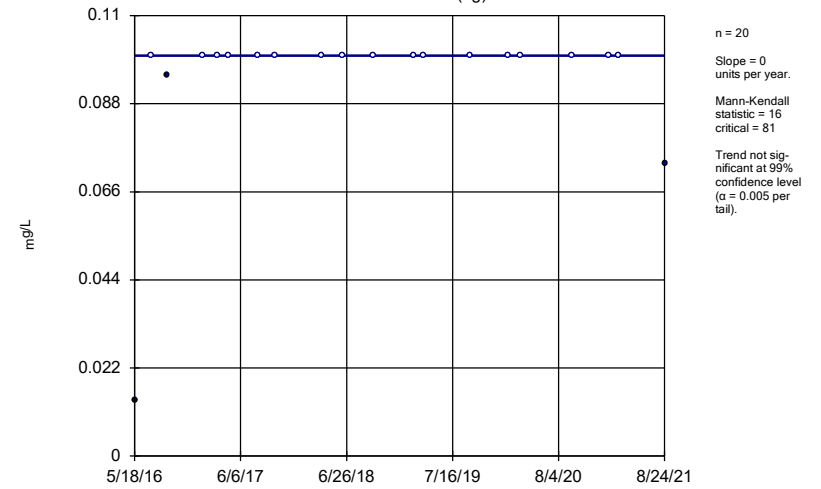
WGWA-4 (bg)



Constituent: Fluoride, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

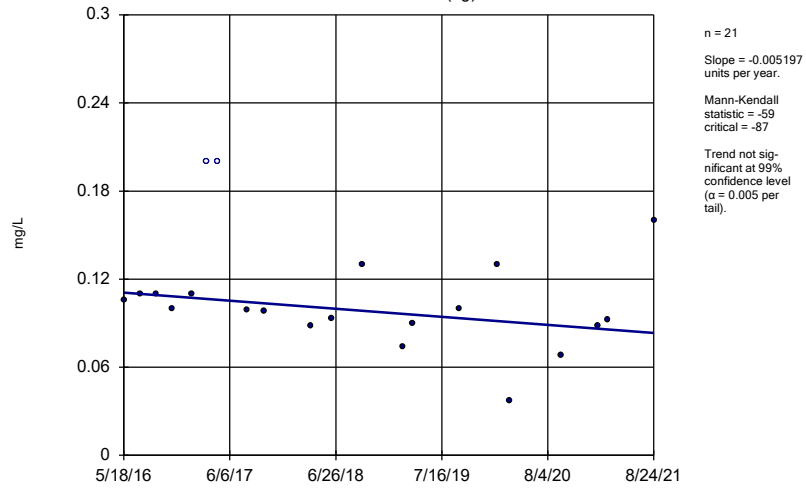
WGWA-5 (bg)



Constituent: Fluoride, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

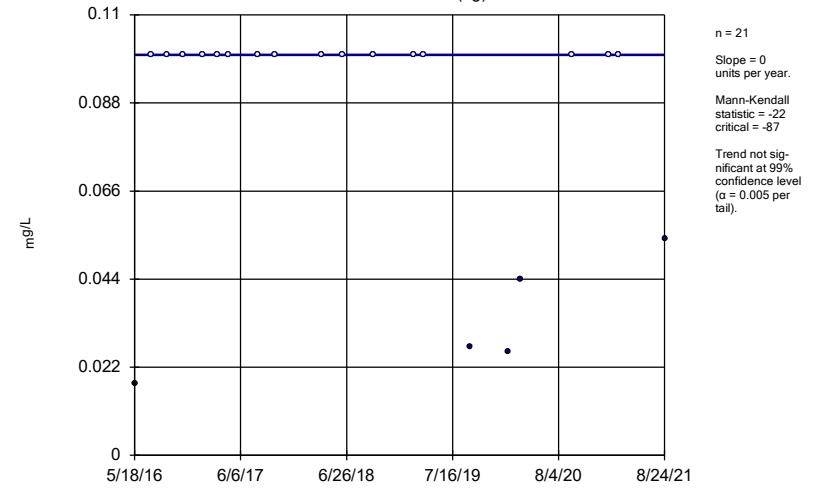
WGWA-6 (bg)



Constituent: Fluoride, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

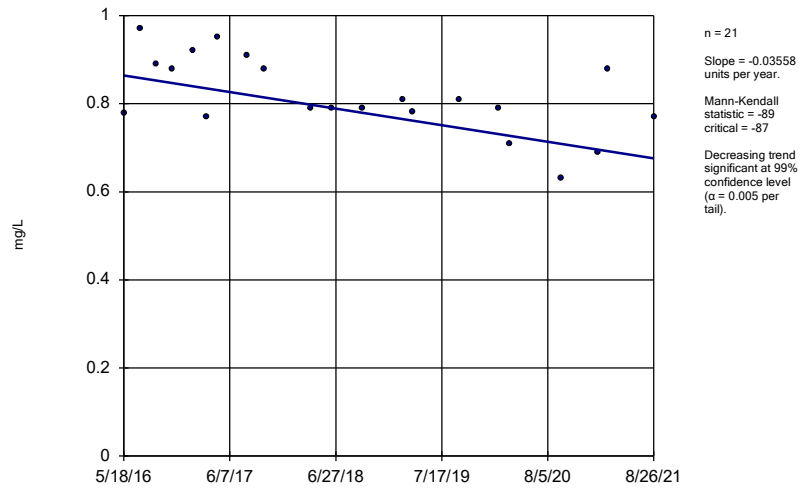
WGWA-7 (bg)



Constituent: Fluoride, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

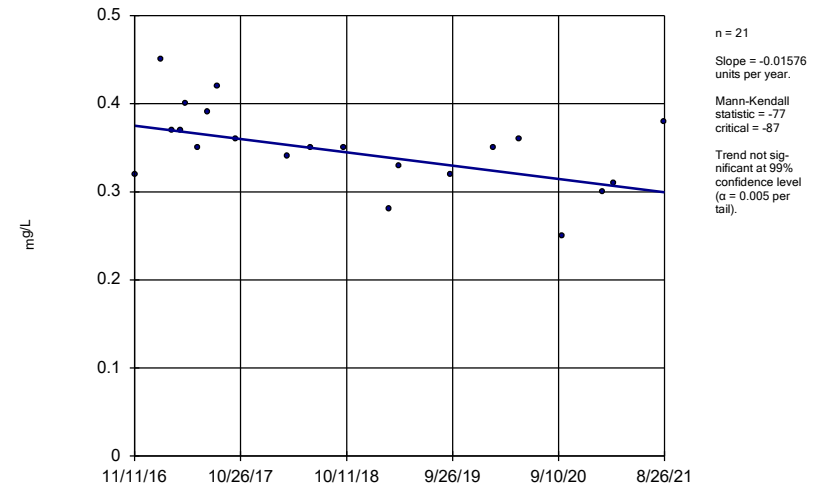
WGWC-15



Constituent: Fluoride, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

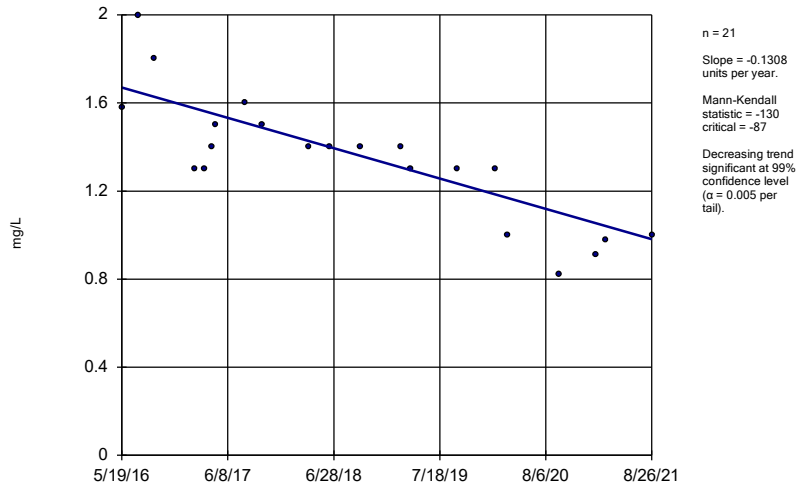
WGWC-19



Constituent: Fluoride, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-9

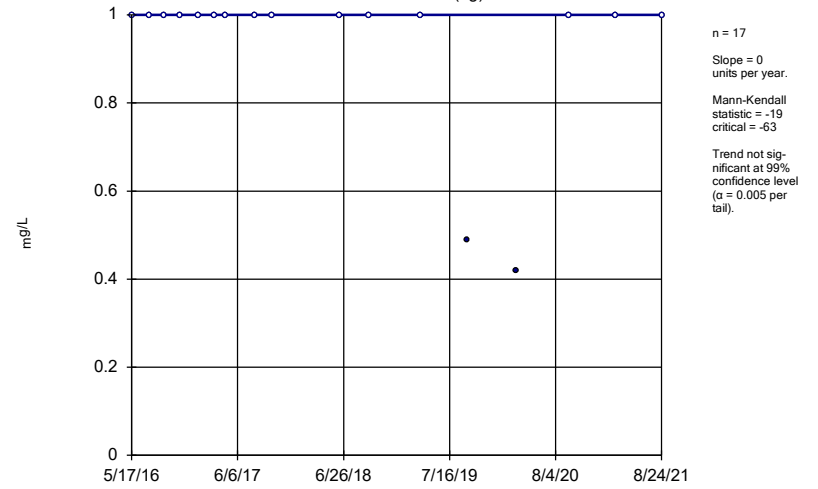


Constituent: Fluoride, total Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

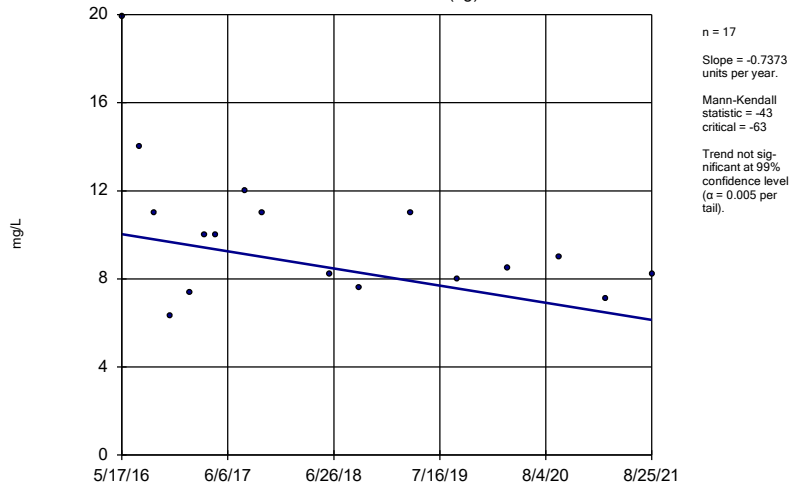
WGWA-1 (bg)



Constituent: Sulfate as SO4 Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

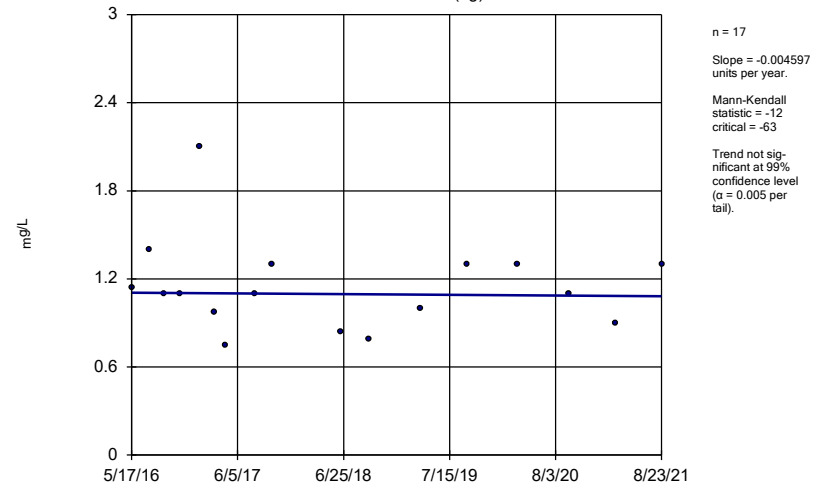
WGWA-18 (bg)



Constituent: Sulfate as SO4 Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

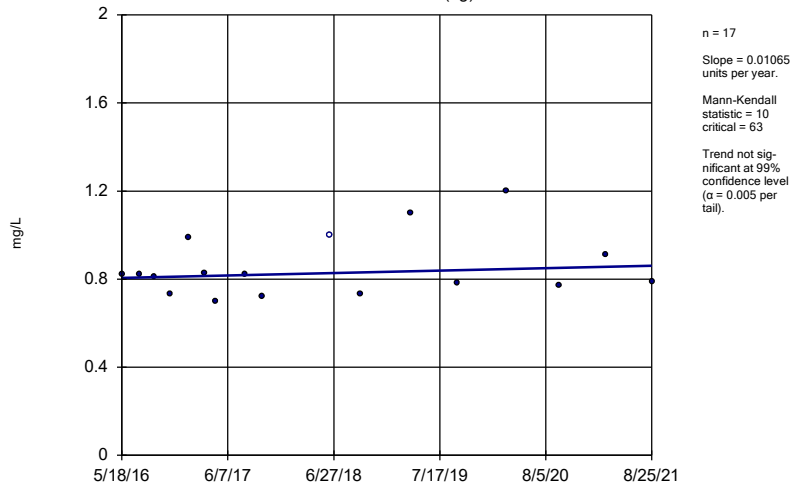
WGWA-2 (bg)



Constituent: Sulfate as SO4 Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

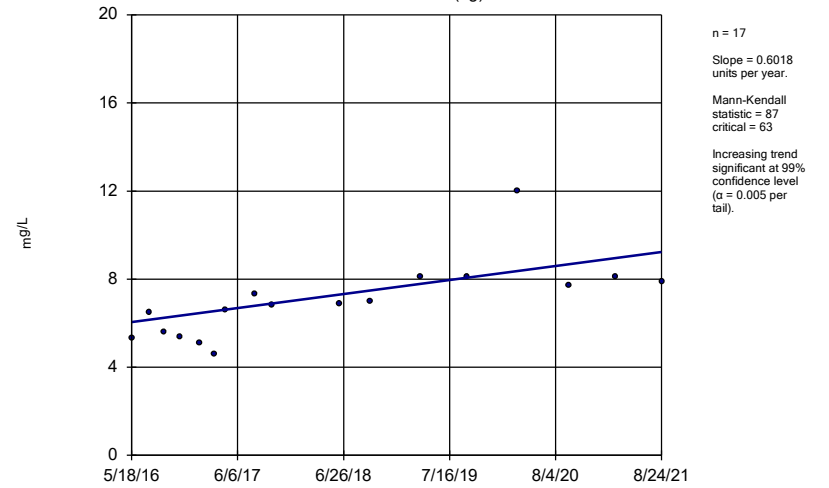
WGWA-3 (bg)



Constituent: Sulfate as SO4 Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

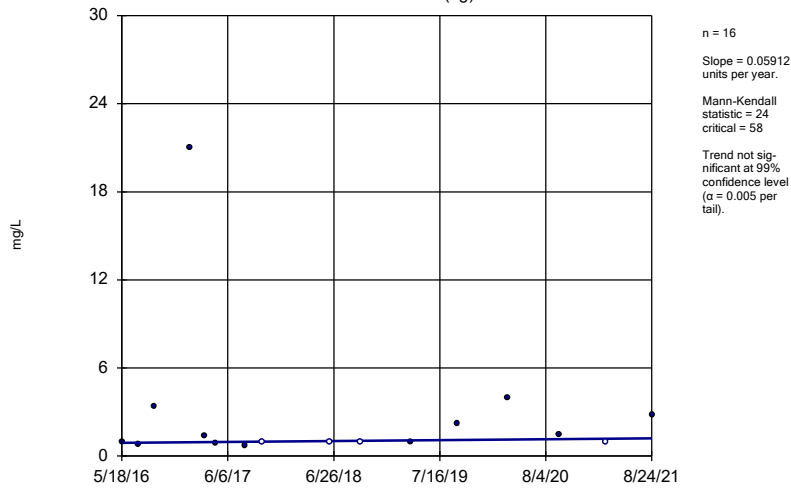
WGWA-4 (bg)



Constituent: Sulfate as SO4 Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

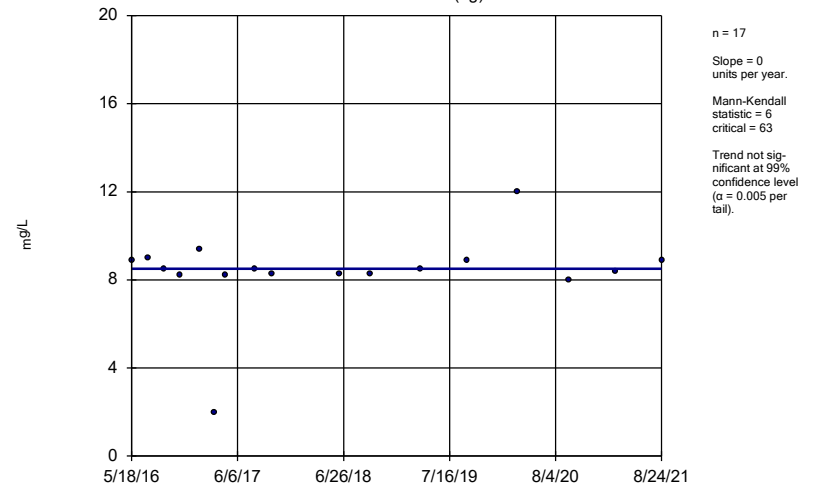
WGWA-5 (bg)



Constituent: Sulfate as SO4 Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

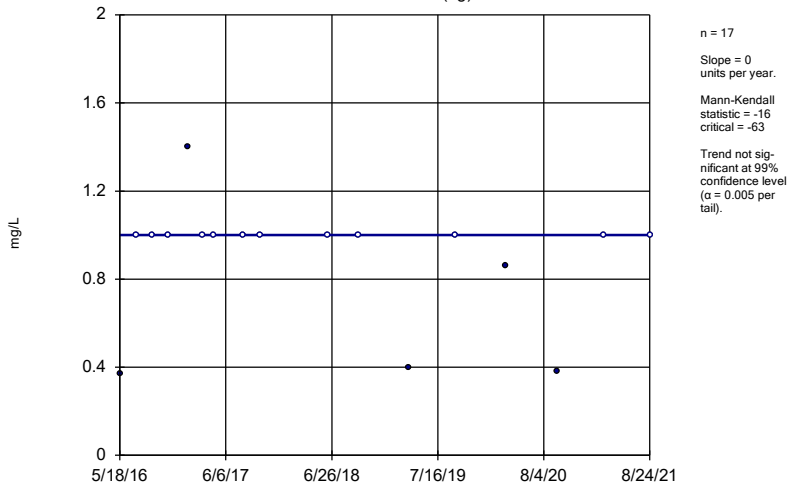
Sen's Slope Estimator

WGWA-6 (bg)



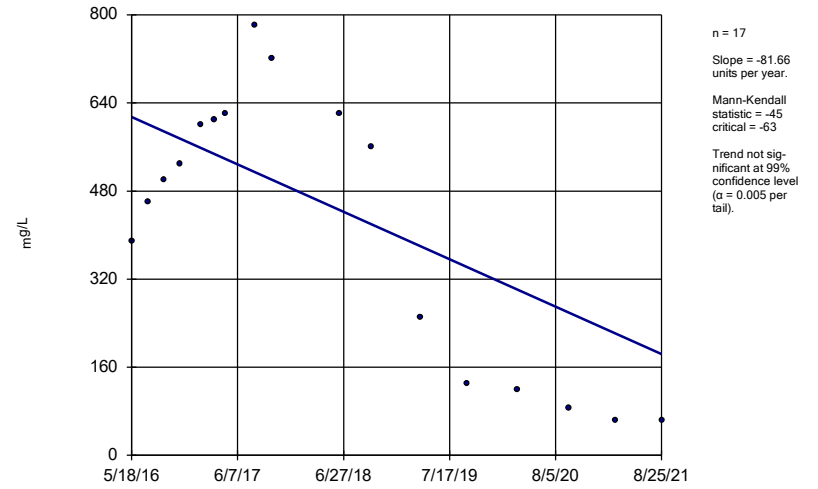
Constituent: Sulfate as SO4 Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
 WGW-7 (bg)



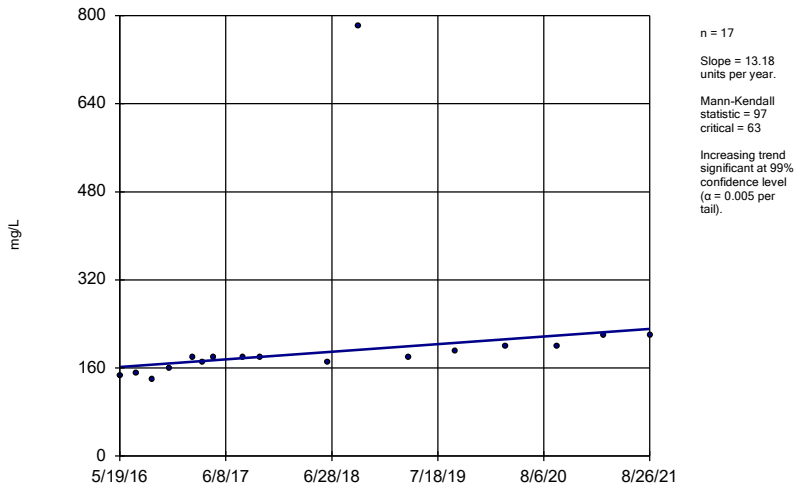
Constituent: Sulfate as SO4 Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
 WGW-16



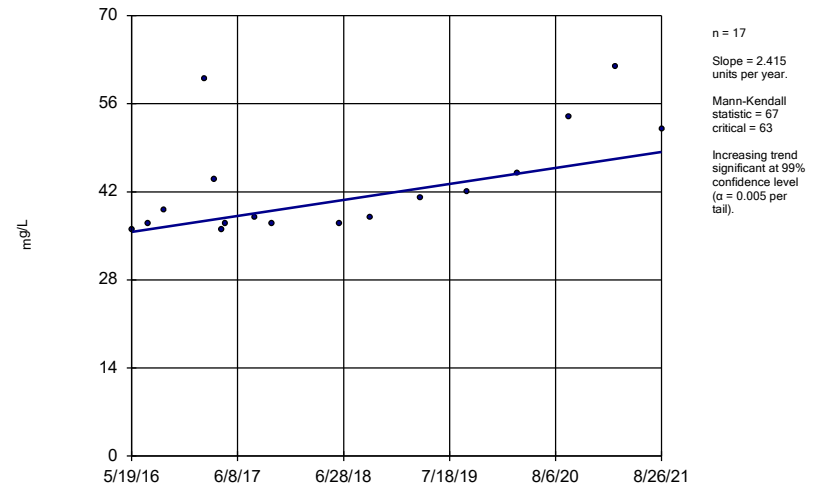
Constituent: Sulfate as SO4 Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
 WGW-8



Constituent: Sulfate as SO4 Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

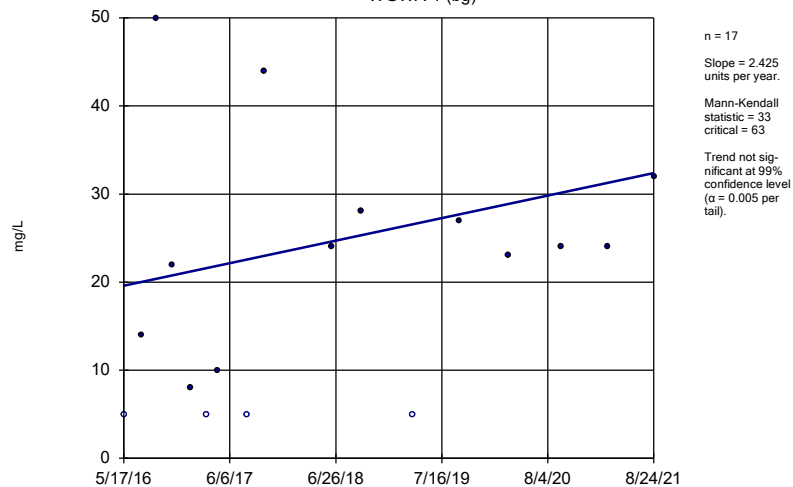
Sen's Slope Estimator
 WGW-9



Constituent: Sulfate as SO4 Analysis Run 10/14/2021 2:19 PM View: Trend Test
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

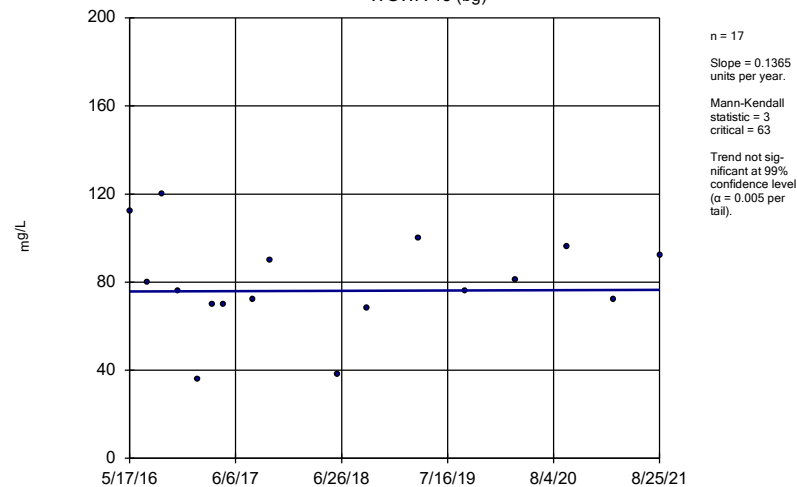
WGWA-1 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

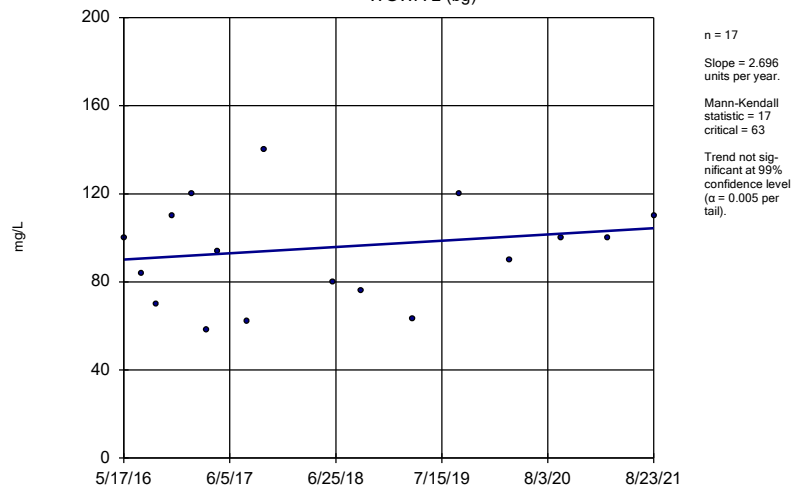
WGWA-18 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-2 (bg)

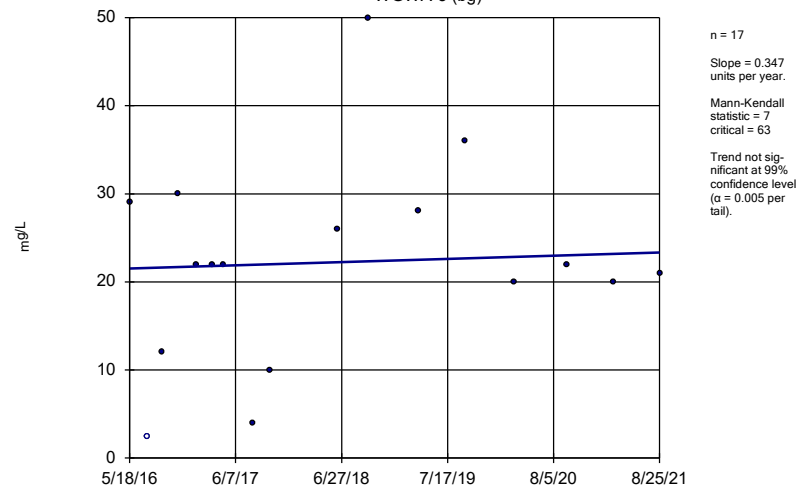


Constituent: Total Dissolved Solids [TDS] Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

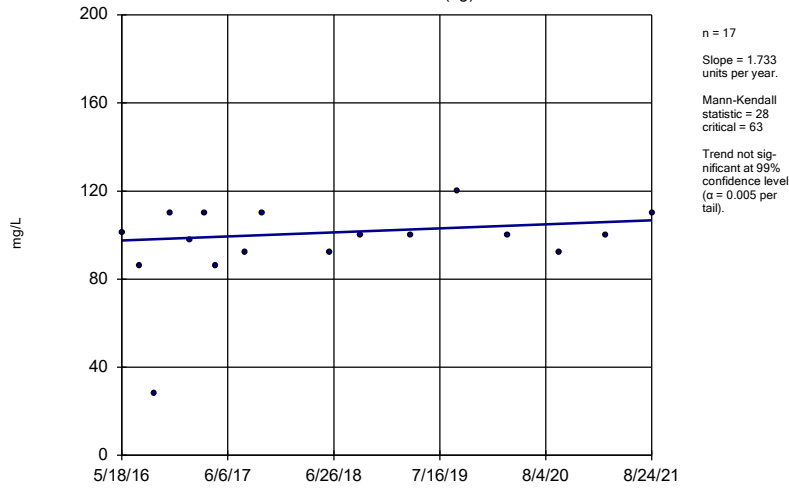
WGWA-3 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-4 (bg)

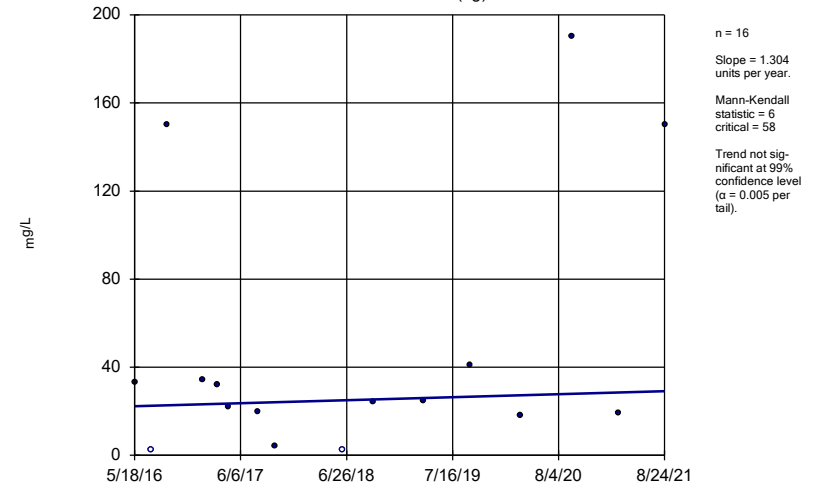


Constituent: Total Dissolved Solids [TDS] Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

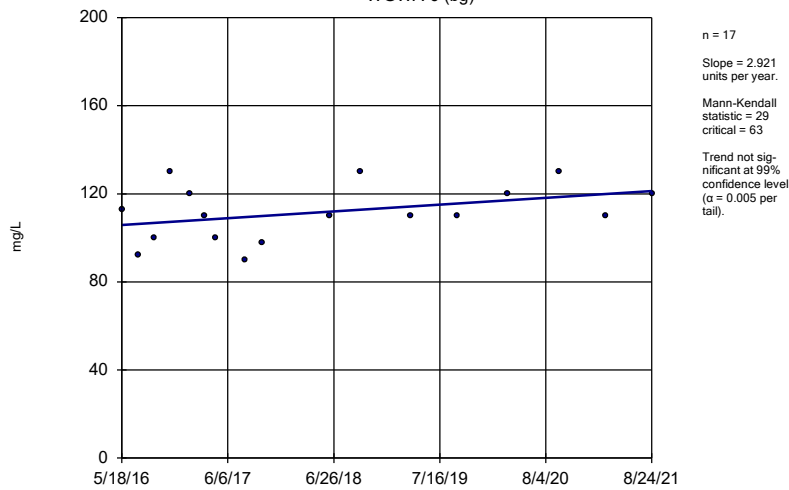
WGWA-5 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-6 (bg)

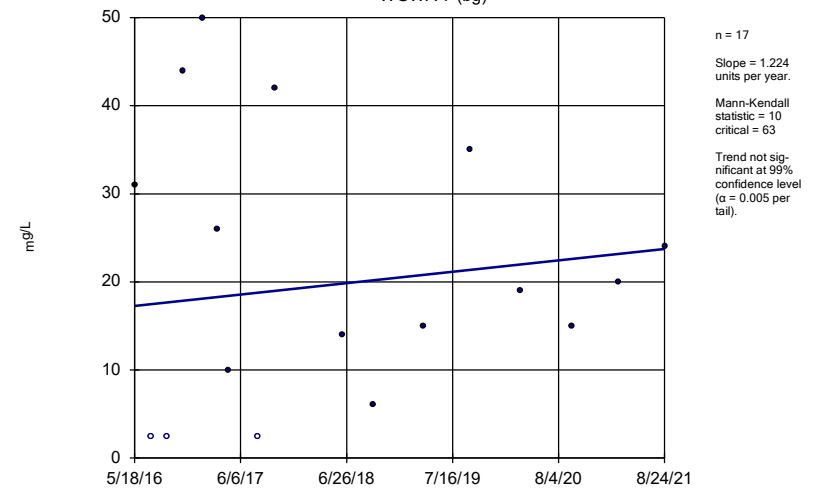


Constituent: Total Dissolved Solids [TDS] Analysis Run 10/14/2021 2:19 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

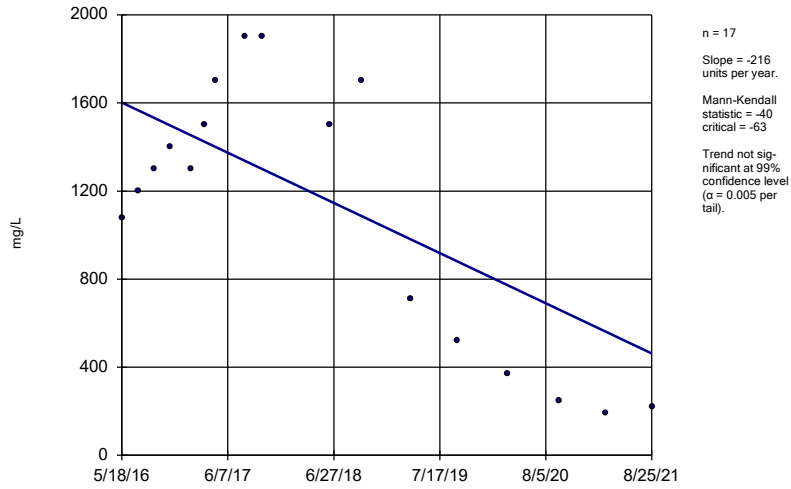
Sen's Slope Estimator

WGWA-7 (bg)



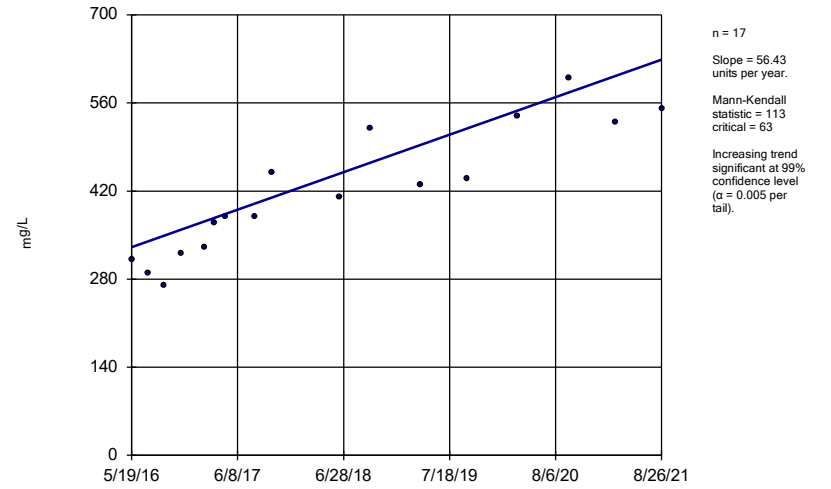
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWC-16



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/14/2021 2:20 PM View: Trend Test
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWC-8



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/14/2021 2:20 PM View: Trend Test
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 10/18/2021, 10:38 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.0022	n/a	n/a	n/a	119	n/a	n/a	98.32	n/a	n/a	0.002234	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0014	n/a	n/a	n/a	159	n/a	n/a	79.25	n/a	n/a	0.0002871	NP Inter(NDs)
Barium (mg/L)	n/a	0.062	n/a	n/a	n/a	159	n/a	n/a	0	n/a	n/a	0.0002871	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	159	n/a	n/a	93.08	n/a	n/a	0.0002871	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	143	n/a	n/a	100	n/a	n/a	0.0006523	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0049	n/a	n/a	n/a	159	n/a	n/a	94.97	n/a	n/a	0.0002871	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.013	n/a	n/a	n/a	158	n/a	n/a	46.2	n/a	n/a	0.0003022	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	10.4	n/a	n/a	n/a	156	n/a	n/a	0	n/a	n/a	0.0003349	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.284	n/a	n/a	n/a	167	n/a	n/a	46.11	n/a	n/a	0.0001905	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	143	n/a	n/a	87.41	n/a	n/a	0.0006523	NP Inter(NDs)
Lithium (mg/L)	n/a	0.009	n/a	n/a	n/a	149	n/a	n/a	50.34	n/a	n/a	0.0004795	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	127	n/a	n/a	88.98	n/a	n/a	0.001482	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	158	n/a	n/a	89.87	n/a	n/a	0.0003022	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	159	n/a	n/a	94.34	n/a	n/a	0.0002871	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	159	n/a	n/a	91.82	n/a	n/a	0.0002871	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 10/18/2021, 10:45 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	0.0558	0.0477	0.04	Yes 20	0.05175	0.007129	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

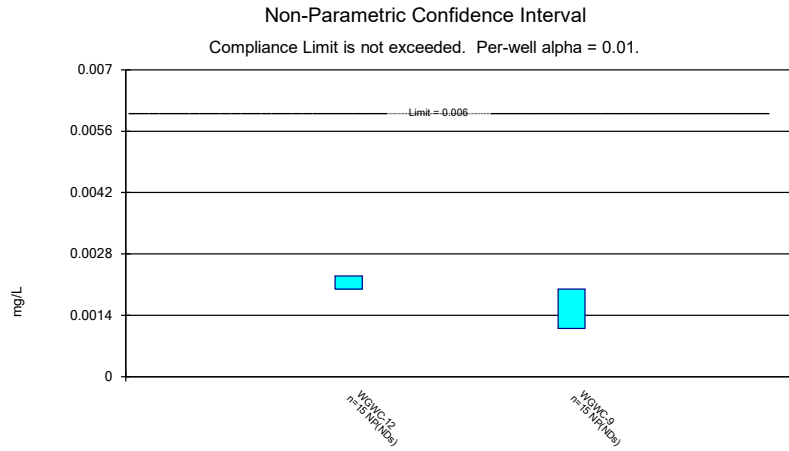
Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/18/2021, 10:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	15	0.00202	0.00007746	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.002	0.0011	0.006	No	15	0.001728	0.0005829	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	20	0.0008715	0.0002529	75	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	20	0.000926	0.0001811	85	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	20	0.00095	0.000154	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00039	0.01	No	20	0.000782	0.0003229	45	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0014	0.00095	0.01	No	20	0.001243	0.0005847	65	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-15	0.00217	0.001307	0.01	No	20	0.001739	0.00076	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0014	0.001	0.01	No	20	0.001158	0.0003311	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-17	0.001	0.00067	0.01	No	20	0.00084	0.0002086	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0008798	0.0005162	0.01	No	20	0.0009625	0.0002774	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	20	0.0009975	0.0002076	85	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	20	0.03856	0.006403	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.0405	0.03202	2	No	20	0.0365	0.007964	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-12	0.01954	0.0154	2	No	20	0.01712	0.004162	0	None	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05611	0.04599	2	No	20	0.05105	0.008912	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04693	0.03107	2	No	20	0.039	0.01397	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02433	0.02023	2	No	20	0.02228	0.003608	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.05813	0.03982	2	No	20	0.04898	0.01613	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-17	0.019	0.011	2	No	20	0.01495	0.004036	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.005	0.0013	2	No	20	0.002913	0.001948	35	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.0011	2	No	20	0.003064	0.001783	40	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.001567	0.0008775	2	No	20	0.002611	0.00187	35	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	WGWC-14A	0.0025	0.00026	0.004	No	20	0.001824	0.00106	70	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	20	0.002386	0.0005098	95	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002114	0.001571	0.004	No	20	0.001843	0.000479	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	20	0.001337	0.00108	45	None	No	0.01	NP (normality)
Chromium (mg/L)	WGWC-10	0.00233	0.00169	0.1	No	20	0.00201	0.0005628	15	None	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0017	0.1	No	20	0.001905	0.0002685	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	20	0.00197	0.00008013	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	20	0.001985	0.00006708	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	20	0.001975	0.0001118	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	20	0.002025	0.0001118	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001563	0.0007636	0.013	No	20	0.001232	0.0008066	5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	20	0.001554	0.00093	35	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001126	0.000479	0.013	No	20	0.0008685	0.0006568	5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0008	0.013	No	20	0.001984	0.0009233	75	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-14A	0.01029	0.005423	0.013	No	20	0.007855	0.004283	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	20	0.002382	0.0005255	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.014	0.00026	0.013	No	20	0.006741	0.006293	10	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.00163	0.0007532	0.013	No	20	0.001191	0.0007719	5	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	20	0.0013	0.001118	45	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0025	0.00066	0.013	No	20	0.00182	0.001019	45	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	20	0.002411	0.0003958	95	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4377	0.1713	10.4	No	20	0.3045	0.2346	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6194	0.1742	10.4	No	20	0.3968	0.392	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.5963	0.1813	10.4	No	20	0.3888	0.3654	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7865	0.4694	10.4	No	20	0.628	0.2793	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8335	0.5318	10.4	No	20	0.6991	0.3011	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6472	0.3074	10.4	No	20	0.5077	0.3456	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.872	0.8325	10.4	No	20	1.352	0.9154	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5347	0.1211	10.4	No	20	0.3279	0.3641	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.5435	0.187	10.4	No	20	0.3653	0.3139	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	2.033	1.336	10.4	No	20	1.685	0.614	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4374	0.1644	10.4	No	20	0.3009	0.2404	0	None	No	0.01	Param.

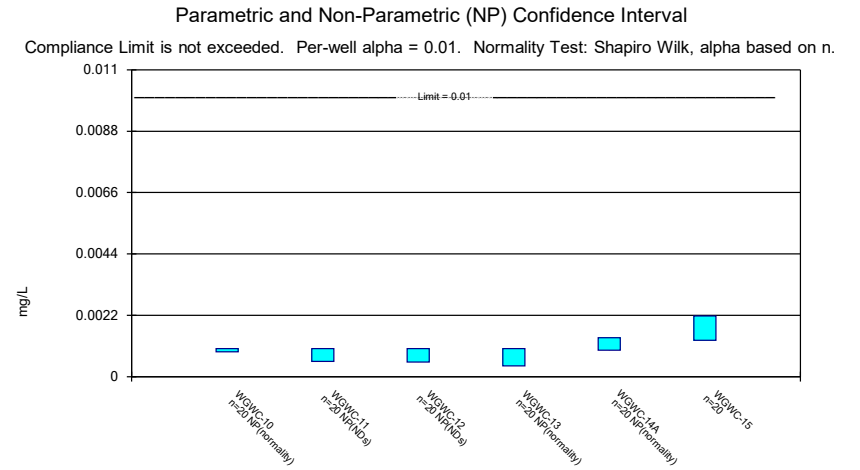
Federal Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/18/2021, 10:45 AM

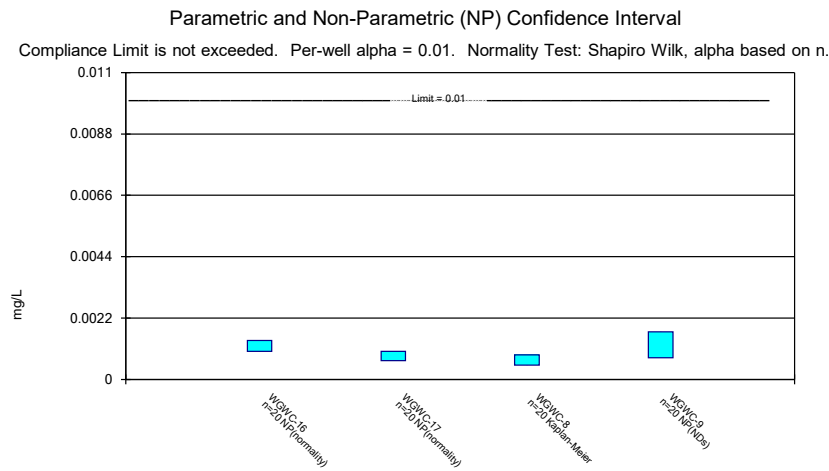
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	WGWC-10	0.1752	0.1304	4	No	21	0.1528	0.04061	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-11	0.056	0.045	4	No	21	0.05348	0.02964	57.14	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-12	0.1009	0.07516	4	No	21	0.085	0.0284	19.05	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-13	0.2907	0.2068	4	No	21	0.2488	0.076	4.762	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-14A	0.05	0.04	4	No	21	0.04738	0.008657	66.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-15	0.8664	0.7707	4	No	21	0.8185	0.0867	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-16	0.15	0.058	4	No	21	0.1521	0.1838	9.524	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-17	0.1344	0.08396	4	No	21	0.1092	0.04573	4.762	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-19	0.3753	0.3247	4	No	21	0.35	0.04593	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-8	0.3423	0.2001	4	No	21	0.2712	0.1289	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-9	1.502	1.183	4	No	21	1.342	0.2886	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00021	0.015	No	18	0.0006617	0.0003936	55.56	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	18	0.0008644	0.0002679	77.78	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00045	0.015	No	18	0.000725	0.0002744	44.44	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00031	0.015	No	18	0.0007889	0.0003548	72.22	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.015	No	18	0.0009611	0.000165	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	18	0.0009039	0.0002797	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	18	0.0009183	0.0002387	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00016	0.015	No	18	0.0007628	0.0003937	72.22	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	18	0.0009522	0.0002027	94.44	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01439	0.007231	0.04	No	20	0.01141	0.007141	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	20	0.004465	0.001312	85	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.00777	0.006121	0.04	No	20	0.006785	0.001742	5	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0038	0.04	No	20	0.00445	0.001062	75	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-14A	0.005	0.0033	0.04	No	20	0.004155	0.001305	65	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-15	0.007217	0.005553	0.04	No	20	0.006385	0.001465	10	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01033	0.006625	0.04	No	20	0.00848	0.003266	5	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005656	0.004724	0.04	No	20	0.00519	0.0008207	5	None	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.0558	0.0477	0.04	Yes	20	0.05175	0.007129	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.017	0.013	0.04	No	20	0.01703	0.01007	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03808	0.03257	0.04	No	20	0.03533	0.004846	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	20	0.01359	0.004334	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	20	0.01364	0.004187	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.00095	0.1	No	20	0.01092	0.006442	70	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0016	0.1	No	20	0.004051	0.004795	15	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	20	0.0143	0.00313	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.006568	0.003266	0.1	No	20	0.005195	0.003435	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.005288	0.002606	0.1	No	20	0.004176	0.002528	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.1	No	20	0.006085	0.006713	35	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.006065	0.003563	0.1	No	20	0.005266	0.003413	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	20	0.004765	0.001049	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	20	0.004774	0.001008	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	20	0.004855	0.0006485	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	20	0.004765	0.001051	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	20	0.004775	0.001006	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01076	0.005502	0.05	No	20	0.008133	0.004632	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	20	0.004768	0.001038	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.003879	0.003149	0.05	No	20	0.003514	0.0006431	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-9	0.002822	0.002226	0.05	No	20	0.002524	0.0005245	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	20	0.0009543	0.0002046	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	20	0.000958	0.0001878	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00014	0.002	No	20	0.0005385	0.0004292	45	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00017	0.002	No	20	0.000503	0.0004179	40	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	20	0.000959	0.0001834	95	None	No	0.01	NP (NDs)



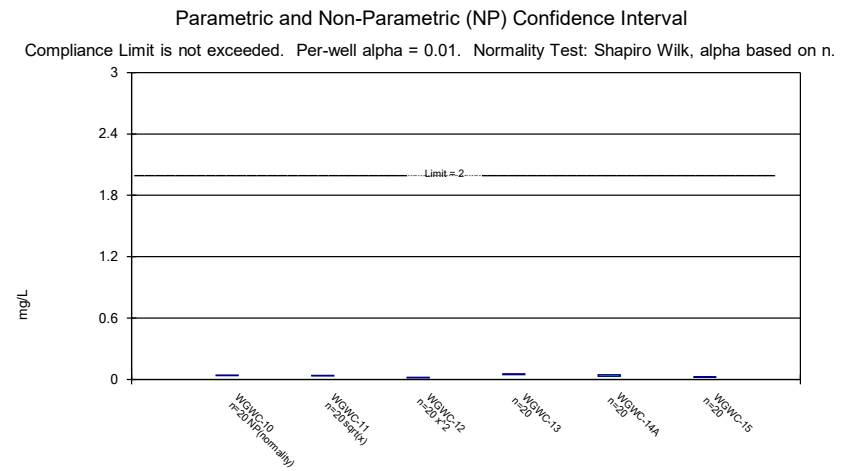
Constituent: Antimony Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Arsenic Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



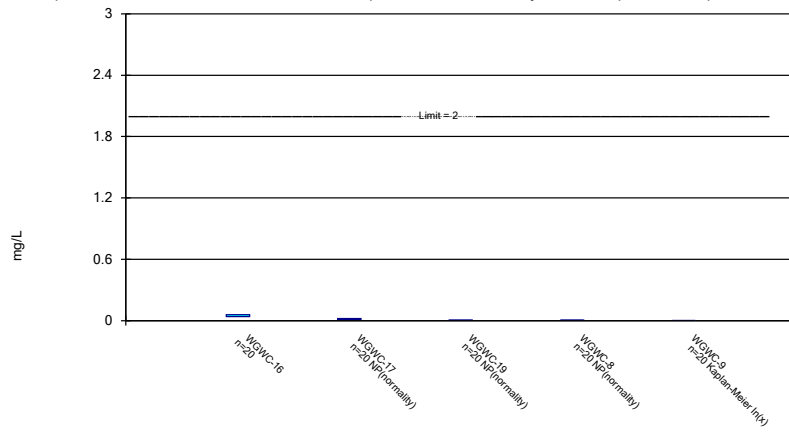
Constituent: Arsenic Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Barium Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

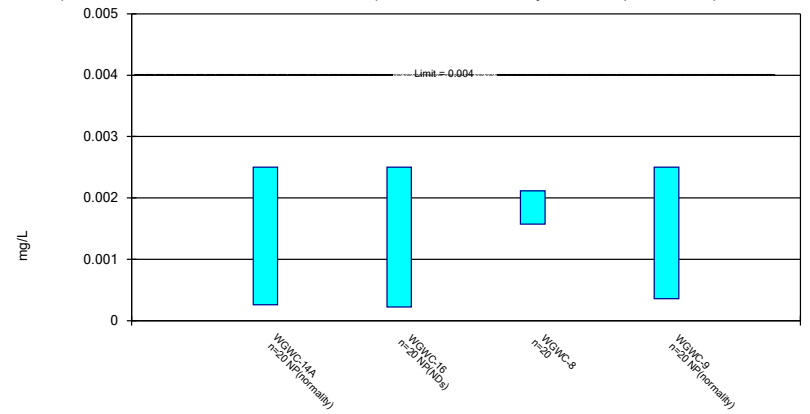
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

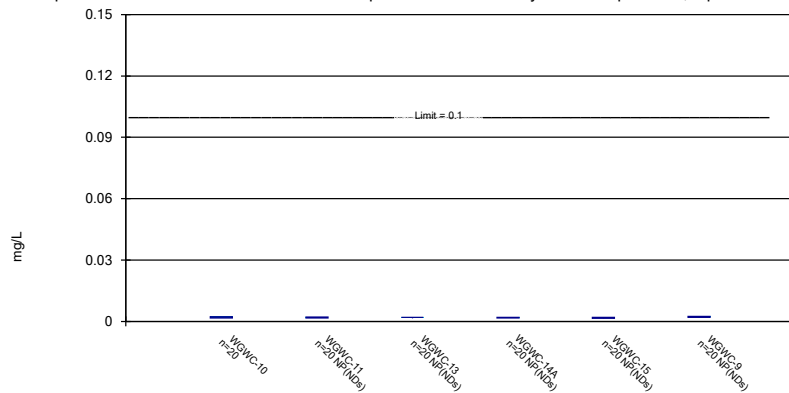
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

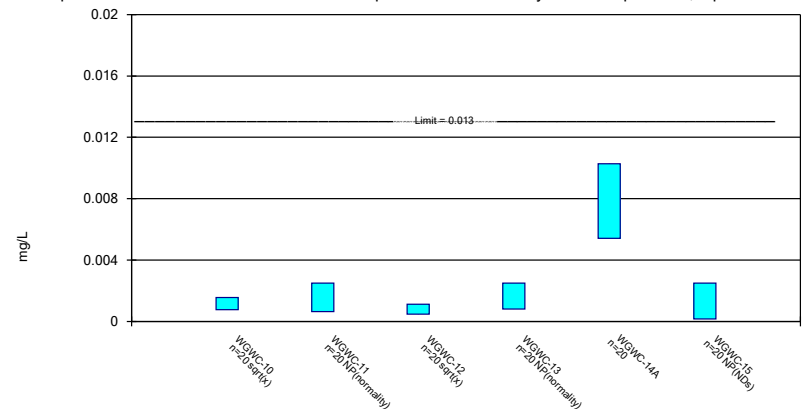
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

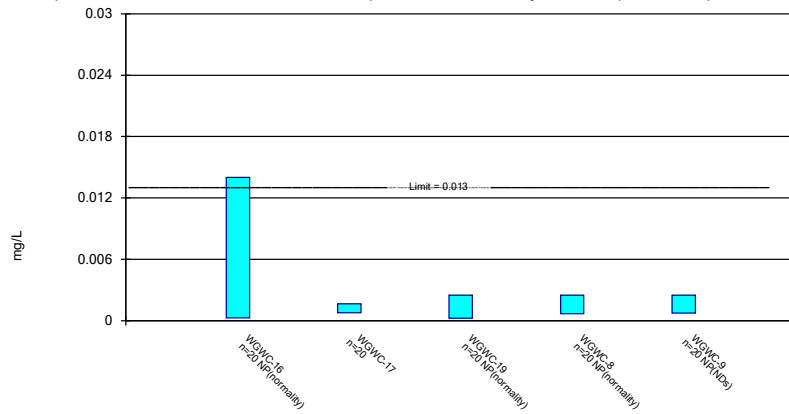
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

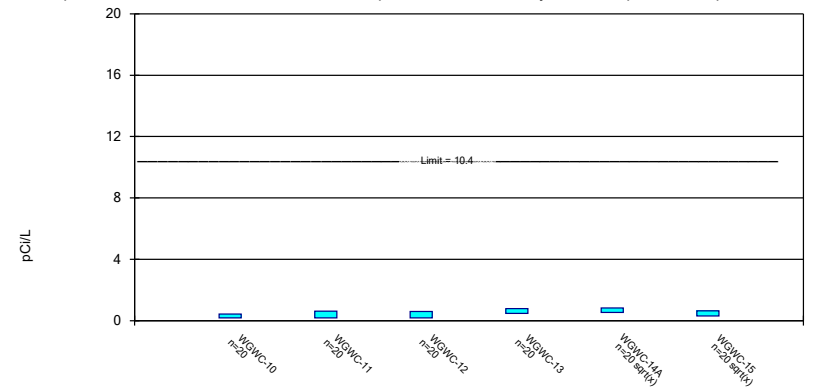
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

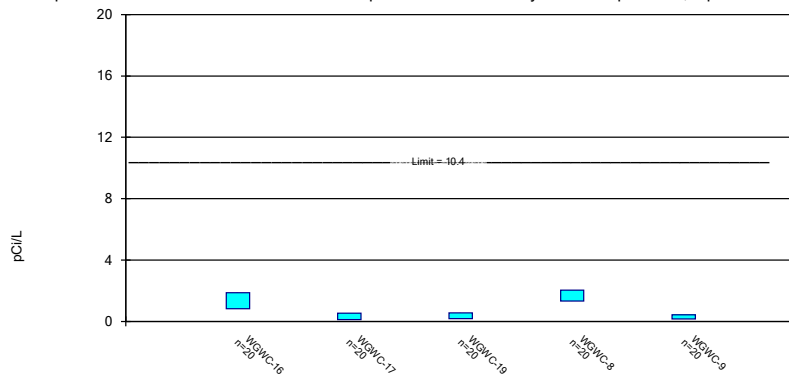
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

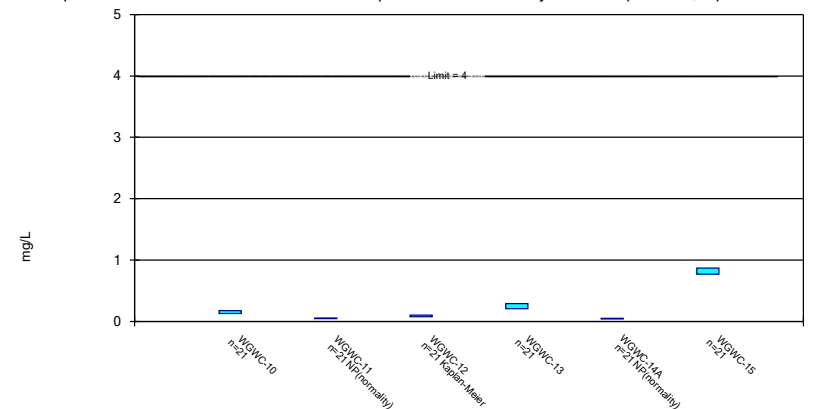
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

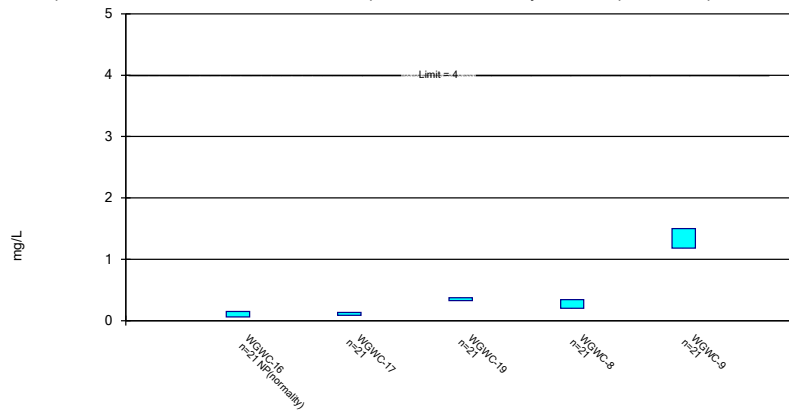
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

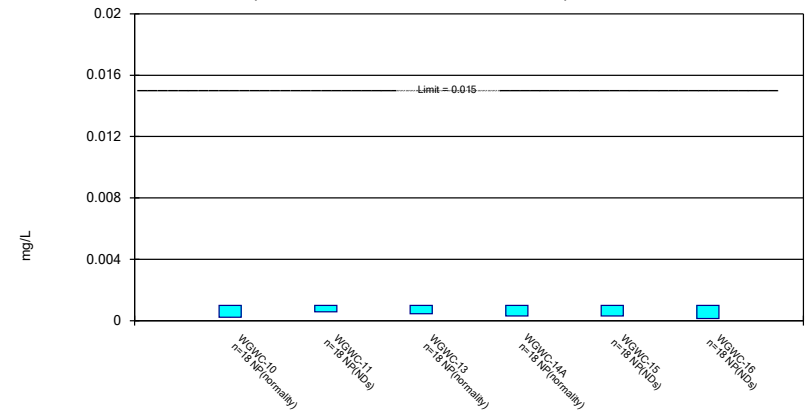
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

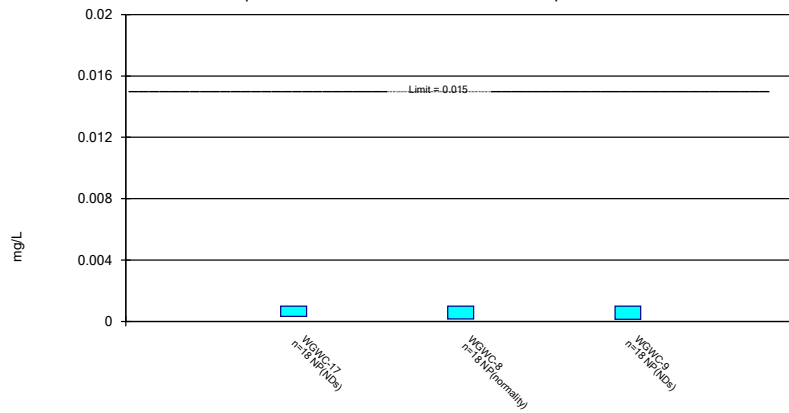
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

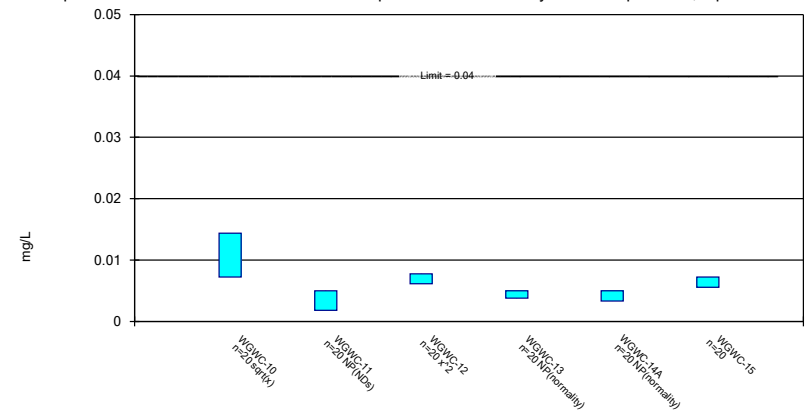
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

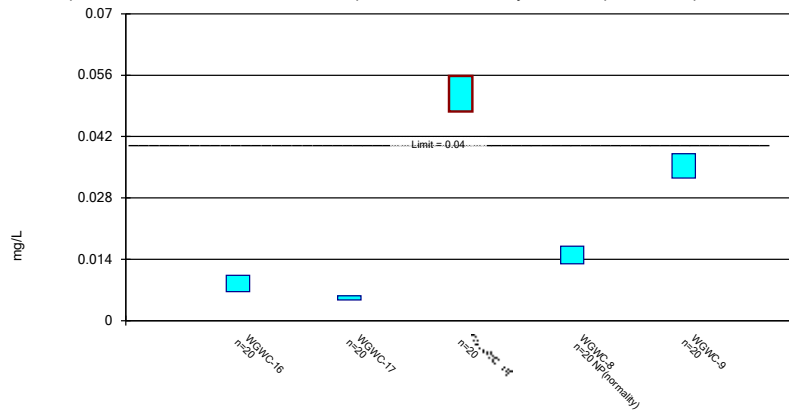
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

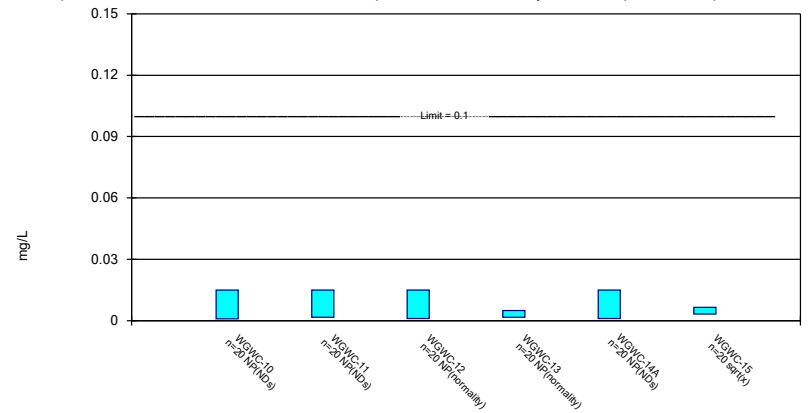
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

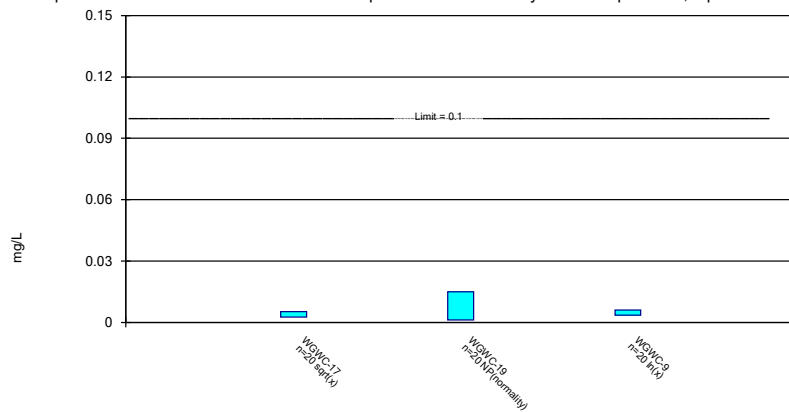
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

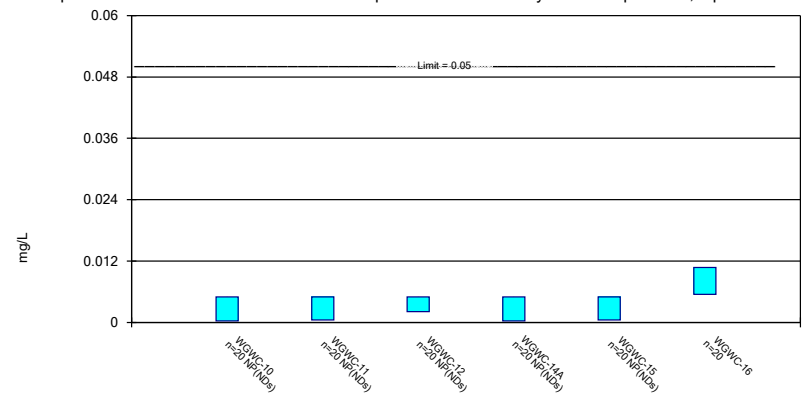
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

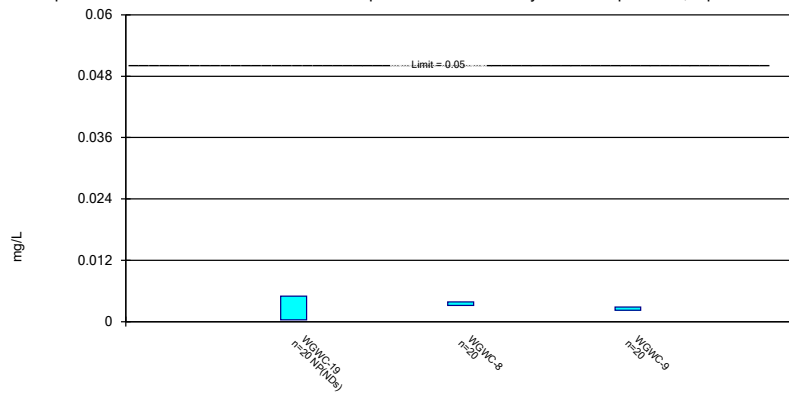
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

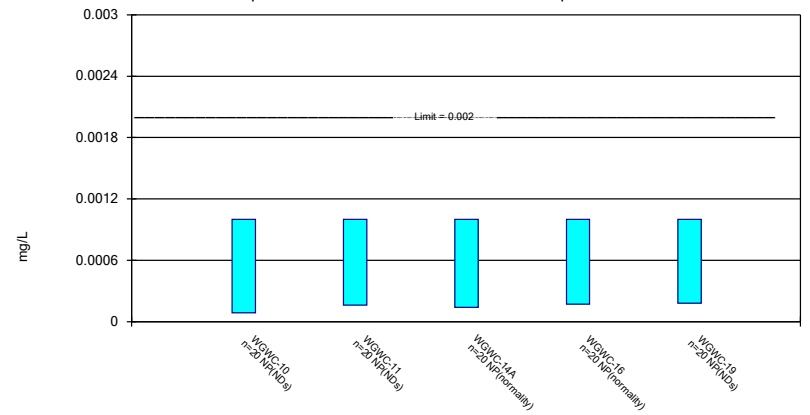
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/18/2021 10:44 AM View: Confidence Intervals
 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 10/18/2021 10:44 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-9
5/19/2016	<0.002	<0.002
7/20/2016	<0.002	<0.002
9/14/2016	<0.002	<0.002
11/11/2016	<0.002	
1/27/2017	<0.002	
2/9/2017		<0.002
3/15/2017	<0.002	0.0011 (J)
4/11/2017		<0.002
4/26/2017	<0.002	<0.002
8/10/2017	0.0023 (J)	<0.002
3/29/2018	<0.002	<0.002
2/27/2019	<0.002	
2/28/2019		<0.002
2/5/2020	<0.002	<0.002
3/18/2020	<0.002	
3/19/2020		0.00041 (J)
2/3/2021	<0.002	
2/4/2021		0.00041 (J)
3/12/2021	<0.002	<0.002
8/25/2021	<0.002	
8/26/2021		<0.002
Mean	0.00202	0.001728
Std. Dev.	7.746E-05	0.0005829
Upper Lim.	0.0023	0.002
Lower Lim.	0.002	0.0011

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001					0.00345
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						0.0031
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	<0.001		0.0024
11/10/2016				<0.001		0.0023
11/11/2016	<0.001	<0.001	<0.001			
1/24/2017						0.0019
1/27/2017		0.00047 (J)	<0.001	0.00066 (J)		
2/6/2017	<0.001					
2/8/2017					<0.001	
2/23/2017					<0.001	
3/14/2017						0.0016
3/15/2017	<0.001	<0.001	<0.001	<0.001		
3/17/2017					0.0006 (J)	
4/11/2017					0.0032	
4/25/2017						0.0019
4/26/2017	<0.001	<0.001	<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
8/10/2017	<0.001	<0.001	0.00048 (J)			
3/29/2018		<0.001	<0.001	0.00067 (J)	<0.001	
3/30/2018	<0.001					0.0018
6/14/2018	0.0005 (J)	<0.001	0.00052 (J)	0.00093 (J)	<0.001	0.002
10/3/2018						0.0024
10/4/2018	0.00089 (J)	0.00054 (J)	<0.001	0.0015	0.0017	
2/27/2019	<0.001	<0.001	<0.001	0.00036 (J)	<0.001	0.0015
4/3/2019		<0.001	<0.001	0.00053 (J)	<0.001	
4/4/2019	<0.001					0.0019
9/18/2019				0.00039 (J)	<0.001	0.0016
9/19/2019	0.00038 (J)	<0.001	<0.001			
2/5/2020	0.00035 (J)	<0.001	<0.001	0.00048 (J)	<0.001	
2/7/2020						0.001
3/18/2020	<0.001	<0.001	<0.001			0.00088 (J)
3/19/2020				0.00039 (J)	<0.001	
9/23/2020	<0.001		<0.001			0.00061 (J)
9/24/2020		0.00051 (J)		<0.001	<0.001	
2/3/2021		<0.001	<0.001			
2/4/2021	<0.001			0.00038 (J)	<0.001	0.00069 (J)
3/11/2021	0.00031 (J)			0.00035 (J)	<0.001	
3/12/2021		<0.001	<0.001			0.00084 (J)
8/25/2021		<0.001	<0.001	<0.001	<0.001	
8/26/2021	<0.001					0.0012
Mean	0.0008715	0.000926	0.00095	0.000782	0.001243	0.001739
Std. Dev.	0.0002529	0.0001811	0.000154	0.0003229	0.0005847	0.00076
Upper Lim.	0.001	0.001	0.001	0.001	0.0014	0.00217
Lower Lim.	0.00089	0.00054	0.00052	0.00039	0.00095	0.001307

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-8	WGWC-9
5/18/2016	<0.001	<0.001		
5/19/2016			<0.001	<0.001
7/19/2016	0.0009 (J)			
7/20/2016		0.00058 (J)	0.00055 (J)	0.00078 (J)
9/14/2016	0.0014	<0.001		<0.001
9/15/2016			<0.001	
11/10/2016	0.0021	0.00082 (J)		
11/14/2016			<0.001	
1/20/2017		<0.001		
1/24/2017	0.0015			
2/6/2017			<0.001	
2/9/2017				0.0017
3/14/2017		<0.001		
3/15/2017	0.0014		<0.001	0.00047 (J)
4/11/2017				<0.001
4/25/2017	0.0014	0.00095 (J)		
4/26/2017			<0.001	<0.001
8/9/2017	0.0013	<0.001		
8/10/2017			<0.001	<0.001
3/29/2018	0.0014		<0.001	<0.001
3/30/2018		<0.001		
6/14/2018	<0.001	0.00076 (J)	<0.001	<0.001
10/4/2018	0.0013	0.00088 (J)	0.0015	<0.001
2/26/2019		0.0005 (J)		
2/27/2019	0.00046 (J)		0.00047 (J)	
2/28/2019				<0.001
4/3/2019			<0.001	<0.001
4/4/2019	<0.001	<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	<0.001	0.00075 (J)	0.0011	
3/18/2020	<0.001	0.00054 (J)		
3/19/2020			0.00071 (J)	<0.001
9/22/2020			0.0011	
9/23/2020	<0.001	0.00067 (J)		<0.001
2/3/2021			0.0013	
2/4/2021	<0.001	0.00035 (J)		<0.001
3/11/2021	<0.001	<0.001	0.0009 (J)	
3/12/2021				<0.001
8/25/2021	<0.001	<0.001		
8/26/2021			0.0013	<0.001
Mean	0.001158	0.00084	0.0009625	0.0009975
Std. Dev.	0.0003311	0.0002086	0.0002774	0.0002076
Upper Lim.	0.0014	0.001	0.0008798	0.0017
Lower Lim.	0.001	0.00067	0.0005162	0.00078

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.0391					0.0206
5/19/2016		0.031	0.0214	0.055		
7/19/2016						0.019
7/20/2016	0.028	0.029	0.019	0.039		
9/14/2016	0.035	0.031	0.02	0.04		0.02
11/10/2016				0.04		0.02
11/11/2016	0.042	0.034	0.022			
1/24/2017						0.017
1/27/2017		0.042	0.023	0.042		
2/6/2017	0.041					
2/8/2017					0.037	
2/23/2017					0.051	
3/14/2017						0.018
3/15/2017	0.04	0.032	0.024	0.058		
3/17/2017					0.046	
4/11/2017					0.055	
4/25/2017						0.018
4/26/2017	0.039	0.03	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
8/10/2017	0.038	0.03	0.017			
3/29/2018		0.028	0.017	0.061	0.028	
3/30/2018	0.042					0.021
6/14/2018	0.038	0.03	0.015	0.055	0.023	0.022
10/3/2018						0.024
10/4/2018	0.04	0.035	0.017	0.046	0.036	
2/27/2019	0.04	0.04	0.016	0.054	0.028	0.023
4/3/2019		0.035	0.015	0.056	0.026	
4/4/2019	0.04					0.022
9/18/2019				0.062	0.025	0.026
9/19/2019	0.038	0.033	0.016			
2/5/2020	0.061	0.047	0.016	0.052	0.077	
2/7/2020						0.022
3/18/2020	0.035	0.038	0.016			0.021
3/19/2020				0.072	0.031	
9/23/2020	0.035		0.016			0.027
9/24/2020		0.061		0.038	0.034	
2/3/2021		0.039	0.015			
2/4/2021	0.035			0.047	0.029	0.028
3/11/2021	0.033			0.049	0.032	
3/12/2021		0.045	0.017			0.028
8/25/2021		0.04	0.016	0.046	0.03	
8/26/2021	0.032					0.029
Mean	0.03856	0.0365	0.01712	0.05105	0.039	0.02228
Std. Dev.	0.006403	0.007964	0.004162	0.008912	0.01397	0.003608
Upper Lim.	0.041	0.0405	0.01954	0.05611	0.04693	0.02433
Lower Lim.	0.035	0.03202	0.0154	0.04599	0.03107	0.02023

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.0715	0.0219			
5/19/2016				0.0026	<0.01
7/19/2016	0.069				
7/20/2016		0.019		0.0017 (J)	0.0014 (J)
9/14/2016	0.066	0.017			0.00092 (J)
9/15/2016				0.0039	
11/10/2016	0.069	0.02			
11/11/2016			0.0022 (J)		
11/14/2016				0.00085 (J)	
1/20/2017		0.018			
1/24/2017	0.068				
2/6/2017			0.0018 (J)	0.0011 (J)	
2/9/2017					0.0015 (J)
3/14/2017		0.019			
3/15/2017	0.065		0.0015 (J)	0.0013 (J)	0.00054 (J)
4/11/2017			0.0014 (J)		0.0007 (J)
4/25/2017	0.057	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	0.069	0.017			
8/10/2017			0.0012 (J)	0.0025	0.00053 (J)
3/29/2018	0.05		0.00097 (J)	0.00085 (J)	<0.01
3/30/2018		0.015			
6/14/2018	0.046	0.013	0.0011 (J)	0.0028	0.00088 (J)
10/4/2018	0.046	0.013	0.0012 (J)	0.0017 (J)	0.00076 (J)
2/26/2019		0.012			
2/27/2019	0.028			<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	0.027	0.011			
9/18/2019	0.032	0.011	<0.01		
9/19/2019				<0.01	0.0018 (J)
2/5/2020					0.0022 (J)
2/7/2020	0.034	0.011	0.0065 (J)	<0.01	
3/18/2020	0.034	0.012			
3/19/2020				<0.01	0.0021 (J)
5/4/2020			<0.01		
9/22/2020				<0.01	
9/23/2020	0.037	0.012	<0.01		<0.01
2/3/2021			<0.01	<0.01	
2/4/2021	0.039	0.012			0.0016 (J)
3/11/2021	0.037	0.011	<0.01	<0.01	
3/12/2021					<0.01
8/25/2021	0.035	0.011			
8/26/2021			<0.01	<0.01	<0.01
Mean	0.04898	0.01495	0.002913	0.003064	0.002611
Std. Dev.	0.01613	0.004036	0.001948	0.001783	0.00187
Upper Lim.	0.05813	0.019	0.005	0.005	0.001567
Lower Lim.	0.03982	0.011	0.0013	0.0011	0.0008775

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-16	WGWC-8	WGWC-9
5/18/2016		<0.0025		
5/19/2016			0.00102 (J)	<0.0025
7/19/2016		<0.0025		
7/20/2016			0.0014 (J)	<0.0025
9/14/2016		<0.0025		<0.0025
9/15/2016			0.00093 (J)	
11/10/2016		<0.0025		
11/14/2016			0.0014 (J)	
1/24/2017		<0.0025		
2/6/2017			0.0017 (J)	
2/8/2017	<0.0025			
2/9/2017				0.00041 (J)
2/23/2017	<0.0025			
3/15/2017		<0.0025	0.0016 (J)	<0.0025
3/17/2017	<0.0025			
4/11/2017	<0.0025			<0.0025
4/25/2017		<0.0025		
4/26/2017	<0.0025		0.0017 (J)	<0.0025
5/17/2017	<0.0025			
6/7/2017	<0.0025			
7/11/2017	<0.0025			
8/9/2017		<0.0025		
8/10/2017			0.0017 (J)	0.00034 (J)
3/29/2018	<0.0025	<0.0025	0.0018 (J)	<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)
2/27/2019	0.00017 (J)	0.00022 (J)	0.0021 (J)	
2/28/2019				0.00031 (J)
4/3/2019	<0.0025		0.0019 (J)	<0.0025
4/4/2019		<0.0025		
9/18/2019	0.00032 (J)	<0.0025		
9/19/2019			0.0019	0.00041 (J)
2/5/2020	0.00024 (J)			0.0004 (J)
2/7/2020		<0.0025	0.0023	
3/18/2020		<0.0025		
3/19/2020	0.00025 (J)		0.0028	0.00056 (J)
9/22/2020			0.0025	
9/23/2020		<0.0025		0.00034 (J)
9/24/2020	0.00024 (J)			
2/3/2021			0.0025	
2/4/2021	0.00026 (J)	<0.0025		0.00039 (J)
3/11/2021	<0.0025	<0.0025	0.0022 (J)	
3/12/2021				0.00034 (J)
8/25/2021	<0.0025	<0.0025		
8/26/2021			0.002 (J)	0.00038 (J)
Mean	0.001824	0.002386	0.001843	0.001337
Std. Dev.	0.00106	0.0005098	0.000479	0.00108
Upper Lim.	0.0025	0.0025	0.002114	0.0025
Lower Lim.	0.00026	0.00022	0.001571	0.00036

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-13	WGWC-14A	WGWC-15	WGWC-9
5/18/2016	<0.002				<0.002	
5/19/2016		<0.002	<0.002			<0.002
7/19/2016					<0.002	
7/20/2016	0.0012 (J)	<0.002	<0.002			<0.002
9/14/2016	<0.002	<0.002	<0.002		<0.002	<0.002
11/10/2016			<0.002		<0.002	
11/11/2016	0.0015 (J)	<0.002				
1/24/2017					<0.002	
1/27/2017		<0.002	<0.002			
2/6/2017	0.0011 (J)					
2/8/2017				<0.002		
2/9/2017						<0.002
2/23/2017				<0.002		
3/14/2017					<0.002	
3/15/2017	0.0015 (J)	<0.002	<0.002			<0.002
3/17/2017				<0.002		
4/11/2017				<0.002		<0.002
4/25/2017					<0.002	
4/26/2017	0.0013 (J)	0.0011 (J)	<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	
8/10/2017	0.0016 (J)	<0.002				<0.002
3/29/2018		0.0012 (J)	<0.002	<0.002		<0.002
3/30/2018	0.0027				<0.002	
6/14/2018	0.0023 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
10/3/2018					<0.002	
10/4/2018	0.0031	<0.002	<0.002	<0.002		<0.002
2/27/2019	0.0031	0.0021 (J)	0.0018 (J)	<0.002	0.0015 (J)	
2/28/2019						0.0025
4/3/2019		<0.002	<0.002	<0.002		<0.002
4/4/2019	0.0021 (J)				<0.002	
9/18/2019			<0.002	<0.002	<0.002	
9/19/2019	0.0022	<0.002				<0.002
2/5/2020	0.0022	<0.002	<0.002	0.0017 (J)		<0.002
2/7/2020					<0.002	
3/18/2020	<0.002	<0.002			<0.002	
3/19/2020			<0.002	<0.002		<0.002
9/23/2020	0.0018 (J)				<0.002	<0.002
9/24/2020		<0.002	<0.002	<0.002		
2/3/2021		<0.002				
2/4/2021	0.0018 (J)		<0.002	<0.002	<0.002	<0.002
3/11/2021	0.0023		0.0019 (J)	<0.002		
3/12/2021		0.0017 (J)			<0.002	<0.002
8/25/2021		<0.002	0.0017 (J)	<0.002		
8/26/2021	0.0024				<0.002	<0.002
Mean	0.00201	0.001905	0.00197	0.001985	0.001975	0.002025
Std. Dev.	0.0005628	0.0002685	8.013E-05	6.708E-05	0.0001118	0.0001118
Upper Lim.	0.00233	0.0021	0.002	0.002	0.002	0.0025
Lower Lim.	0.00169	0.0017	0.0019	0.0017	0.0015	0.002

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.00201 (J)					<0.0025
5/19/2016		<0.0025	<0.0025	<0.0025		
7/19/2016						<0.0025
7/20/2016	0.00066 (J)	0.0025	0.0013 (J)	<0.0025		
9/14/2016	0.00095 (J)	<0.0025	0.00098 (J)	<0.0025		<0.0025
11/10/2016				<0.0025		<0.0025
11/11/2016	0.001 (J)	0.00052 (J)	0.0017 (J)			
1/24/2017						<0.0025
1/27/2017		0.00049 (J)	0.0022 (J)	<0.0025		
2/6/2017	0.00072 (J)					
2/8/2017					0.0051	
2/23/2017					0.014	
3/14/2017						<0.0025
3/15/2017	0.00062 (J)	0.00064 (J)	0.0016 (J)	<0.0025		
3/17/2017					0.013	
4/11/2017					0.016	
4/25/2017						<0.0025
4/26/2017	0.0014 (J)	0.001 (J)	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
8/10/2017	<0.0025	0.0011 (J)	0.00049 (J)			
3/29/2018		<0.0025	0.0008 (J)	0.0008 (J)	0.015	
3/30/2018	0.0035					<0.0025
6/14/2018	0.0012 (J)	<0.0025	0.00067 (J)	0.00054 (J)	0.011	<0.0025
10/3/2018						<0.0025
10/4/2018	0.00086 (J)	<0.0025	0.00079 (J)	<0.0025	0.0055	
2/27/2019	0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049	<0.0025
4/3/2019		0.00081 (J)	0.00043 (J)	<0.0025	0.0056	
4/4/2019	0.0017 (J)					<0.0025
9/18/2019				<0.0025	0.005	<0.0025
9/19/2019	0.0023	<0.0025	0.00028 (J)			
2/5/2020	0.0013	0.00026 (J)	0.00058	<0.0025	0.0044	
2/7/2020						<0.0025
3/18/2020	0.0012 (J)	0.00069 (J)	0.00071 (J)			<0.0025
3/19/2020				<0.0025	0.0039	
9/23/2020	0.00062 (J)		0.00039 (J)			<0.0025
9/24/2020		<0.0025		0.00032 (J)	0.0035	
2/3/2021		0.00072 (J)	0.00017 (J)			
2/4/2021	0.00059 (J)			<0.0025	0.0041	0.00015 (J)
3/11/2021	0.00058 (J)			<0.0025	0.0037	
3/12/2021		0.0022 (J)	0.00042 (J)			<0.0025
8/25/2021		0.00045 (J)	0.0005 (J)	<0.0025	0.0029	
8/26/2021	0.00044 (J)					<0.0025
Mean	0.001232	0.001554	0.0008685	0.001984	0.007855	0.002382
Std. Dev.	0.0008066	0.00093	0.0006568	0.0009233	0.004283	0.0005255
Upper Lim.	0.001563	0.0025	0.001126	0.0025	0.01029	0.0025
Lower Lim.	0.0007636	0.00064	0.000479	0.0008	0.005423	0.00015

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.0069	0.00245 (J)			
5/19/2016				<0.0025	<0.0025
7/19/2016	0.012				
7/20/2016		0.0018 (J)		<0.0025	<0.0025
9/14/2016	0.013	0.0014 (J)			<0.0025
9/15/2016				<0.0025	
11/10/2016	0.016	0.0016 (J)			
11/11/2016			<0.0025		
11/14/2016				<0.0025	
1/20/2017		0.0014 (J)			
1/24/2017	0.015				
2/6/2017			0.00058 (J)	<0.0025	
2/9/2017					0.00073 (J)
3/14/2017		0.0023 (J)			
3/15/2017	0.014		0.00045 (J)	<0.0025	<0.0025
4/11/2017			<0.0025		<0.0025
4/25/2017	0.014	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	0.016	0.0011 (J)			
8/10/2017			0.00049 (J)	<0.0025	<0.0025
3/29/2018	0.0092		<0.0025	0.00066 (J)	<0.0025
3/30/2018		0.0016 (J)			
6/14/2018	0.0035	0.00055 (J)	<0.0025	0.0011 (J)	<0.0025
10/4/2018	0.0078	0.00041 (J)	<0.0025	<0.0025	<0.0025
2/26/2019		0.00086 (J)			
2/27/2019	0.00084 (J)			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	0.00077 (J)	<0.0025			
9/18/2019	0.00011 (J)	0.00018 (J)	0.00045 (J)		
9/19/2019				0.0028	<0.0025
2/5/2020					<0.0025
2/7/2020	0.00016 (J)	0.00077	0.00024 (J)	0.0011	
3/18/2020	0.00016 (J)	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	<0.0025	0.0009 (J)	0.00024 (J)		<0.0025
2/3/2021			0.00025 (J)	0.00014 (J)	
2/4/2021	0.00026 (J)	0.00042 (J)			<0.0025
3/11/2021	0.00013 (J)	0.00035 (J)	0.00022 (J)	0.00043 (J)	
3/12/2021					<0.0025
8/25/2021	<0.0025	0.00042 (J)			
8/26/2021			0.00022 (J)	0.0005 (J)	<0.0025
Mean	0.006741	0.001191	0.0013	0.00182	0.002411
Std. Dev.	0.006293	0.0007719	0.001118	0.001019	0.0003958
Upper Lim.	0.014	0.00163	0.0025	0.0025	0.0025
Lower Lim.	0.00026	0.0007532	0.00024	0.00066	0.00073

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.182 (U)					0.569
5/19/2016		0.431 (U)	0.0698 (U)	0.219 (U)		
7/19/2016						0.29 (U)
7/20/2016	-0.135 (U)	-0.263 (U)	-0.0646 (U)	0.404 (U)		
9/14/2016	0.311 (U)	0.13 (U)	0.199 (U)	0.692		0.412 (U)
11/10/2016				1		0.709
11/11/2016	0.542	0.0257 (U)	0.467			
1/24/2017						0.779
1/27/2017		0.898	0.836	0.668		
2/6/2017	0.104 (U)					
2/8/2017					0.958	
2/23/2017					0.771	
3/14/2017						0.247 (U)
3/15/2017	0.523	0.121 (U)	0.254 (U)	0.847		
3/17/2017					1.7	
4/11/2017					0.901	
4/25/2017						0.515
4/26/2017	0.069 (U)	0.0309 (U)	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
8/10/2017	0.189 (U)	0.326 (U)	0.912			
3/29/2018		0.461	0.419	0.51	0.58	
3/30/2018	0.575					0.0985 (U)
6/14/2018	0.523	0.275 (U)	-0.263 (U)	0.463	0.55	0.171 (U)
10/3/2018						0.766
10/4/2018	0.84	1.18	1.29	0.99	0.563	
2/27/2019	0.236 (U)	0.374	0.415	1.08	0.538	0.363 (U)
4/3/2019		0.187 (U)	0.264 (U)	0.446	0.497	
4/4/2019	0.233 (U)					0.418
9/18/2019				0.392	0.376 (U)	0.484
9/19/2019	0.124 (U)	0.338 (U)	0.329 (U)			
2/5/2020	0.0961 (U)	0.163 (U)	0.225 (U)	0.609	0.5	
2/7/2020						0.125 (U)
3/18/2020	0.461 (U)	0.866	-0.0262 (U)			0.303 (U)
3/19/2020				0.47	0.376 (U)	
9/23/2020	0.442 (U)		0.785			0.448 (U)
9/24/2020		1.2		1.02	0.796	
2/3/2021		0.718	0.322 (U)			
2/4/2021	0.0332 (U)			0.139 (U)	0.564	0.488 (U)
3/11/2021	0.42 (U)			0.473	0.764	
3/12/2021		0.0729 (U)	0.633			0.591
8/25/2021		0.401	0.443 (U)	0.913	0.705	
8/26/2021	0.321 (U)					0.678
Mean	0.3045	0.3968	0.3888	0.628	0.6991	0.5077
Std. Dev.	0.2346	0.392	0.3654	0.2793	0.3011	0.3456
Upper Lim.	0.4377	0.6194	0.5963	0.7865	0.8335	0.6472
Lower Lim.	0.1713	0.1742	0.1813	0.4694	0.5318	0.3074

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	1.03	0.116 (U)			
5/19/2016				0.711 (U)	0.209 (U)
7/19/2016	2.39				
7/20/2016		0.247 (U)		1.14	-0.084 (U)
9/14/2016	3.05	0.594			0.42 (U)
9/15/2016				1.26	
11/10/2016	2.87	0.431			
11/11/2016			-0.11 (U)		
11/14/2016				0.749	
1/20/2017		1.35			
1/24/2017	2.68				
2/6/2017			0.471	1.05	
2/9/2017					0.393
3/14/2017		-0.107 (U)			
3/15/2017	1.64		0.255 (U)	1.32	0.271 (U)
4/11/2017			0.19 (U)		0.488 (U)
4/25/2017	0.878	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	2.5	-0.0246 (U)			
8/10/2017			0.882	1.88	0.379
3/29/2018	1.6		0.252 (U)	2.31	0.278 (U)
3/30/2018		0.135 (U)			
6/14/2018	1.09	-0.373 (U)	0.0458 (U)	1.86	0.157 (U)
10/4/2018	1.99	0.775	0.381	2.44	0.48
2/26/2019		0.431			
2/27/2019	0.721			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	0.632	0.386			
9/18/2019	0.278 (U)	0.167 (U)	0.403 (U)		
9/19/2019				2.06	0.537
2/5/2020					-0.137 (U)
2/7/2020	0.797	0.244 (U)	0.2 (U)	1.66	
3/18/2020	0.437	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	0.276 (U)	0.643	1.18		0.0587 (U)
2/3/2021			0.684	2	
2/4/2021	0.727	0.438 (U)			0.353 (U)
3/11/2021	0.942	0.247 (U)	0.286 (U)	2.38	
3/12/2021					0.831
8/25/2021	0.518	0.565			
8/26/2021			0.796	2.87	0.681
Mean	1.352	0.3279	0.3653	1.685	0.3009
Std. Dev.	0.9154	0.3641	0.3139	0.614	0.2404
Upper Lim.	1.872	0.5347	0.5435	2.033	0.4374
Lower Lim.	0.8325	0.1211	0.187	1.336	0.1644

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.206					0.779
5/19/2016		0.039 (J)	0.12 (J)	0.384		
7/19/2016						0.97
7/20/2016	0.23	<0.1	0.11 (J)	0.34		
9/14/2016	0.17 (J)	<0.1	0.095 (J)	0.31		0.89
11/10/2016				0.26		0.88
11/11/2016	0.14 (J)	<0.1	<0.1			
1/24/2017						0.92
1/27/2017		<0.1	<0.1	0.28		
2/6/2017	0.15 (J)					
2/8/2017					<0.1	
2/23/2017					<0.1	
3/14/2017						0.77
3/15/2017	0.16 (J)	<0.1	<0.1	0.3		
3/17/2017					<0.1	
4/11/2017					<0.1	
4/25/2017						0.95
4/26/2017	0.17 (J)	<0.1	<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
8/10/2017	0.2	<0.1	0.11 (J)			
10/11/2017					<0.1	0.88
10/12/2017	0.14 (J)	<0.1	0.091 (J)	0.28		
3/29/2018		<0.1	0.089 (J)	0.27	<0.1	
3/30/2018	0.13 (J)					0.79
6/14/2018	0.15 (J)	<0.1	0.1 (J)	0.27	<0.1	0.79
10/3/2018						0.79
10/4/2018	0.18 (J)	<0.1	0.12 (J)	0.23	<0.1	
2/27/2019	0.21	0.047 (J)	0.06 (J)	0.25	<0.1	0.81
4/3/2019		0.048 (J)	0.084 (J)	0.24	0.048 (J)	
4/4/2019	0.13 (J)					0.78
9/18/2019				0.22	0.035 (J)	0.81
9/19/2019	0.13 (J)	0.037 (J)	0.093 (J)			
2/5/2020	0.14	0.045 (J)	0.098 (J)	0.2	0.04 (J)	
2/7/2020						0.79
3/18/2020	0.052 (J)	<0.1	0.033 (J)			0.71
3/19/2020				0.15	<0.1	
9/23/2020	0.09 (J)		0.064 (J)			0.63
9/24/2020		0.18		<0.1	0.028 (J)	
2/3/2021		0.027 (J)	0.082 (J)			
2/4/2021	0.12			0.16	0.033 (J)	0.69
3/11/2021	0.15			0.18	0.04 (J)	
3/12/2021		0.044 (J)	0.096 (J)			0.88
8/25/2021		0.056 (J)	0.14	0.2	0.071 (J)	
8/26/2021	0.16					0.77
Mean	0.1528	0.05348	0.085	0.2488	0.04738	0.8185
Std. Dev.	0.04061	0.02964	0.0284	0.076	0.008657	0.0867
Upper Lim.	0.1752	0.056	0.1009	0.2907	0.05	0.8664
Lower Lim.	0.1304	0.045	0.07516	0.2068	0.04	0.7707

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.1 (J)	0.121 (J)			
5/19/2016				0.304	1.58
7/19/2016	0.14 (J)				
7/20/2016		0.16 (J)		0.27	2
9/14/2016	0.18 (J)	0.19 (J)			1.8
9/15/2016				0.24	
11/10/2016	0.11 (J)	0.15 (J)			
11/11/2016			0.32		
11/14/2016				0.2	
1/20/2017		0.18 (J)			
1/24/2017	0.15 (J)				
2/6/2017			0.45	0.27	
2/9/2017					1.3
3/14/2017		0.11 (J)			
3/15/2017	0.1 (J)		0.37	0.25	1.3
4/11/2017			0.37		1.4
4/25/2017	0.13 (J)	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	0.18 (J)	0.19 (J)			
8/10/2017			0.42	0.37	1.6
10/11/2017	<0.1	0.14 (J)			
10/12/2017			0.36	0.35	1.5
3/29/2018	0.13 (J)		0.34	0.36	1.4
3/30/2018		0.095 (J)			
6/14/2018	<0.1	0.11 (J)	0.35	0.56	1.4
10/4/2018	0.85 (J)	0.11 (J)	0.35	0.27	1.4
2/26/2019		0.068 (J)			
2/27/2019	0.47			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	0.08 (J)	0.087 (J)			
9/18/2019	0.058 (J)	0.066 (J)	0.32		
9/19/2019				0.42	1.3
2/5/2020					1.3
2/7/2020	0.072 (J)	0.079 (J)	0.35	0.25	
3/18/2020	0.084 (J)	<0.1			
3/19/2020				0.057 (J)	1
5/4/2020			0.36		
9/22/2020				0.14	
9/23/2020	0.049 (J)	0.05 (J)	0.25		0.82
2/3/2021			0.3	0.15	
2/4/2021	0.052 (J)	0.064 (J)			0.91
3/11/2021	0.061 (J)	0.05 (J)	0.31	0.16	
3/12/2021					0.98
8/25/2021	0.099 (J)	0.093 (J)			
8/26/2021			0.38	0.21	1
Mean	0.1521	0.1092	0.35	0.2712	1.342
Std. Dev.	0.1838	0.04573	0.04593	0.1289	0.2886
Upper Lim.	0.15	0.1344	0.3753	0.3423	1.502

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
Lower Lim.	0.058	0.08396	0.3247	0.2001	1.183

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	<0.001				<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	<0.001			
9/14/2016	<0.001	<0.001	0.00055 (J)		<0.001	<0.001
11/10/2016			0.00047 (J)		<0.001	<0.001
11/11/2016	<0.001	<0.001				
1/24/2017					<0.001	<0.001
1/27/2017		<0.001	<0.001			
2/6/2017	<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			<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	<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	<0.001				
3/29/2018		<0.001	<0.001	<0.001		<0.001
3/30/2018	<0.001				<0.001	
2/27/2019	0.00023 (J)	0.00058 (J)	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	<0.001
9/18/2019			0.00045 (J)	<0.001	<0.001	<0.001
9/19/2019	0.00041 (J)	<0.001				
2/5/2020	0.00016 (J)	<0.001	0.00045 (J)	<0.001		
2/7/2020					<0.001	<0.001
3/18/2020	0.00021 (J)	<0.001			<0.001	<0.001
3/19/2020			0.0006 (J)	0.00017 (J)		
9/23/2020	0.00013 (J)				<0.001	<0.001
9/24/2020		0.00037 (J)	<0.001	0.00018 (J)		
2/3/2021		<0.001				
2/4/2021	0.00019 (J)		0.00038 (J)	0.00013 (J)	0.0003 (J)	0.00013 (J)
3/11/2021	0.00032 (J)		0.00075 (J)	0.00031 (J)		<0.001
3/12/2021		0.00038 (J)			<0.001	
8/25/2021		0.00023 (J)	0.00025 (J)	0.00041 (J)		<0.001
8/26/2021	0.00026 (J)				<0.001	
Mean	0.0006617	0.0008644	0.000725	0.0007889	0.0009611	0.0009039
Std. Dev.	0.0003936	0.0002679	0.0002744	0.0003548	0.000165	0.0002797
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00021	0.00058	0.00045	0.00031	0.0003	0.00014

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	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		
11/14/2016		<0.001	
1/20/2017	<0.001		
2/6/2017		<0.001	
2/9/2017			<0.001
3/14/2017	<0.001		
3/15/2017		<0.001	<0.001
4/11/2017			<0.001
4/25/2017	<0.001		
4/26/2017		<0.001	<0.001
8/9/2017	<0.001		
8/10/2017		<0.001	<0.001
3/29/2018		<0.001	<0.001
3/30/2018	<0.001		
2/26/2019	0.00033 (J)		
2/27/2019		0.00017 (J)	
2/28/2019			0.00014 (J)
4/3/2019		<0.001	<0.001
4/4/2019	<0.001		
9/18/2019	<0.001		
9/19/2019		<0.001	<0.001
2/5/2020			<0.001
2/7/2020	<0.001	<0.001	
3/18/2020	0.0002 (J)		
3/19/2020		0.00016 (J)	<0.001
9/22/2020		0.00013 (J)	
9/23/2020	<0.001		<0.001
2/3/2021		0.00013 (J)	
2/4/2021	<0.001		<0.001
3/11/2021	<0.001	<0.001	
3/12/2021			<0.001
8/25/2021	<0.001		
8/26/2021		0.00014 (J)	<0.001
Mean	0.0009183	0.0007628	0.0009522
Std. Dev.	0.0002387	0.0003937	0.0002027
Upper Lim.	0.001	0.001	0.001
Lower Lim.	0.00033	0.00016	0.00014

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.032					<0.005
5/19/2016		<0.005	<0.005	<0.005		
7/19/2016						0.0036 (J)
7/20/2016	0.021	<0.005	0.0057	<0.005		
9/14/2016	0.02	<0.005	0.0077	<0.005		<0.005
11/10/2016				0.0038 (J)		0.0064
11/11/2016	0.017	<0.005	0.007			
1/24/2017						0.0075
1/27/2017		<0.005	0.0074	<0.005		
2/6/2017	0.016					
2/8/2017					0.0039 (J)	
2/23/2017					<0.005	
3/14/2017						0.0057
3/15/2017	0.014	<0.005	0.0077	<0.005		
3/17/2017					<0.005	
4/11/2017					<0.005	
4/25/2017						0.0059
4/26/2017	0.011	<0.005	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
8/10/2017	0.011	<0.005	0.0064			
3/29/2018		0.0018 (J)	0.01	0.0022 (J)	0.0025 (J)	
3/30/2018	0.016					0.0077
6/14/2018	0.0084	0.0011 (J)	0.0062	0.0018 (J)	0.0018 (J)	0.0052
10/3/2018						0.006
10/4/2018	0.0085	0.0014 (J)	0.0066	0.0025 (J)	0.0016 (J)	
2/27/2019	0.0068	<0.005	0.0068	<0.005	<0.005	0.0055
4/3/2019		<0.005	0.0075	<0.005	0.0015 (J)	
4/4/2019	0.0059					0.0054
9/18/2019				<0.005	<0.005	0.0054
9/19/2019	0.0075	<0.005	0.0067			
2/5/2020	0.0061	<0.005	0.0063	<0.005	<0.005	
2/7/2020						0.0068
3/18/2020	0.0071	<0.005	0.0081			0.0086
3/19/2020				<0.005	<0.005	
9/23/2020	0.0054		0.007			0.0071
9/24/2020		<0.005		<0.005	<0.005	
2/3/2021		<0.005	0.0075			
2/4/2021	0.0049 (J)			<0.005	<0.005	0.0086
3/11/2021	0.0051			0.0037 (J)	0.0035 (J)	
3/12/2021		<0.005	0.0089			0.0096
8/25/2021		<0.005	0.0061	<0.005	<0.005	
8/26/2021	0.0044 (J)					0.0059
Mean	0.01141	0.004465	0.006785	0.00445	0.004155	0.006385
Std. Dev.	0.007141	0.001312	0.001742	0.001062	0.001305	0.001465
Upper Lim.	0.01439	0.005	0.00777	0.005	0.005	0.007217
Lower Lim.	0.007231	0.0018	0.006121	0.0038	0.0033	0.005553

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.005	<0.005			
5/19/2016				0.0215	0.0335
7/19/2016	0.0091				
7/20/2016		0.0042 (J)		0.026	0.024
9/14/2016	0.012	0.0058			0.039
9/15/2016				0.057	
11/10/2016	0.013	0.0066			
11/11/2016			0.045		
11/14/2016				0.017	
1/20/2017		0.0044 (J)			
1/24/2017	0.011				
2/6/2017			0.05	0.012	
2/9/2017					0.04
3/14/2017		0.0048 (J)			
3/15/2017	0.01		0.052	0.014	0.035
4/11/2017			0.048		0.034
4/25/2017	0.0081	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	0.013	0.0067			
8/10/2017			0.056	0.013	0.038
3/29/2018	0.015		0.072	0.018	0.048
3/30/2018		0.0067			
6/14/2018	0.009	0.0046 (J)	0.048	0.015	0.034
10/4/2018	0.012	0.005	0.062	0.013	0.039
2/26/2019		0.0063			
2/27/2019	0.0075			0.014	
2/28/2019			0.045		0.037
4/2/2019			0.052		
4/3/2019				0.015	0.035
4/4/2019	0.0077	0.0042 (J)			
9/18/2019	0.0056	0.0047 (J)	0.052		
9/19/2019				0.014	0.036
2/5/2020					0.034
2/7/2020	0.0053	0.0045 (J)	0.044	0.014	
3/18/2020	0.0057	0.0054			
3/19/2020				0.015	0.039
5/4/2020			0.049		
9/22/2020				0.013	
9/23/2020	0.0059	0.0056	0.056		0.033
2/3/2021			0.06	0.014	
2/4/2021	0.0051	0.0047 (J)			0.035
3/11/2021	0.005	0.0049 (J)	0.051	0.013	
3/12/2021					0.034
8/25/2021	0.0046 (J)	0.0048 (J)			
8/26/2021			0.057	0.013	0.03
Mean	0.00848	0.00519	0.05175	0.01703	0.03533
Std. Dev.	0.003266	0.0008207	0.007129	0.01007	0.004846
Upper Lim.	0.01033	0.005656	0.0558	0.017	0.03808
Lower Lim.	0.006625	0.004724	0.0477	0.013	0.03257

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.015					0.0153
5/19/2016		<0.015	<0.015	0.00491 (J)		
7/19/2016						0.0093 (J)
7/20/2016	<0.015	<0.015	0.00095 (J)	0.0025 (J)		
9/14/2016	0.00091 (J)	<0.015	0.0009 (J)	0.0028 (J)		0.012 (J)
11/10/2016				0.0016 (J)		0.0065 (J)
11/11/2016	<0.015	<0.015	<0.015			
1/24/2017						0.0049 (J)
1/27/2017		<0.015	<0.015	0.0023 (J)		
2/6/2017	<0.015					
2/8/2017					<0.015	
2/23/2017					<0.015	
3/14/2017						0.0034 (J)
3/15/2017	<0.015	<0.015	<0.015	0.0022 (J)		
3/17/2017					<0.015	
4/11/2017					<0.015	
4/25/2017						0.004 (J)
4/26/2017	<0.015	<0.015	<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)
8/10/2017	0.00093 (J)	0.0011 (J)	0.0046 (J)			
3/29/2018		<0.015	<0.015	0.0028 (J)	<0.015	
3/30/2018	<0.015					0.0049 (J)
6/14/2018	<0.015	<0.015	<0.015	0.0018 (J)	<0.015	0.0056 (J)
10/3/2018						0.0041 (J)
10/4/2018	<0.015	<0.015	<0.015	<0.015	<0.015	
2/27/2019	<0.015	<0.015	0.00063 (J)	0.0019 (J)	<0.015	0.0061
4/3/2019		<0.015	<0.015	<0.015	<0.015	
4/4/2019	<0.015					0.0039 (J)
9/18/2019				0.0021 (J)	<0.015	0.0052
9/19/2019	<0.015	<0.015	0.00073 (J)			
2/5/2020	<0.015	<0.015	<0.015	0.0012 (J)	<0.015	
2/7/2020						0.0024 (J)
3/18/2020	<0.015	<0.015	<0.015			0.002 (J)
3/19/2020				0.0018 (J)	<0.015	
9/23/2020	<0.015		<0.015			0.0031 (J)
9/24/2020		0.0017 (J)		<0.015	<0.015	
2/3/2021		<0.015	<0.015			
2/4/2021	<0.015			0.0012 (J)	<0.015	0.0022 (J)
3/11/2021	<0.015			0.0013 (J)	<0.015	
3/12/2021		<0.015	0.00062 (J)			0.0019 (J)
8/25/2021		<0.015	<0.015	0.00092 (J)	<0.015	
8/26/2021	<0.015					0.0029 (J)
Mean	0.01359	0.01364	0.01092	0.004051	0.0143	0.005195
Std. Dev.	0.004334	0.004187	0.006442	0.004795	0.00313	0.003435
Upper Lim.	0.015	0.015	0.015	0.00491	0.015	0.006568
Lower Lim.	0.00093	0.0017	0.00095	0.0016	0.001	0.003266

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-9
5/18/2016	0.00526 (J)		
5/19/2016			0.00762 (J)
7/20/2016	0.0066 (J)		0.0084 (J)
9/14/2016	0.0081 (J)		0.0071 (J)
11/10/2016	0.0076 (J)		
11/11/2016		<0.015	
1/20/2017	0.0094 (J)		
2/6/2017		0.001 (J)	
2/9/2017			0.018
3/14/2017	0.0044 (J)		
3/15/2017		<0.015	0.0057 (J)
4/11/2017		<0.015	0.0047 (J)
4/25/2017	0.0074 (J)		
4/26/2017		<0.015	0.004 (J)
6/7/2017		0.0015 (J)	
7/11/2017		<0.015	
8/9/2017	0.0066 (J)		
8/10/2017		0.0016 (J)	0.0046 (J)
3/29/2018		0.0012 (J)	0.0048 (J)
3/30/2018	0.0024 (J)		
6/14/2018	0.0026 (J)	0.0014 (J)	0.0046 (J)
10/4/2018	0.00085 (J)	<0.015	0.003 (J)
2/26/2019	0.0032 (J)		
2/28/2019		0.0013 (J)	0.0053
4/2/2019		<0.015	
4/3/2019			0.0026 (J)
4/4/2019	0.002 (J)		
9/18/2019	0.0026 (J)	0.0011 (J)	
9/19/2019			0.0048 (J)
2/5/2020			0.0044 (J)
2/7/2020	0.0025 (J)	0.0014 (J)	
3/18/2020	0.0024 (J)		
3/19/2020			0.0042 (J)
5/4/2020		0.0013 (J)	
9/23/2020	0.0027 (J)	0.0013 (J)	0.0027 (J)
2/3/2021		0.0013 (J)	
2/4/2021	0.0025 (J)		0.003 (J)
3/11/2021	0.0022 (J)	0.0012 (J)	
3/12/2021			0.003 (J)
8/25/2021	0.0022 (J)		
8/26/2021		0.0011 (J)	0.0028 (J)
Mean	0.004176	0.006085	0.005266
Std. Dev.	0.002528	0.006713	0.003413
Upper Lim.	0.005288	0.015	0.006065
Lower Lim.	0.002606	0.0012	0.003563

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	<0.005				<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	<0.005			
9/14/2016	<0.005	<0.005	<0.005		<0.005	0.0091
11/10/2016					<0.005	0.0056
11/11/2016	<0.005	<0.005	<0.005			
1/24/2017					<0.005	0.012
1/27/2017		<0.005	<0.005			
2/6/2017	<0.005					
2/8/2017				<0.005		
2/23/2017				<0.005		
3/14/2017					<0.005	
3/15/2017	<0.005	<0.005	<0.005			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	<0.005		
5/17/2017				<0.005		
6/7/2017				<0.005		
7/11/2017				<0.005		
8/9/2017					<0.005	0.016
8/10/2017	0.00031 (J)	0.00049 (J)	0.0021			
3/29/2018		<0.005	<0.005	0.0003 (J)		0.016
3/30/2018	<0.005				<0.005	
6/14/2018	<0.005	<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	<0.005		0.013
2/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	0.0081
4/3/2019		<0.005	<0.005	<0.005		
4/4/2019	<0.005				<0.005	0.0091
9/18/2019				<0.005	<0.005	0.0044 (J)
9/19/2019	<0.005	<0.005	<0.005			
2/5/2020	<0.005	<0.005	<0.005	<0.005		
2/7/2020					<0.005	0.0036 (J)
3/18/2020	<0.005	<0.005	<0.005		<0.005	0.0046 (J)
3/19/2020				<0.005		
9/23/2020	<0.005		<0.005		<0.005	0.0028 (J)
9/24/2020		<0.005		<0.005		
2/3/2021		<0.005	<0.005			
2/4/2021	<0.005			<0.005	<0.005	0.0023 (J)
3/11/2021	<0.005			<0.005		0.0023 (J)
3/12/2021		<0.005	<0.005		<0.005	
8/25/2021		<0.005	<0.005	<0.005		0.0019 (J)
8/26/2021	<0.005				<0.005	
Mean	0.004765	0.004774	0.004855	0.004765	0.004775	0.008133
Std. Dev.	0.001049	0.001008	0.0006485	0.001051	0.001006	0.004632
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.01076
Lower Lim.	0.00031	0.00049	0.0021	0.0003	0.0005	0.005502

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-19	WGWC-8	WGWC-9
5/19/2016		0.00518	0.00228
7/20/2016		0.0038	0.0016
9/14/2016			0.0024
9/15/2016		0.0034	
11/11/2016	<0.005		
11/14/2016		0.0033	
2/6/2017	<0.005	0.0033	
2/9/2017			0.0023
3/15/2017	<0.005	0.003	0.0031
4/11/2017	<0.005		0.0023
4/26/2017	<0.005	0.0032	0.0019
6/7/2017	<0.005		
7/11/2017	<0.005		
8/10/2017	0.00036 (J)	0.0031	0.0021
3/29/2018	<0.005	0.0034	0.0021
6/14/2018	<0.005	0.0031	0.0025
10/4/2018	<0.005	0.0033	0.002
2/27/2019		0.0035	
2/28/2019	<0.005		0.0027
4/2/2019	<0.005		
4/3/2019		0.0031	0.0019
9/18/2019	<0.005		
9/19/2019		0.0021 (J)	0.0026 (J)
2/5/2020			0.0033 (J)
2/7/2020	<0.005	0.0048 (J)	
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		0.0029 (J)
2/3/2021	<0.005	0.0036 (J)	
2/4/2021			0.003 (J)
3/11/2021	<0.005	0.0038 (J)	
3/12/2021			0.0034 (J)
8/26/2021	<0.005	0.0037 (J)	0.0028 (J)
Mean	0.004768	0.003514	0.002524
Std. Dev.	0.001038	0.0006431	0.0005245
Upper Lim.	0.005	0.003879	0.002822
Lower Lim.	0.00036	0.003149	0.002226

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/18/2021 10:45 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-14A	WGWC-16	WGWC-19
5/18/2016	<0.001			<0.001	
5/19/2016		<0.001			
7/19/2016				8.5E-05 (J)	
7/20/2016	<0.001	<0.001			
9/14/2016	<0.001	<0.001		0.00017 (J)	
11/10/2016				0.00017 (J)	
11/11/2016	<0.001	<0.001			<0.001
1/24/2017				0.00023 (J)	
1/27/2017		<0.001			
2/6/2017	<0.001				<0.001
2/8/2017			0.00011 (J)		
2/23/2017			0.00012 (J)		
3/15/2017	<0.001	<0.001		0.00021 (J)	<0.001
3/17/2017			<0.001		
4/11/2017			<0.001		<0.001
4/25/2017				0.00024 (J)	
4/26/2017	<0.001	<0.001	<0.001		<0.001
5/17/2017			<0.001		
6/7/2017			<0.001		<0.001
7/11/2017			<0.001		<0.001
8/9/2017				0.0002 (J)	
8/10/2017	<0.001	<0.001			<0.001
3/29/2018		<0.001	0.0002 (J)	0.00019 (J)	<0.001
3/30/2018	8.5E-05 (J)				
6/14/2018	<0.001	<0.001	0.00014 (J)	0.00017 (J)	<0.001
10/4/2018	<0.001	<0.001	0.00013 (J)	0.00015 (J)	<0.001
2/27/2019	<0.001	<0.001	0.00016 (J)	0.00015 (J)	
2/28/2019					<0.001
4/2/2019					<0.001
4/3/2019		<0.001	0.00012 (J)		
4/4/2019	<0.001			9.5E-05 (J)	
9/18/2019			<0.001	<0.001	<0.001
9/19/2019	<0.001	<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			0.00017 (J)		
5/4/2020					<0.001
9/23/2020	<0.001			<0.001	<0.001
9/24/2020		<0.001	<0.001		
2/3/2021		0.00016 (J)			0.00018 (J)
2/4/2021	<0.001		0.00021 (J)	<0.001	
3/11/2021	<0.001		0.00019 (J)	<0.001	<0.001
3/12/2021		<0.001			
8/25/2021		<0.001	<0.001	<0.001	
8/26/2021	<0.001				<0.001
Mean	0.0009543	0.000958	0.0005385	0.000503	0.000959
Std. Dev.	0.0002046	0.0001878	0.0004292	0.0004179	0.0001834
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	8.5E-05	0.00016	0.00014	0.00017	0.00018

FIGURE I.

State Confidence Intervals - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/18/2021, 10:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	WGWC-19	0.0558	0.0477	0.009	Yes 20	0.05175	0.007129	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.017	0.013	0.009	Yes 20	0.01703	0.01007	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03808	0.03257	0.009	Yes 20	0.03533	0.004846	0	None	No	0.01	Param.

State Confidence Intervals - All Results

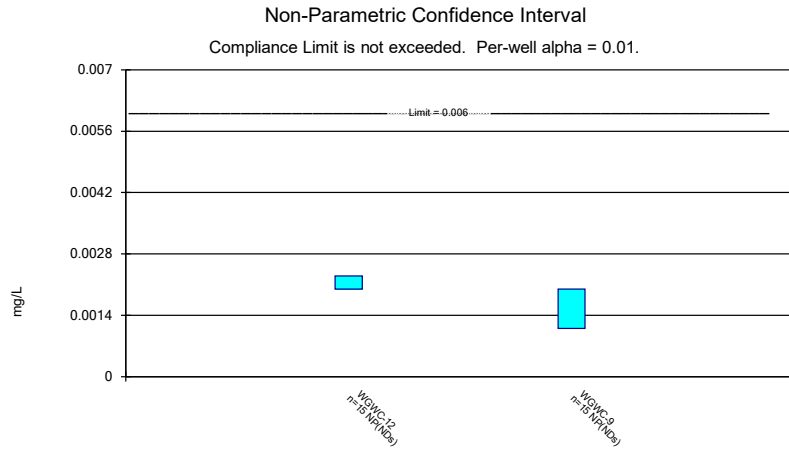
Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/18/2021, 10:49 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	15	0.00202	0.00007746	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.002	0.0011	0.006	No	15	0.001728	0.0005829	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	20	0.0008715	0.0002529	75	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	20	0.000926	0.0001811	85	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	20	0.00095	0.000154	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00039	0.01	No	20	0.000782	0.0003229	45	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0014	0.00095	0.01	No	20	0.001243	0.0005847	65	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-15	0.00217	0.001307	0.01	No	20	0.001739	0.00076	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0014	0.001	0.01	No	20	0.001158	0.0003311	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-17	0.001	0.00067	0.01	No	20	0.00084	0.0002086	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-8	0.0008798	0.0005162	0.01	No	20	0.0009625	0.0002774	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	20	0.0009975	0.0002076	85	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	20	0.03856	0.006403	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.0405	0.03202	2	No	20	0.0365	0.007964	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-12	0.01954	0.0154	2	No	20	0.01712	0.004162	0	None	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05611	0.04599	2	No	20	0.05105	0.008912	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04693	0.03107	2	No	20	0.039	0.01397	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02433	0.02023	2	No	20	0.02228	0.003608	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.05813	0.03982	2	No	20	0.04898	0.01613	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-17	0.019	0.011	2	No	20	0.01495	0.004036	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.005	0.0013	2	No	20	0.002913	0.001948	35	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.005	0.0011	2	No	20	0.003064	0.001783	40	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.001567	0.0008775	2	No	20	0.002611	0.00187	35	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	WGWC-14A	0.0025	0.00026	0.004	No	20	0.001824	0.00106	70	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	20	0.002386	0.0005098	95	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.002114	0.001571	0.004	No	20	0.001843	0.000479	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	20	0.001337	0.00108	45	None	No	0.01	NP (normality)
Chromium (mg/L)	WGWC-10	0.00233	0.00169	0.1	No	20	0.00201	0.0005628	15	None	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0017	0.1	No	20	0.001905	0.0002685	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	20	0.00197	0.00008013	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	20	0.001985	0.00006708	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	20	0.001975	0.0001118	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	20	0.002025	0.0001118	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001563	0.0007636	0.013	No	20	0.001232	0.0008066	5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00064	0.013	No	20	0.001554	0.00093	35	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001126	0.000479	0.013	No	20	0.0008685	0.0006568	5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0008	0.013	No	20	0.001984	0.0009233	75	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-14A	0.01029	0.005423	0.013	No	20	0.007855	0.004283	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	20	0.002382	0.0005255	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.014	0.00026	0.013	No	20	0.006741	0.006293	10	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-17	0.00163	0.0007532	0.013	No	20	0.001191	0.0007719	5	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	20	0.0013	0.001118	45	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0025	0.00066	0.013	No	20	0.00182	0.001019	45	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	20	0.002411	0.0003958	95	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4377	0.1713	10.4	No	20	0.3045	0.2346	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.6194	0.1742	10.4	No	20	0.3968	0.392	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.5963	0.1813	10.4	No	20	0.3888	0.3654	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7865	0.4694	10.4	No	20	0.628	0.2793	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8335	0.5318	10.4	No	20	0.6991	0.3011	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6472	0.3074	10.4	No	20	0.5077	0.3456	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.872	0.8325	10.4	No	20	1.352	0.9154	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5347	0.1211	10.4	No	20	0.3279	0.3641	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.5435	0.187	10.4	No	20	0.3653	0.3139	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	2.033	1.336	10.4	No	20	1.685	0.614	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4374	0.1644	10.4	No	20	0.3009	0.2404	0	None	No	0.01	Param.

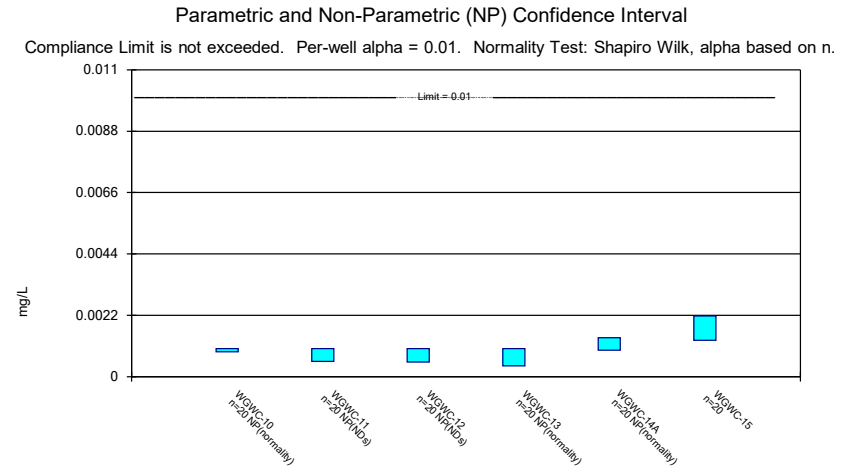
State Confidence Intervals - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 10/18/2021, 10:49 AM

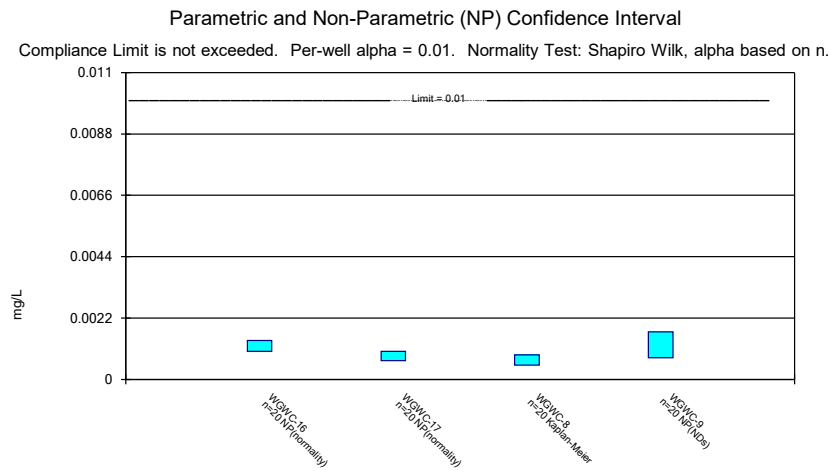
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	WGWC-10	0.1752	0.1304	4	No	21	0.1528	0.04061	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-11	0.056	0.045	4	No	21	0.05348	0.02964	57.14	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-12	0.1009	0.07516	4	No	21	0.085	0.0284	19.05	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-13	0.2907	0.2068	4	No	21	0.2488	0.076	4.762	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-14A	0.05	0.04	4	No	21	0.04738	0.008657	66.67	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-15	0.8664	0.7707	4	No	21	0.8185	0.0867	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-16	0.15	0.058	4	No	21	0.1521	0.1838	9.524	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-17	0.1344	0.08396	4	No	21	0.1092	0.04573	4.762	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-19	0.3753	0.3247	4	No	21	0.35	0.04593	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-8	0.3423	0.2001	4	No	21	0.2712	0.1289	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-9	1.502	1.183	4	No	21	1.342	0.2886	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00021	0.001	No	18	0.0006617	0.0003936	55.56	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.001	No	18	0.0008644	0.0002679	77.78	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00045	0.001	No	18	0.000725	0.0002744	44.44	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00031	0.001	No	18	0.0007889	0.0003548	72.22	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.001	No	18	0.0009611	0.000165	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.001	No	18	0.0009039	0.0002797	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.001	No	18	0.0009183	0.0002387	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00016	0.001	No	18	0.0007628	0.0003937	72.22	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.001	No	18	0.0009522	0.0002027	94.44	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01439	0.007231	0.009	No	20	0.01141	0.007141	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.009	No	20	0.004465	0.001312	85	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.00777	0.006121	0.009	No	20	0.006785	0.001742	5	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0038	0.009	No	20	0.00445	0.001062	75	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-14A	0.005	0.0033	0.009	No	20	0.004155	0.001305	65	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-15	0.007217	0.005553	0.009	No	20	0.006385	0.001465	10	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01033	0.006625	0.009	No	20	0.00848	0.003266	5	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005656	0.004724	0.009	No	20	0.00519	0.0008207	5	None	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.0558	0.0477	0.009	Yes	20	0.05175	0.007129	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.017	0.013	0.009	Yes	20	0.01703	0.01007	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03808	0.03257	0.009	Yes	20	0.03533	0.004846	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.015	No	20	0.01359	0.004334	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.015	No	20	0.01364	0.004187	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.00095	0.015	No	20	0.01092	0.006442	70	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0016	0.015	No	20	0.004051	0.004795	15	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.015	No	20	0.0143	0.00313	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.006568	0.003266	0.015	No	20	0.005195	0.003435	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.005288	0.002606	0.015	No	20	0.004176	0.002528	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.015	No	20	0.006085	0.006713	35	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-9	0.006065	0.003563	0.015	No	20	0.005266	0.003413	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	20	0.004765	0.001049	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	20	0.004774	0.001008	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	20	0.004855	0.0006485	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	20	0.004765	0.001051	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	20	0.004775	0.001006	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01076	0.005502	0.05	No	20	0.008133	0.004632	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	20	0.004768	0.001038	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.003879	0.003149	0.05	No	20	0.003514	0.0006431	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-9	0.002822	0.002226	0.05	No	20	0.002524	0.0005245	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	20	0.0009543	0.0002046	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	20	0.000958	0.0001878	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00014	0.002	No	20	0.0005385	0.0004292	45	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00017	0.002	No	20	0.000503	0.0004179	40	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	20	0.000959	0.0001834	95	None	No	0.01	NP (NDs)



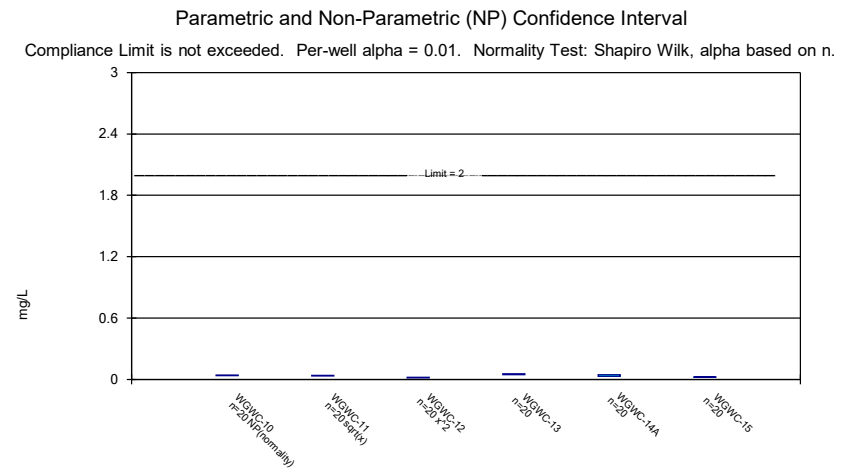
Constituent: Antimony Analysis Run 10/18/2021 10:47 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Arsenic Analysis Run 10/18/2021 10:47 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



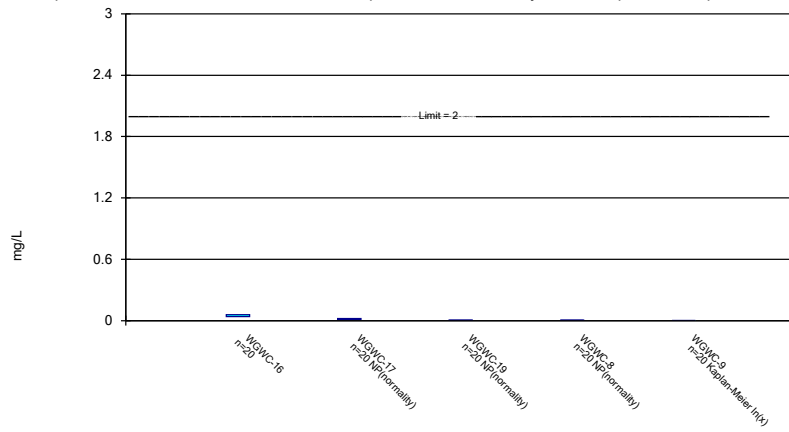
Constituent: Arsenic Analysis Run 10/18/2021 10:47 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



Constituent: Barium Analysis Run 10/18/2021 10:47 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

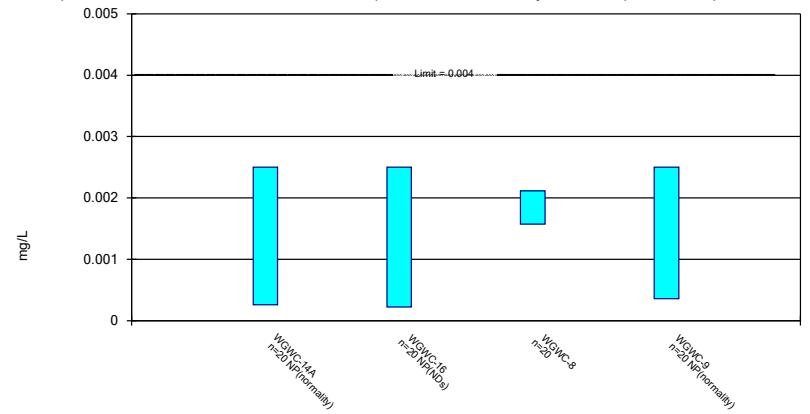
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/18/2021 10:47 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

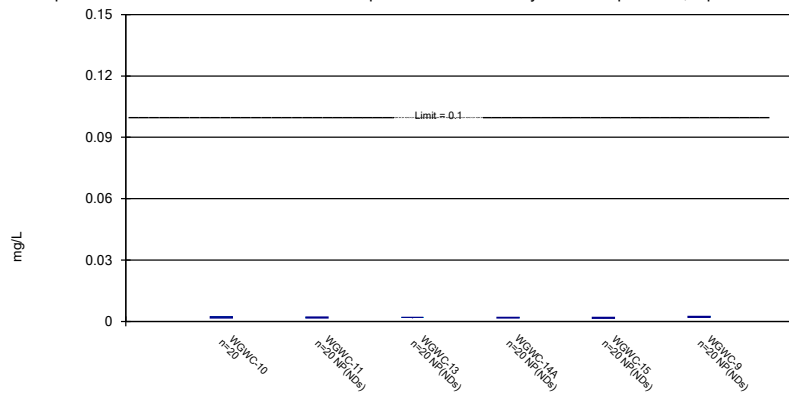
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Constituent: Beryllium Analysis Run 10/18/2021 10:47 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

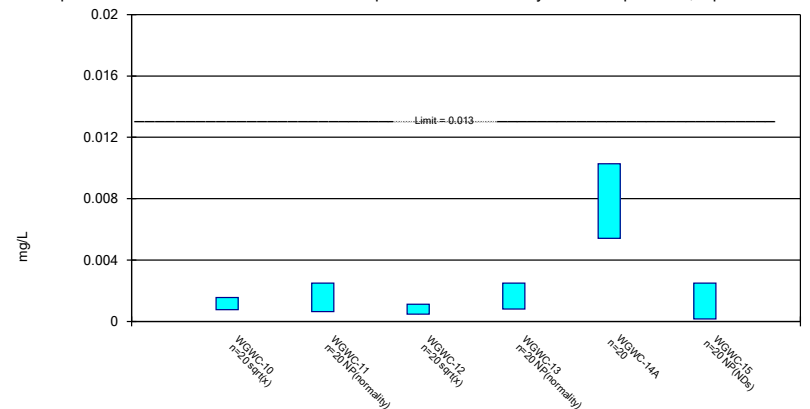
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Constituent: Chromium Analysis Run 10/18/2021 10:47 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

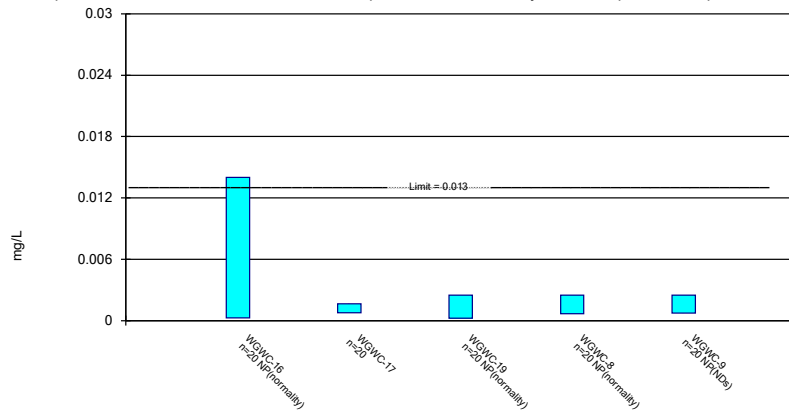
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Constituent: Cobalt Analysis Run 10/18/2021 10:47 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

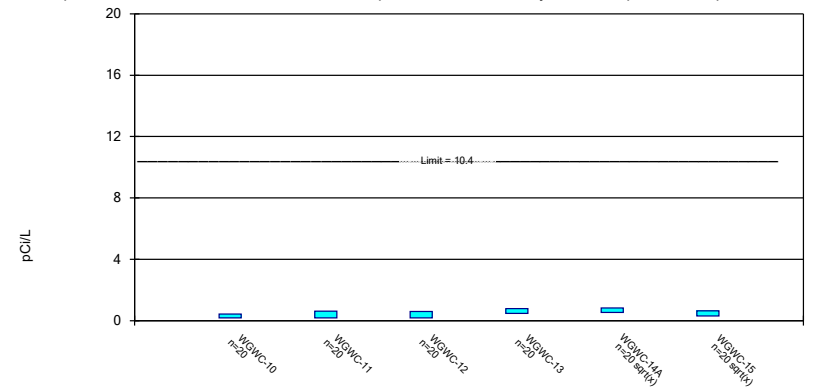
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/18/2021 10:47 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

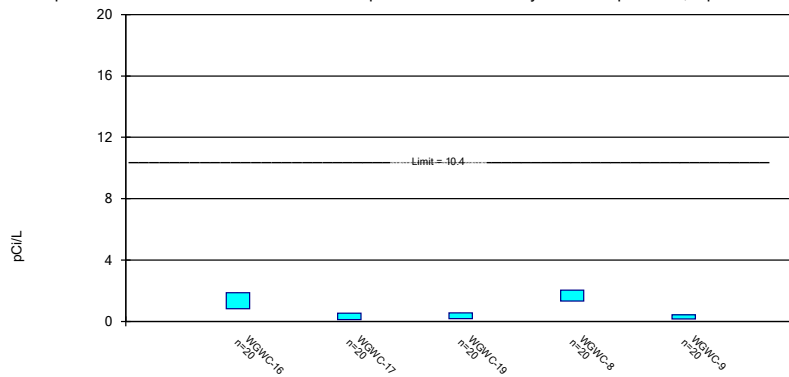
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2021 10:47 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

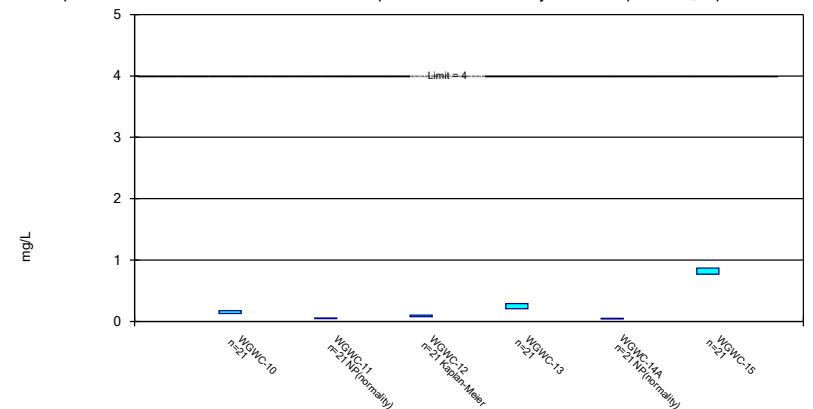
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Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2021 10:47 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

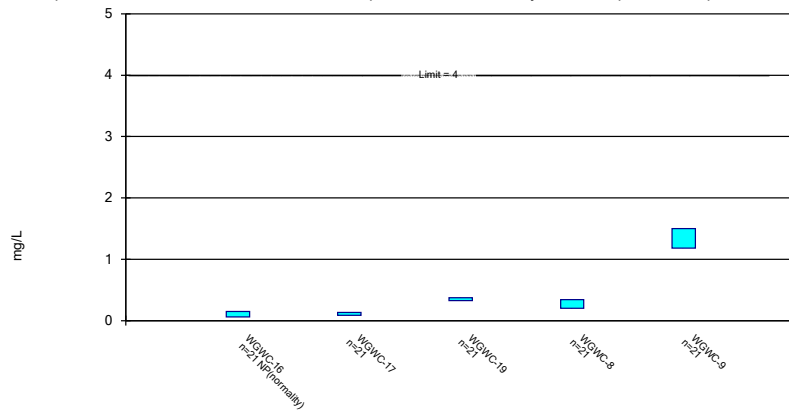
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Constituent: Fluoride, total Analysis Run 10/18/2021 10:48 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

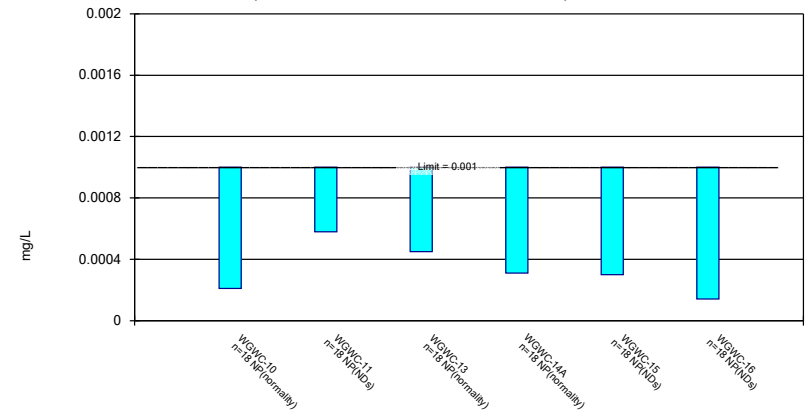
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Constituent: Fluoride, total Analysis Run 10/18/2021 10:48 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

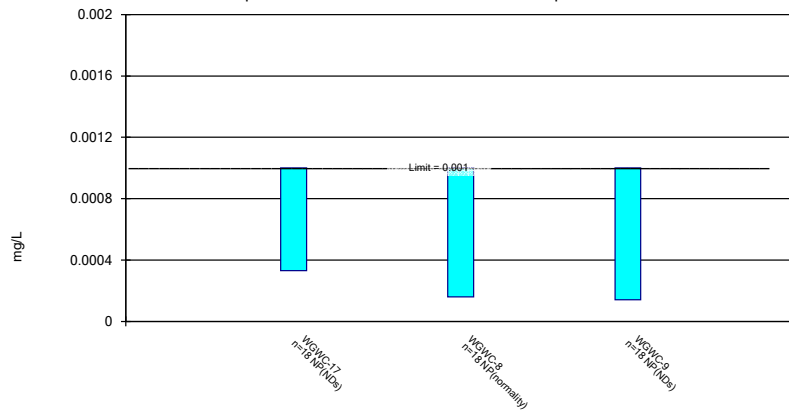
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 10/18/2021 10:48 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

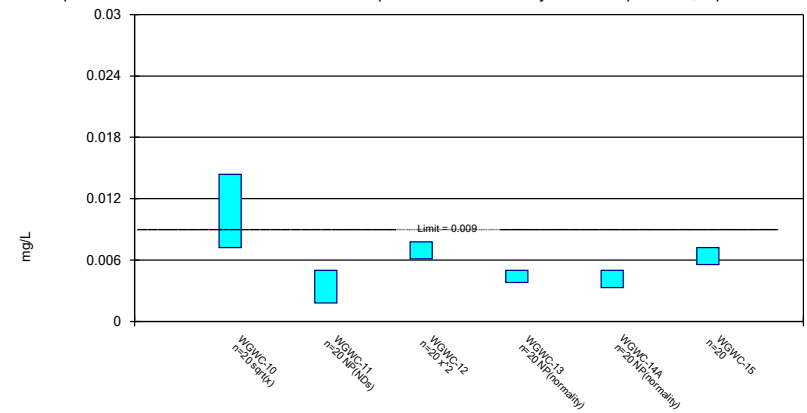
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 10/18/2021 10:48 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

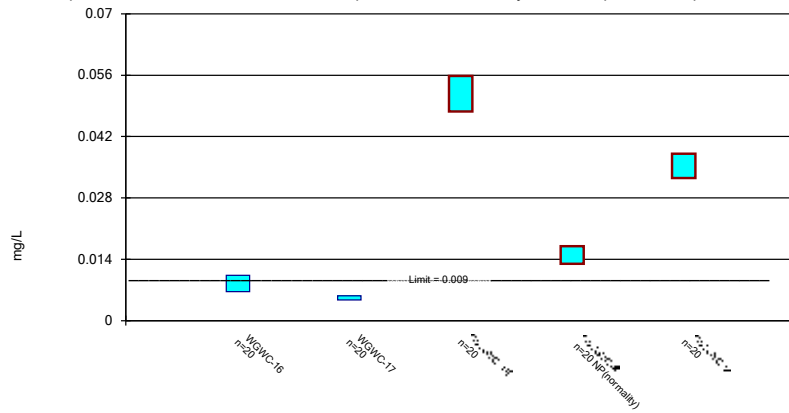
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Constituent: Lithium Analysis Run 10/18/2021 10:48 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

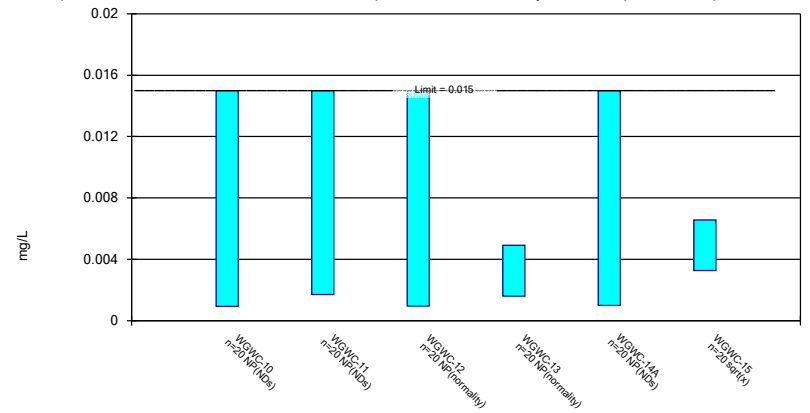
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Constituent: Lithium Analysis Run 10/18/2021 10:48 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

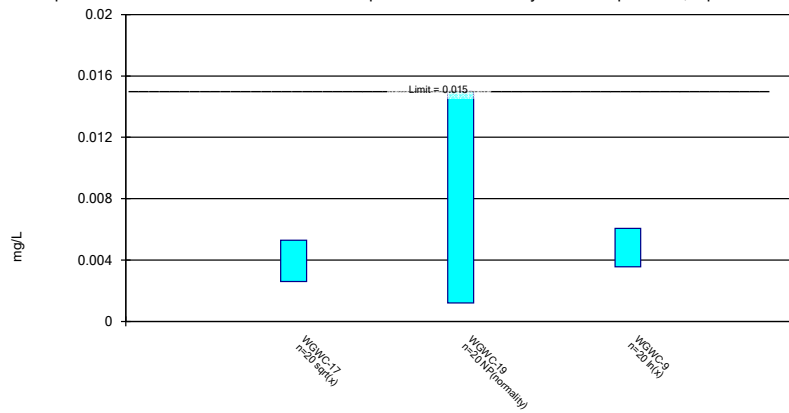
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Constituent: Molybdenum Analysis Run 10/18/2021 10:48 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

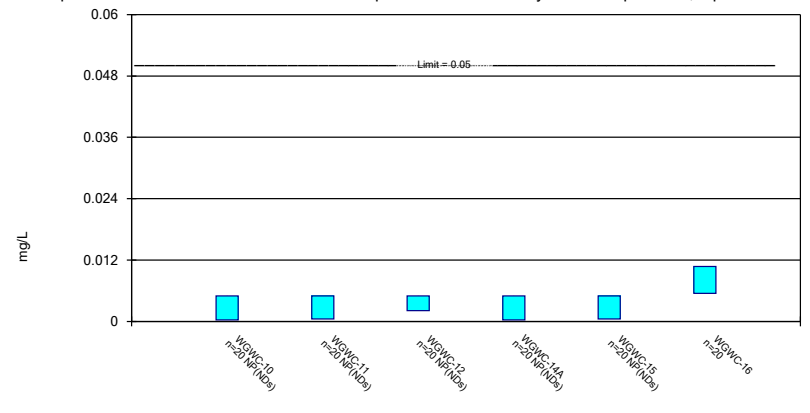
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Constituent: Molybdenum Analysis Run 10/18/2021 10:48 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

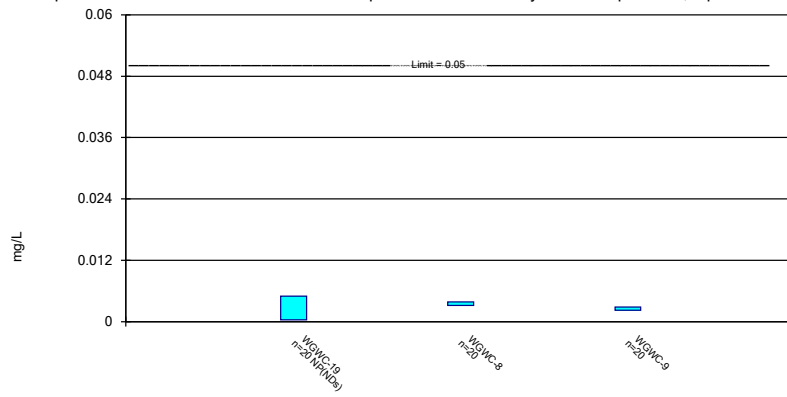
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/18/2021 10:48 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

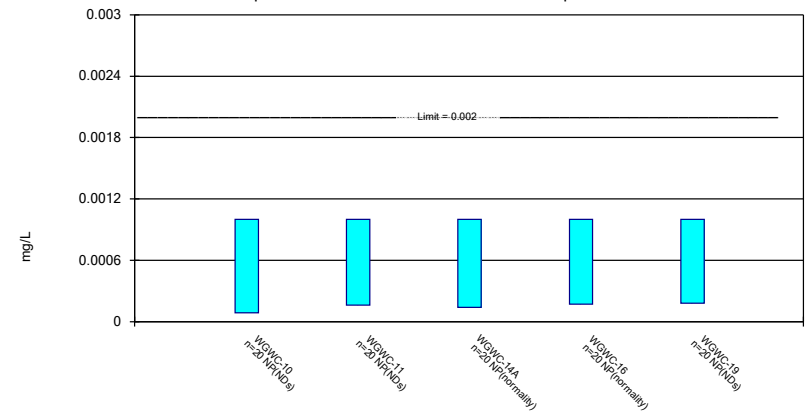
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/18/2021 10:48 AM View: Confidence Intervals
 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 10/18/2021 10:48 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-9
5/19/2016	<0.002	<0.002
7/20/2016	<0.002	<0.002
9/14/2016	<0.002	<0.002
11/11/2016	<0.002	
1/27/2017	<0.002	
2/9/2017		<0.002
3/15/2017	<0.002	0.0011 (J)
4/11/2017		<0.002
4/26/2017	<0.002	<0.002
8/10/2017	0.0023 (J)	<0.002
3/29/2018	<0.002	<0.002
2/27/2019	<0.002	
2/28/2019		<0.002
2/5/2020	<0.002	<0.002
3/18/2020	<0.002	
3/19/2020		0.00041 (J)
2/3/2021	<0.002	
2/4/2021		0.00041 (J)
3/12/2021	<0.002	<0.002
8/25/2021	<0.002	
8/26/2021		<0.002
Mean	0.00202	0.001728
Std. Dev.	7.746E-05	0.0005829
Upper Lim.	0.0023	0.002
Lower Lim.	0.002	0.0011

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001					0.00345
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						0.0031
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	<0.001		0.0024
11/10/2016				<0.001		0.0023
11/11/2016	<0.001	<0.001	<0.001			
1/24/2017						0.0019
1/27/2017		0.00047 (J)	<0.001	0.00066 (J)		
2/6/2017	<0.001					
2/8/2017					<0.001	
2/23/2017					<0.001	
3/14/2017						0.0016
3/15/2017	<0.001	<0.001	<0.001	<0.001		
3/17/2017					0.0006 (J)	
4/11/2017					0.0032	
4/25/2017						0.0019
4/26/2017	<0.001	<0.001	<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
8/10/2017	<0.001	<0.001	0.00048 (J)			
3/29/2018		<0.001	<0.001	0.00067 (J)	<0.001	
3/30/2018	<0.001					0.0018
6/14/2018	0.0005 (J)	<0.001	0.00052 (J)	0.00093 (J)	<0.001	0.002
10/3/2018						0.0024
10/4/2018	0.00089 (J)	0.00054 (J)	<0.001	0.0015	0.0017	
2/27/2019	<0.001	<0.001	<0.001	0.00036 (J)	<0.001	0.0015
4/3/2019		<0.001	<0.001	0.00053 (J)	<0.001	
4/4/2019	<0.001					0.0019
9/18/2019				0.00039 (J)	<0.001	0.0016
9/19/2019	0.00038 (J)	<0.001	<0.001			
2/5/2020	0.00035 (J)	<0.001	<0.001	0.00048 (J)	<0.001	
2/7/2020						0.001
3/18/2020	<0.001	<0.001	<0.001			0.00088 (J)
3/19/2020				0.00039 (J)	<0.001	
9/23/2020	<0.001		<0.001			0.00061 (J)
9/24/2020		0.00051 (J)		<0.001	<0.001	
2/3/2021		<0.001	<0.001			
2/4/2021	<0.001			0.00038 (J)	<0.001	0.00069 (J)
3/11/2021	0.00031 (J)			0.00035 (J)	<0.001	
3/12/2021		<0.001	<0.001			0.00084 (J)
8/25/2021		<0.001	<0.001	<0.001	<0.001	
8/26/2021	<0.001					0.0012
Mean	0.0008715	0.000926	0.00095	0.000782	0.001243	0.001739
Std. Dev.	0.0002529	0.0001811	0.000154	0.0003229	0.0005847	0.00076
Upper Lim.	0.001	0.001	0.001	0.001	0.0014	0.00217
Lower Lim.	0.00089	0.00054	0.00052	0.00039	0.00095	0.001307

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-8	WGWC-9
5/18/2016	<0.001	<0.001		
5/19/2016			<0.001	<0.001
7/19/2016	0.0009 (J)			
7/20/2016		0.00058 (J)	0.00055 (J)	0.00078 (J)
9/14/2016	0.0014	<0.001		<0.001
9/15/2016			<0.001	
11/10/2016	0.0021	0.00082 (J)		
11/14/2016			<0.001	
1/20/2017		<0.001		
1/24/2017	0.0015			
2/6/2017			<0.001	
2/9/2017				0.0017
3/14/2017		<0.001		
3/15/2017	0.0014		<0.001	0.00047 (J)
4/11/2017				<0.001
4/25/2017	0.0014	0.00095 (J)		
4/26/2017			<0.001	<0.001
8/9/2017	0.0013	<0.001		
8/10/2017			<0.001	<0.001
3/29/2018	0.0014		<0.001	<0.001
3/30/2018		<0.001		
6/14/2018	<0.001	0.00076 (J)	<0.001	<0.001
10/4/2018	0.0013	0.00088 (J)	0.0015	<0.001
2/26/2019		0.0005 (J)		
2/27/2019	0.00046 (J)		0.00047 (J)	
2/28/2019				<0.001
4/3/2019			<0.001	<0.001
4/4/2019	<0.001	<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	<0.001	0.00075 (J)	0.0011	
3/18/2020	<0.001	0.00054 (J)		
3/19/2020			0.00071 (J)	<0.001
9/22/2020			0.0011	
9/23/2020	<0.001	0.00067 (J)		<0.001
2/3/2021			0.0013	
2/4/2021	<0.001	0.00035 (J)		<0.001
3/11/2021	<0.001	<0.001	0.0009 (J)	
3/12/2021				<0.001
8/25/2021	<0.001	<0.001		
8/26/2021			0.0013	<0.001
Mean	0.001158	0.00084	0.0009625	0.0009975
Std. Dev.	0.0003311	0.0002086	0.0002774	0.0002076
Upper Lim.	0.0014	0.001	0.0008798	0.0017
Lower Lim.	0.001	0.00067	0.0005162	0.00078

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.0391					0.0206
5/19/2016		0.031	0.0214	0.055		
7/19/2016						0.019
7/20/2016	0.028	0.029	0.019	0.039		
9/14/2016	0.035	0.031	0.02	0.04		0.02
11/10/2016				0.04		0.02
11/11/2016	0.042	0.034	0.022			
1/24/2017						0.017
1/27/2017		0.042	0.023	0.042		
2/6/2017	0.041					
2/8/2017					0.037	
2/23/2017					0.051	
3/14/2017						0.018
3/15/2017	0.04	0.032	0.024	0.058		
3/17/2017					0.046	
4/11/2017					0.055	
4/25/2017						0.018
4/26/2017	0.039	0.03	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
8/10/2017	0.038	0.03	0.017			
3/29/2018		0.028	0.017	0.061	0.028	
3/30/2018	0.042					0.021
6/14/2018	0.038	0.03	0.015	0.055	0.023	0.022
10/3/2018						0.024
10/4/2018	0.04	0.035	0.017	0.046	0.036	
2/27/2019	0.04	0.04	0.016	0.054	0.028	0.023
4/3/2019		0.035	0.015	0.056	0.026	
4/4/2019	0.04					0.022
9/18/2019				0.062	0.025	0.026
9/19/2019	0.038	0.033	0.016			
2/5/2020	0.061	0.047	0.016	0.052	0.077	
2/7/2020						0.022
3/18/2020	0.035	0.038	0.016			0.021
3/19/2020				0.072	0.031	
9/23/2020	0.035		0.016			0.027
9/24/2020		0.061		0.038	0.034	
2/3/2021		0.039	0.015			
2/4/2021	0.035			0.047	0.029	0.028
3/11/2021	0.033			0.049	0.032	
3/12/2021		0.045	0.017			0.028
8/25/2021		0.04	0.016	0.046	0.03	
8/26/2021	0.032					0.029
Mean	0.03856	0.0365	0.01712	0.05105	0.039	0.02228
Std. Dev.	0.006403	0.007964	0.004162	0.008912	0.01397	0.003608
Upper Lim.	0.041	0.0405	0.01954	0.05611	0.04693	0.02433
Lower Lim.	0.035	0.03202	0.0154	0.04599	0.03107	0.02023

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.0715	0.0219			
5/19/2016				0.0026	<0.01
7/19/2016	0.069				
7/20/2016		0.019		0.0017 (J)	0.0014 (J)
9/14/2016	0.066	0.017			0.00092 (J)
9/15/2016				0.0039	
11/10/2016	0.069	0.02			
11/11/2016			0.0022 (J)		
11/14/2016				0.00085 (J)	
1/20/2017		0.018			
1/24/2017	0.068				
2/6/2017			0.0018 (J)	0.0011 (J)	
2/9/2017					0.0015 (J)
3/14/2017		0.019			
3/15/2017	0.065		0.0015 (J)	0.0013 (J)	0.00054 (J)
4/11/2017			0.0014 (J)		0.0007 (J)
4/25/2017	0.057	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	0.069	0.017			
8/10/2017			0.0012 (J)	0.0025	0.00053 (J)
3/29/2018	0.05		0.00097 (J)	0.00085 (J)	<0.01
3/30/2018		0.015			
6/14/2018	0.046	0.013	0.0011 (J)	0.0028	0.00088 (J)
10/4/2018	0.046	0.013	0.0012 (J)	0.0017 (J)	0.00076 (J)
2/26/2019		0.012			
2/27/2019	0.028			<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	0.027	0.011			
9/18/2019	0.032	0.011	<0.01		
9/19/2019				<0.01	0.0018 (J)
2/5/2020					0.0022 (J)
2/7/2020	0.034	0.011	0.0065 (J)	<0.01	
3/18/2020	0.034	0.012			
3/19/2020				<0.01	0.0021 (J)
5/4/2020			<0.01		
9/22/2020				<0.01	
9/23/2020	0.037	0.012	<0.01		<0.01
2/3/2021			<0.01	<0.01	
2/4/2021	0.039	0.012			0.0016 (J)
3/11/2021	0.037	0.011	<0.01	<0.01	
3/12/2021					<0.01
8/25/2021	0.035	0.011			
8/26/2021			<0.01	<0.01	<0.01
Mean	0.04898	0.01495	0.002913	0.003064	0.002611
Std. Dev.	0.01613	0.004036	0.001948	0.001783	0.00187
Upper Lim.	0.05813	0.019	0.005	0.005	0.001567
Lower Lim.	0.03982	0.011	0.0013	0.0011	0.0008775

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-16	WGWC-8	WGWC-9
5/18/2016		<0.0025		
5/19/2016			0.00102 (J)	<0.0025
7/19/2016		<0.0025		
7/20/2016			0.0014 (J)	<0.0025
9/14/2016		<0.0025		<0.0025
9/15/2016			0.00093 (J)	
11/10/2016		<0.0025		
11/14/2016			0.0014 (J)	
1/24/2017		<0.0025		
2/6/2017			0.0017 (J)	
2/8/2017	<0.0025			
2/9/2017				0.00041 (J)
2/23/2017	<0.0025			
3/15/2017		<0.0025	0.0016 (J)	<0.0025
3/17/2017	<0.0025			
4/11/2017	<0.0025			<0.0025
4/25/2017		<0.0025		
4/26/2017	<0.0025		0.0017 (J)	<0.0025
5/17/2017	<0.0025			
6/7/2017	<0.0025			
7/11/2017	<0.0025			
8/9/2017		<0.0025		
8/10/2017			0.0017 (J)	0.00034 (J)
3/29/2018	<0.0025	<0.0025	0.0018 (J)	<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)
2/27/2019	0.00017 (J)	0.00022 (J)	0.0021 (J)	
2/28/2019				0.00031 (J)
4/3/2019	<0.0025		0.0019 (J)	<0.0025
4/4/2019		<0.0025		
9/18/2019	0.00032 (J)	<0.0025		
9/19/2019			0.0019	0.00041 (J)
2/5/2020	0.00024 (J)			0.0004 (J)
2/7/2020		<0.0025	0.0023	
3/18/2020		<0.0025		
3/19/2020	0.00025 (J)		0.0028	0.00056 (J)
9/22/2020			0.0025	
9/23/2020		<0.0025		0.00034 (J)
9/24/2020	0.00024 (J)			
2/3/2021			0.0025	
2/4/2021	0.00026 (J)	<0.0025		0.00039 (J)
3/11/2021	<0.0025	<0.0025	0.0022 (J)	
3/12/2021				0.00034 (J)
8/25/2021	<0.0025	<0.0025		
8/26/2021			0.002 (J)	0.00038 (J)
Mean	0.001824	0.002386	0.001843	0.001337
Std. Dev.	0.00106	0.0005098	0.000479	0.00108
Upper Lim.	0.0025	0.0025	0.002114	0.0025
Lower Lim.	0.00026	0.00022	0.001571	0.00036

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-13	WGWC-14A	WGWC-15	WGWC-9
5/18/2016	<0.002				<0.002	
5/19/2016		<0.002	<0.002			<0.002
7/19/2016					<0.002	
7/20/2016	0.0012 (J)	<0.002	<0.002			<0.002
9/14/2016	<0.002	<0.002	<0.002		<0.002	<0.002
11/10/2016			<0.002		<0.002	
11/11/2016	0.0015 (J)	<0.002				
1/24/2017					<0.002	
1/27/2017		<0.002	<0.002			
2/6/2017	0.0011 (J)					
2/8/2017				<0.002		
2/9/2017						<0.002
2/23/2017				<0.002		
3/14/2017					<0.002	
3/15/2017	0.0015 (J)	<0.002	<0.002			<0.002
3/17/2017				<0.002		
4/11/2017				<0.002		<0.002
4/25/2017					<0.002	
4/26/2017	0.0013 (J)	0.0011 (J)	<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	
8/10/2017	0.0016 (J)	<0.002				<0.002
3/29/2018		0.0012 (J)	<0.002	<0.002		<0.002
3/30/2018	0.0027				<0.002	
6/14/2018	0.0023 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
10/3/2018					<0.002	
10/4/2018	0.0031	<0.002	<0.002	<0.002		<0.002
2/27/2019	0.0031	0.0021 (J)	0.0018 (J)	<0.002	0.0015 (J)	
2/28/2019						0.0025
4/3/2019		<0.002	<0.002	<0.002		<0.002
4/4/2019	0.0021 (J)				<0.002	
9/18/2019			<0.002	<0.002	<0.002	
9/19/2019	0.0022	<0.002				<0.002
2/5/2020	0.0022	<0.002	<0.002	0.0017 (J)		<0.002
2/7/2020					<0.002	
3/18/2020	<0.002	<0.002			<0.002	
3/19/2020			<0.002	<0.002		<0.002
9/23/2020	0.0018 (J)				<0.002	<0.002
9/24/2020		<0.002	<0.002	<0.002		
2/3/2021		<0.002				
2/4/2021	0.0018 (J)		<0.002	<0.002	<0.002	<0.002
3/11/2021	0.0023		0.0019 (J)	<0.002		
3/12/2021		0.0017 (J)			<0.002	<0.002
8/25/2021		<0.002	0.0017 (J)	<0.002		
8/26/2021	0.0024				<0.002	<0.002
Mean	0.00201	0.001905	0.00197	0.001985	0.001975	0.002025
Std. Dev.	0.0005628	0.0002685	8.013E-05	6.708E-05	0.0001118	0.0001118
Upper Lim.	0.00233	0.0021	0.002	0.002	0.002	0.0025
Lower Lim.	0.00169	0.0017	0.0019	0.0017	0.0015	0.002

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.00201 (J)					<0.0025
5/19/2016		<0.0025	<0.0025	<0.0025		
7/19/2016						<0.0025
7/20/2016	0.00066 (J)	0.0025	0.0013 (J)	<0.0025		
9/14/2016	0.00095 (J)	<0.0025	0.00098 (J)	<0.0025		<0.0025
11/10/2016				<0.0025		<0.0025
11/11/2016	0.001 (J)	0.00052 (J)	0.0017 (J)			
1/24/2017						<0.0025
1/27/2017		0.00049 (J)	0.0022 (J)	<0.0025		
2/6/2017	0.00072 (J)					
2/8/2017					0.0051	
2/23/2017					0.014	
3/14/2017						<0.0025
3/15/2017	0.00062 (J)	0.00064 (J)	0.0016 (J)	<0.0025		
3/17/2017					0.013	
4/11/2017					0.016	
4/25/2017						<0.0025
4/26/2017	0.0014 (J)	0.001 (J)	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
8/10/2017	<0.0025	0.0011 (J)	0.00049 (J)			
3/29/2018		<0.0025	0.0008 (J)	0.0008 (J)	0.015	
3/30/2018	0.0035					<0.0025
6/14/2018	0.0012 (J)	<0.0025	0.00067 (J)	0.00054 (J)	0.011	<0.0025
10/3/2018						<0.0025
10/4/2018	0.00086 (J)	<0.0025	0.00079 (J)	<0.0025	0.0055	
2/27/2019	0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049	<0.0025
4/3/2019		0.00081 (J)	0.00043 (J)	<0.0025	0.0056	
4/4/2019	0.0017 (J)					<0.0025
9/18/2019				<0.0025	0.005	<0.0025
9/19/2019	0.0023	<0.0025	0.00028 (J)			
2/5/2020	0.0013	0.00026 (J)	0.00058	<0.0025	0.0044	
2/7/2020						<0.0025
3/18/2020	0.0012 (J)	0.00069 (J)	0.00071 (J)			<0.0025
3/19/2020				<0.0025	0.0039	
9/23/2020	0.00062 (J)		0.00039 (J)			<0.0025
9/24/2020		<0.0025		0.00032 (J)	0.0035	
2/3/2021		0.00072 (J)	0.00017 (J)			
2/4/2021	0.00059 (J)			<0.0025	0.0041	0.00015 (J)
3/11/2021	0.00058 (J)			<0.0025	0.0037	
3/12/2021		0.0022 (J)	0.00042 (J)			<0.0025
8/25/2021		0.00045 (J)	0.0005 (J)	<0.0025	0.0029	
8/26/2021	0.00044 (J)					<0.0025
Mean	0.001232	0.001554	0.0008685	0.001984	0.007855	0.002382
Std. Dev.	0.0008066	0.00093	0.0006568	0.0009233	0.004283	0.0005255
Upper Lim.	0.001563	0.0025	0.001126	0.0025	0.01029	0.0025
Lower Lim.	0.0007636	0.00064	0.000479	0.0008	0.005423	0.00015

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.0069	0.00245 (J)			
5/19/2016				<0.0025	<0.0025
7/19/2016	0.012				
7/20/2016		0.0018 (J)		<0.0025	<0.0025
9/14/2016	0.013	0.0014 (J)			<0.0025
9/15/2016				<0.0025	
11/10/2016	0.016	0.0016 (J)			
11/11/2016			<0.0025		
11/14/2016				<0.0025	
1/20/2017		0.0014 (J)			
1/24/2017	0.015				
2/6/2017			0.00058 (J)	<0.0025	
2/9/2017					0.00073 (J)
3/14/2017		0.0023 (J)			
3/15/2017	0.014		0.00045 (J)	<0.0025	<0.0025
4/11/2017			<0.0025		<0.0025
4/25/2017	0.014	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	0.016	0.0011 (J)			
8/10/2017			0.00049 (J)	<0.0025	<0.0025
3/29/2018	0.0092		<0.0025	0.00066 (J)	<0.0025
3/30/2018		0.0016 (J)			
6/14/2018	0.0035	0.00055 (J)	<0.0025	0.0011 (J)	<0.0025
10/4/2018	0.0078	0.00041 (J)	<0.0025	<0.0025	<0.0025
2/26/2019		0.00086 (J)			
2/27/2019	0.00084 (J)			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	0.00077 (J)	<0.0025			
9/18/2019	0.00011 (J)	0.00018 (J)	0.00045 (J)		
9/19/2019				0.0028	<0.0025
2/5/2020					<0.0025
2/7/2020	0.00016 (J)	0.00077	0.00024 (J)	0.0011	
3/18/2020	0.00016 (J)	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	<0.0025	0.0009 (J)	0.00024 (J)		<0.0025
2/3/2021			0.00025 (J)	0.00014 (J)	
2/4/2021	0.00026 (J)	0.00042 (J)			<0.0025
3/11/2021	0.00013 (J)	0.00035 (J)	0.00022 (J)	0.00043 (J)	
3/12/2021					<0.0025
8/25/2021	<0.0025	0.00042 (J)			
8/26/2021			0.00022 (J)	0.0005 (J)	<0.0025
Mean	0.006741	0.001191	0.0013	0.00182	0.002411
Std. Dev.	0.006293	0.0007719	0.001118	0.001019	0.0003958
Upper Lim.	0.014	0.00163	0.0025	0.0025	0.0025
Lower Lim.	0.00026	0.0007532	0.00024	0.00066	0.00073

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.182 (U)					0.569
5/19/2016		0.431 (U)	0.0698 (U)	0.219 (U)		
7/19/2016						0.29 (U)
7/20/2016	-0.135 (U)	-0.263 (U)	-0.0646 (U)	0.404 (U)		
9/14/2016	0.311 (U)	0.13 (U)	0.199 (U)	0.692		0.412 (U)
11/10/2016				1		0.709
11/11/2016	0.542	0.0257 (U)	0.467			
1/24/2017						0.779
1/27/2017		0.898	0.836	0.668		
2/6/2017	0.104 (U)					
2/8/2017					0.958	
2/23/2017					0.771	
3/14/2017						0.247 (U)
3/15/2017	0.523	0.121 (U)	0.254 (U)	0.847		
3/17/2017					1.7	
4/11/2017					0.901	
4/25/2017						0.515
4/26/2017	0.069 (U)	0.0309 (U)	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
8/10/2017	0.189 (U)	0.326 (U)	0.912			
3/29/2018		0.461	0.419	0.51	0.58	
3/30/2018	0.575					0.0985 (U)
6/14/2018	0.523	0.275 (U)	-0.263 (U)	0.463	0.55	0.171 (U)
10/3/2018						0.766
10/4/2018	0.84	1.18	1.29	0.99	0.563	
2/27/2019	0.236 (U)	0.374	0.415	1.08	0.538	0.363 (U)
4/3/2019		0.187 (U)	0.264 (U)	0.446	0.497	
4/4/2019	0.233 (U)					0.418
9/18/2019				0.392	0.376 (U)	0.484
9/19/2019	0.124 (U)	0.338 (U)	0.329 (U)			
2/5/2020	0.0961 (U)	0.163 (U)	0.225 (U)	0.609	0.5	
2/7/2020						0.125 (U)
3/18/2020	0.461 (U)	0.866	-0.0262 (U)			0.303 (U)
3/19/2020				0.47	0.376 (U)	
9/23/2020	0.442 (U)		0.785			0.448 (U)
9/24/2020		1.2		1.02	0.796	
2/3/2021		0.718	0.322 (U)			
2/4/2021	0.0332 (U)			0.139 (U)	0.564	0.488 (U)
3/11/2021	0.42 (U)			0.473	0.764	
3/12/2021		0.0729 (U)	0.633			0.591
8/25/2021		0.401	0.443 (U)	0.913	0.705	
8/26/2021	0.321 (U)					0.678
Mean	0.3045	0.3968	0.3888	0.628	0.6991	0.5077
Std. Dev.	0.2346	0.392	0.3654	0.2793	0.3011	0.3456
Upper Lim.	0.4377	0.6194	0.5963	0.7865	0.8335	0.6472
Lower Lim.	0.1713	0.1742	0.1813	0.4694	0.5318	0.3074

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	1.03	0.116 (U)			
5/19/2016				0.711 (U)	0.209 (U)
7/19/2016	2.39				
7/20/2016		0.247 (U)		1.14	-0.084 (U)
9/14/2016	3.05	0.594			0.42 (U)
9/15/2016				1.26	
11/10/2016	2.87	0.431			
11/11/2016			-0.11 (U)		
11/14/2016				0.749	
1/20/2017		1.35			
1/24/2017	2.68				
2/6/2017			0.471	1.05	
2/9/2017					0.393
3/14/2017		-0.107 (U)			
3/15/2017	1.64		0.255 (U)	1.32	0.271 (U)
4/11/2017			0.19 (U)		0.488 (U)
4/25/2017	0.878	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	2.5	-0.0246 (U)			
8/10/2017			0.882	1.88	0.379
3/29/2018	1.6		0.252 (U)	2.31	0.278 (U)
3/30/2018		0.135 (U)			
6/14/2018	1.09	-0.373 (U)	0.0458 (U)	1.86	0.157 (U)
10/4/2018	1.99	0.775	0.381	2.44	0.48
2/26/2019		0.431			
2/27/2019	0.721			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	0.632	0.386			
9/18/2019	0.278 (U)	0.167 (U)	0.403 (U)		
9/19/2019				2.06	0.537
2/5/2020					-0.137 (U)
2/7/2020	0.797	0.244 (U)	0.2 (U)	1.66	
3/18/2020	0.437	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	0.276 (U)	0.643	1.18		0.0587 (U)
2/3/2021			0.684	2	
2/4/2021	0.727	0.438 (U)			0.353 (U)
3/11/2021	0.942	0.247 (U)	0.286 (U)	2.38	
3/12/2021					0.831
8/25/2021	0.518	0.565			
8/26/2021			0.796	2.87	0.681
Mean	1.352	0.3279	0.3653	1.685	0.3009
Std. Dev.	0.9154	0.3641	0.3139	0.614	0.2404
Upper Lim.	1.872	0.5347	0.5435	2.033	0.4374
Lower Lim.	0.8325	0.1211	0.187	1.336	0.1644

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.206					0.779
5/19/2016		0.039 (J)	0.12 (J)	0.384		
7/19/2016						0.97
7/20/2016	0.23	<0.1	0.11 (J)	0.34		
9/14/2016	0.17 (J)	<0.1	0.095 (J)	0.31		0.89
11/10/2016				0.26		0.88
11/11/2016	0.14 (J)	<0.1	<0.1			
1/24/2017						0.92
1/27/2017		<0.1	<0.1	0.28		
2/6/2017	0.15 (J)					
2/8/2017					<0.1	
2/23/2017					<0.1	
3/14/2017						0.77
3/15/2017	0.16 (J)	<0.1	<0.1	0.3		
3/17/2017					<0.1	
4/11/2017					<0.1	
4/25/2017						0.95
4/26/2017	0.17 (J)	<0.1	<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
8/10/2017	0.2	<0.1	0.11 (J)			
10/11/2017					<0.1	0.88
10/12/2017	0.14 (J)	<0.1	0.091 (J)	0.28		
3/29/2018		<0.1	0.089 (J)	0.27	<0.1	
3/30/2018	0.13 (J)					0.79
6/14/2018	0.15 (J)	<0.1	0.1 (J)	0.27	<0.1	0.79
10/3/2018						0.79
10/4/2018	0.18 (J)	<0.1	0.12 (J)	0.23	<0.1	
2/27/2019	0.21	0.047 (J)	0.06 (J)	0.25	<0.1	0.81
4/3/2019		0.048 (J)	0.084 (J)	0.24	0.048 (J)	
4/4/2019	0.13 (J)					0.78
9/18/2019				0.22	0.035 (J)	0.81
9/19/2019	0.13 (J)	0.037 (J)	0.093 (J)			
2/5/2020	0.14	0.045 (J)	0.098 (J)	0.2	0.04 (J)	
2/7/2020						0.79
3/18/2020	0.052 (J)	<0.1	0.033 (J)			0.71
3/19/2020				0.15	<0.1	
9/23/2020	0.09 (J)		0.064 (J)			0.63
9/24/2020		0.18		<0.1	0.028 (J)	
2/3/2021		0.027 (J)	0.082 (J)			
2/4/2021	0.12			0.16	0.033 (J)	0.69
3/11/2021	0.15			0.18	0.04 (J)	
3/12/2021		0.044 (J)	0.096 (J)			0.88
8/25/2021		0.056 (J)	0.14	0.2	0.071 (J)	
8/26/2021	0.16					0.77
Mean	0.1528	0.05348	0.085	0.2488	0.04738	0.8185
Std. Dev.	0.04061	0.02964	0.0284	0.076	0.008657	0.0867
Upper Lim.	0.1752	0.056	0.1009	0.2907	0.05	0.8664
Lower Lim.	0.1304	0.045	0.07516	0.2068	0.04	0.7707

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.1 (J)	0.121 (J)			
5/19/2016				0.304	1.58
7/19/2016	0.14 (J)				
7/20/2016		0.16 (J)		0.27	2
9/14/2016	0.18 (J)	0.19 (J)			1.8
9/15/2016				0.24	
11/10/2016	0.11 (J)	0.15 (J)			
11/11/2016			0.32		
11/14/2016				0.2	
1/20/2017		0.18 (J)			
1/24/2017	0.15 (J)				
2/6/2017			0.45	0.27	
2/9/2017					1.3
3/14/2017		0.11 (J)			
3/15/2017	0.1 (J)		0.37	0.25	1.3
4/11/2017			0.37		1.4
4/25/2017	0.13 (J)	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	0.18 (J)	0.19 (J)			
8/10/2017			0.42	0.37	1.6
10/11/2017	<0.1	0.14 (J)			
10/12/2017			0.36	0.35	1.5
3/29/2018	0.13 (J)		0.34	0.36	1.4
3/30/2018		0.095 (J)			
6/14/2018	<0.1	0.11 (J)	0.35	0.56	1.4
10/4/2018	0.85 (J)	0.11 (J)	0.35	0.27	1.4
2/26/2019		0.068 (J)			
2/27/2019	0.47			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	0.08 (J)	0.087 (J)			
9/18/2019	0.058 (J)	0.066 (J)	0.32		
9/19/2019				0.42	1.3
2/5/2020					1.3
2/7/2020	0.072 (J)	0.079 (J)	0.35	0.25	
3/18/2020	0.084 (J)	<0.1			
3/19/2020				0.057 (J)	1
5/4/2020			0.36		
9/22/2020				0.14	
9/23/2020	0.049 (J)	0.05 (J)	0.25		0.82
2/3/2021			0.3	0.15	
2/4/2021	0.052 (J)	0.064 (J)			0.91
3/11/2021	0.061 (J)	0.05 (J)	0.31	0.16	
3/12/2021					0.98
8/25/2021	0.099 (J)	0.093 (J)			
8/26/2021			0.38	0.21	1
Mean	0.1521	0.1092	0.35	0.2712	1.342
Std. Dev.	0.1838	0.04573	0.04593	0.1289	0.2886
Upper Lim.	0.15	0.1344	0.3753	0.3423	1.502

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
Lower Lim.	0.058	0.08396	0.3247	0.2001	1.183

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	<0.001				<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	<0.001			
9/14/2016	<0.001	<0.001	0.00055 (J)		<0.001	<0.001
11/10/2016			0.00047 (J)		<0.001	<0.001
11/11/2016	<0.001	<0.001				
1/24/2017					<0.001	<0.001
1/27/2017		<0.001	<0.001			
2/6/2017	<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			<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	<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	<0.001				
3/29/2018		<0.001	<0.001	<0.001		<0.001
3/30/2018	<0.001				<0.001	
2/27/2019	0.00023 (J)	0.00058 (J)	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	<0.001
9/18/2019			0.00045 (J)	<0.001	<0.001	<0.001
9/19/2019	0.00041 (J)	<0.001				
2/5/2020	0.00016 (J)	<0.001	0.00045 (J)	<0.001		
2/7/2020					<0.001	<0.001
3/18/2020	0.00021 (J)	<0.001			<0.001	<0.001
3/19/2020			0.0006 (J)	0.00017 (J)		
9/23/2020	0.00013 (J)				<0.001	<0.001
9/24/2020		0.00037 (J)	<0.001	0.00018 (J)		
2/3/2021		<0.001				
2/4/2021	0.00019 (J)		0.00038 (J)	0.00013 (J)	0.0003 (J)	0.00013 (J)
3/11/2021	0.00032 (J)		0.00075 (J)	0.00031 (J)		<0.001
3/12/2021		0.00038 (J)			<0.001	
8/25/2021		0.00023 (J)	0.00025 (J)	0.00041 (J)		<0.001
8/26/2021	0.00026 (J)				<0.001	
Mean	0.0006617	0.0008644	0.000725	0.0007889	0.0009611	0.0009039
Std. Dev.	0.0003936	0.0002679	0.0002744	0.0003548	0.000165	0.0002797
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00021	0.00058	0.00045	0.00031	0.0003	0.00014

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	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		
11/14/2016		<0.001	
1/20/2017	<0.001		
2/6/2017		<0.001	
2/9/2017			<0.001
3/14/2017	<0.001		
3/15/2017		<0.001	<0.001
4/11/2017			<0.001
4/25/2017	<0.001		
4/26/2017		<0.001	<0.001
8/9/2017	<0.001		
8/10/2017		<0.001	<0.001
3/29/2018		<0.001	<0.001
3/30/2018	<0.001		
2/26/2019	0.00033 (J)		
2/27/2019		0.00017 (J)	
2/28/2019			0.00014 (J)
4/3/2019		<0.001	<0.001
4/4/2019	<0.001		
9/18/2019	<0.001		
9/19/2019		<0.001	<0.001
2/5/2020			<0.001
2/7/2020	<0.001	<0.001	
3/18/2020	0.0002 (J)		
3/19/2020		0.00016 (J)	<0.001
9/22/2020		0.00013 (J)	
9/23/2020	<0.001		<0.001
2/3/2021		0.00013 (J)	
2/4/2021	<0.001		<0.001
3/11/2021	<0.001	<0.001	
3/12/2021			<0.001
8/25/2021	<0.001		
8/26/2021		0.00014 (J)	<0.001
Mean	0.0009183	0.0007628	0.0009522
Std. Dev.	0.0002387	0.0003937	0.0002027
Upper Lim.	0.001	0.001	0.001
Lower Lim.	0.00033	0.00016	0.00014

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.032					<0.005
5/19/2016		<0.005	<0.005	<0.005		
7/19/2016						0.0036 (J)
7/20/2016	0.021	<0.005	0.0057	<0.005		
9/14/2016	0.02	<0.005	0.0077	<0.005		<0.005
11/10/2016				0.0038 (J)		0.0064
11/11/2016	0.017	<0.005	0.007			
1/24/2017						0.0075
1/27/2017		<0.005	0.0074	<0.005		
2/6/2017	0.016					
2/8/2017					0.0039 (J)	
2/23/2017					<0.005	
3/14/2017						0.0057
3/15/2017	0.014	<0.005	0.0077	<0.005		
3/17/2017					<0.005	
4/11/2017					<0.005	
4/25/2017						0.0059
4/26/2017	0.011	<0.005	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
8/10/2017	0.011	<0.005	0.0064			
3/29/2018		0.0018 (J)	0.01	0.0022 (J)	0.0025 (J)	
3/30/2018	0.016					0.0077
6/14/2018	0.0084	0.0011 (J)	0.0062	0.0018 (J)	0.0018 (J)	0.0052
10/3/2018						0.006
10/4/2018	0.0085	0.0014 (J)	0.0066	0.0025 (J)	0.0016 (J)	
2/27/2019	0.0068	<0.005	0.0068	<0.005	<0.005	0.0055
4/3/2019		<0.005	0.0075	<0.005	0.0015 (J)	
4/4/2019	0.0059					0.0054
9/18/2019				<0.005	<0.005	0.0054
9/19/2019	0.0075	<0.005	0.0067			
2/5/2020	0.0061	<0.005	0.0063	<0.005	<0.005	
2/7/2020						0.0068
3/18/2020	0.0071	<0.005	0.0081			0.0086
3/19/2020				<0.005	<0.005	
9/23/2020	0.0054		0.007			0.0071
9/24/2020		<0.005		<0.005	<0.005	
2/3/2021		<0.005	0.0075			
2/4/2021	0.0049 (J)			<0.005	<0.005	0.0086
3/11/2021	0.0051			0.0037 (J)	0.0035 (J)	
3/12/2021		<0.005	0.0089			0.0096
8/25/2021		<0.005	0.0061	<0.005	<0.005	
8/26/2021	0.0044 (J)					0.0059
Mean	0.01141	0.004465	0.006785	0.00445	0.004155	0.006385
Std. Dev.	0.007141	0.001312	0.001742	0.001062	0.001305	0.001465
Upper Lim.	0.01439	0.005	0.00777	0.005	0.005	0.007217
Lower Lim.	0.007231	0.0018	0.006121	0.0038	0.0033	0.005553

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.005	<0.005			
5/19/2016				0.0215	0.0335
7/19/2016	0.0091				
7/20/2016		0.0042 (J)		0.026	0.024
9/14/2016	0.012	0.0058			0.039
9/15/2016				0.057	
11/10/2016	0.013	0.0066			
11/11/2016			0.045		
11/14/2016				0.017	
1/20/2017		0.0044 (J)			
1/24/2017	0.011				
2/6/2017			0.05	0.012	
2/9/2017					0.04
3/14/2017		0.0048 (J)			
3/15/2017	0.01		0.052	0.014	0.035
4/11/2017			0.048		0.034
4/25/2017	0.0081	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	0.013	0.0067			
8/10/2017			0.056	0.013	0.038
3/29/2018	0.015		0.072	0.018	0.048
3/30/2018		0.0067			
6/14/2018	0.009	0.0046 (J)	0.048	0.015	0.034
10/4/2018	0.012	0.005	0.062	0.013	0.039
2/26/2019		0.0063			
2/27/2019	0.0075			0.014	
2/28/2019			0.045		0.037
4/2/2019			0.052		
4/3/2019				0.015	0.035
4/4/2019	0.0077	0.0042 (J)			
9/18/2019	0.0056	0.0047 (J)	0.052		
9/19/2019				0.014	0.036
2/5/2020					0.034
2/7/2020	0.0053	0.0045 (J)	0.044	0.014	
3/18/2020	0.0057	0.0054			
3/19/2020				0.015	0.039
5/4/2020			0.049		
9/22/2020				0.013	
9/23/2020	0.0059	0.0056	0.056		0.033
2/3/2021			0.06	0.014	
2/4/2021	0.0051	0.0047 (J)			0.035
3/11/2021	0.005	0.0049 (J)	0.051	0.013	
3/12/2021					0.034
8/25/2021	0.0046 (J)	0.0048 (J)			
8/26/2021			0.057	0.013	0.03
Mean	0.00848	0.00519	0.05175	0.01703	0.03533
Std. Dev.	0.003266	0.0008207	0.007129	0.01007	0.004846
Upper Lim.	0.01033	0.005656	0.0558	0.017	0.03808
Lower Lim.	0.006625	0.004724	0.0477	0.013	0.03257

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.015					0.0153
5/19/2016		<0.015	<0.015	0.00491 (J)		
7/19/2016						0.0093 (J)
7/20/2016	<0.015	<0.015	0.00095 (J)	0.0025 (J)		
9/14/2016	0.00091 (J)	<0.015	0.0009 (J)	0.0028 (J)		0.012 (J)
11/10/2016				0.0016 (J)		0.0065 (J)
11/11/2016	<0.015	<0.015	<0.015			
1/24/2017						0.0049 (J)
1/27/2017		<0.015	<0.015	0.0023 (J)		
2/6/2017	<0.015					
2/8/2017					<0.015	
2/23/2017					<0.015	
3/14/2017						0.0034 (J)
3/15/2017	<0.015	<0.015	<0.015	0.0022 (J)		
3/17/2017					<0.015	
4/11/2017					<0.015	
4/25/2017						0.004 (J)
4/26/2017	<0.015	<0.015	<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)
8/10/2017	0.00093 (J)	0.0011 (J)	0.0046 (J)			
3/29/2018		<0.015	<0.015	0.0028 (J)	<0.015	
3/30/2018	<0.015					0.0049 (J)
6/14/2018	<0.015	<0.015	<0.015	0.0018 (J)	<0.015	0.0056 (J)
10/3/2018						0.0041 (J)
10/4/2018	<0.015	<0.015	<0.015	<0.015	<0.015	
2/27/2019	<0.015	<0.015	0.00063 (J)	0.0019 (J)	<0.015	0.0061
4/3/2019		<0.015	<0.015	<0.015	<0.015	
4/4/2019	<0.015					0.0039 (J)
9/18/2019				0.0021 (J)	<0.015	0.0052
9/19/2019	<0.015	<0.015	0.00073 (J)			
2/5/2020	<0.015	<0.015	<0.015	0.0012 (J)	<0.015	
2/7/2020						0.0024 (J)
3/18/2020	<0.015	<0.015	<0.015			0.002 (J)
3/19/2020				0.0018 (J)	<0.015	
9/23/2020	<0.015		<0.015			0.0031 (J)
9/24/2020		0.0017 (J)		<0.015	<0.015	
2/3/2021		<0.015	<0.015			
2/4/2021	<0.015			0.0012 (J)	<0.015	0.0022 (J)
3/11/2021	<0.015			0.0013 (J)	<0.015	
3/12/2021		<0.015	0.00062 (J)			0.0019 (J)
8/25/2021		<0.015	<0.015	0.00092 (J)	<0.015	
8/26/2021	<0.015					0.0029 (J)
Mean	0.01359	0.01364	0.01092	0.004051	0.0143	0.005195
Std. Dev.	0.004334	0.004187	0.006442	0.004795	0.00313	0.003435
Upper Lim.	0.015	0.015	0.015	0.00491	0.015	0.006568
Lower Lim.	0.00093	0.0017	0.00095	0.0016	0.001	0.003266

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-9
5/18/2016	0.00526 (J)		
5/19/2016			0.00762 (J)
7/20/2016	0.0066 (J)		0.0084 (J)
9/14/2016	0.0081 (J)		0.0071 (J)
11/10/2016	0.0076 (J)		
11/11/2016		<0.015	
1/20/2017	0.0094 (J)		
2/6/2017		0.001 (J)	
2/9/2017			0.018
3/14/2017	0.0044 (J)		
3/15/2017		<0.015	0.0057 (J)
4/11/2017		<0.015	0.0047 (J)
4/25/2017	0.0074 (J)		
4/26/2017		<0.015	0.004 (J)
6/7/2017		0.0015 (J)	
7/11/2017		<0.015	
8/9/2017	0.0066 (J)		
8/10/2017		0.0016 (J)	0.0046 (J)
3/29/2018		0.0012 (J)	0.0048 (J)
3/30/2018	0.0024 (J)		
6/14/2018	0.0026 (J)	0.0014 (J)	0.0046 (J)
10/4/2018	0.00085 (J)	<0.015	0.003 (J)
2/26/2019	0.0032 (J)		
2/28/2019		0.0013 (J)	0.0053
4/2/2019		<0.015	
4/3/2019			0.0026 (J)
4/4/2019	0.002 (J)		
9/18/2019	0.0026 (J)	0.0011 (J)	
9/19/2019			0.0048 (J)
2/5/2020			0.0044 (J)
2/7/2020	0.0025 (J)	0.0014 (J)	
3/18/2020	0.0024 (J)		
3/19/2020			0.0042 (J)
5/4/2020		0.0013 (J)	
9/23/2020	0.0027 (J)	0.0013 (J)	0.0027 (J)
2/3/2021		0.0013 (J)	
2/4/2021	0.0025 (J)		0.003 (J)
3/11/2021	0.0022 (J)	0.0012 (J)	
3/12/2021			0.003 (J)
8/25/2021	0.0022 (J)		
8/26/2021		0.0011 (J)	0.0028 (J)
Mean	0.004176	0.006085	0.005266
Std. Dev.	0.002528	0.006713	0.003413
Upper Lim.	0.005288	0.015	0.006065
Lower Lim.	0.002606	0.0012	0.003563

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	<0.005				<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	<0.005			
9/14/2016	<0.005	<0.005	<0.005		<0.005	0.0091
11/10/2016					<0.005	0.0056
11/11/2016	<0.005	<0.005	<0.005			
1/24/2017					<0.005	0.012
1/27/2017		<0.005	<0.005			
2/6/2017	<0.005					
2/8/2017				<0.005		
2/23/2017				<0.005		
3/14/2017					<0.005	
3/15/2017	<0.005	<0.005	<0.005			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	<0.005		
5/17/2017				<0.005		
6/7/2017				<0.005		
7/11/2017				<0.005		
8/9/2017					<0.005	0.016
8/10/2017	0.00031 (J)	0.00049 (J)	0.0021			
3/29/2018		<0.005	<0.005	0.0003 (J)		0.016
3/30/2018	<0.005				<0.005	
6/14/2018	<0.005	<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	<0.005		0.013
2/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	0.0081
4/3/2019		<0.005	<0.005	<0.005		
4/4/2019	<0.005				<0.005	0.0091
9/18/2019				<0.005	<0.005	0.0044 (J)
9/19/2019	<0.005	<0.005	<0.005			
2/5/2020	<0.005	<0.005	<0.005	<0.005		
2/7/2020					<0.005	0.0036 (J)
3/18/2020	<0.005	<0.005	<0.005		<0.005	0.0046 (J)
3/19/2020				<0.005		
9/23/2020	<0.005		<0.005		<0.005	0.0028 (J)
9/24/2020		<0.005		<0.005		
2/3/2021		<0.005	<0.005			
2/4/2021	<0.005			<0.005	<0.005	0.0023 (J)
3/11/2021	<0.005			<0.005		0.0023 (J)
3/12/2021		<0.005	<0.005		<0.005	
8/25/2021		<0.005	<0.005	<0.005		0.0019 (J)
8/26/2021	<0.005				<0.005	
Mean	0.004765	0.004774	0.004855	0.004765	0.004775	0.008133
Std. Dev.	0.001049	0.001008	0.0006485	0.001051	0.001006	0.004632
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.01076
Lower Lim.	0.00031	0.00049	0.0021	0.0003	0.0005	0.005502

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-19	WGWC-8	WGWC-9
5/19/2016		0.00518	0.00228
7/20/2016		0.0038	0.0016
9/14/2016			0.0024
9/15/2016		0.0034	
11/11/2016	<0.005		
11/14/2016		0.0033	
2/6/2017	<0.005	0.0033	
2/9/2017			0.0023
3/15/2017	<0.005	0.003	0.0031
4/11/2017	<0.005		0.0023
4/26/2017	<0.005	0.0032	0.0019
6/7/2017	<0.005		
7/11/2017	<0.005		
8/10/2017	0.00036 (J)	0.0031	0.0021
3/29/2018	<0.005	0.0034	0.0021
6/14/2018	<0.005	0.0031	0.0025
10/4/2018	<0.005	0.0033	0.002
2/27/2019		0.0035	
2/28/2019	<0.005		0.0027
4/2/2019	<0.005		
4/3/2019		0.0031	0.0019
9/18/2019	<0.005		
9/19/2019		0.0021 (J)	0.0026 (J)
2/5/2020			0.0033 (J)
2/7/2020	<0.005	0.0048 (J)	
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		0.0029 (J)
2/3/2021	<0.005	0.0036 (J)	
2/4/2021			0.003 (J)
3/11/2021	<0.005	0.0038 (J)	
3/12/2021			0.0034 (J)
8/26/2021	<0.005	0.0037 (J)	0.0028 (J)
Mean	0.004768	0.003514	0.002524
Std. Dev.	0.001038	0.0006431	0.0005245
Upper Lim.	0.005	0.003879	0.002822
Lower Lim.	0.00036	0.003149	0.002226

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/18/2021 10:49 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-14A	WGWC-16	WGWC-19
5/18/2016	<0.001			<0.001	
5/19/2016		<0.001			
7/19/2016				8.5E-05 (J)	
7/20/2016	<0.001	<0.001			
9/14/2016	<0.001	<0.001		0.00017 (J)	
11/10/2016				0.00017 (J)	
11/11/2016	<0.001	<0.001			<0.001
1/24/2017				0.00023 (J)	
1/27/2017		<0.001			
2/6/2017	<0.001				<0.001
2/8/2017			0.00011 (J)		
2/23/2017			0.00012 (J)		
3/15/2017	<0.001	<0.001		0.00021 (J)	<0.001
3/17/2017			<0.001		
4/11/2017			<0.001		<0.001
4/25/2017				0.00024 (J)	
4/26/2017	<0.001	<0.001	<0.001		<0.001
5/17/2017			<0.001		
6/7/2017			<0.001		<0.001
7/11/2017			<0.001		<0.001
8/9/2017				0.0002 (J)	
8/10/2017	<0.001	<0.001			<0.001
3/29/2018		<0.001	0.0002 (J)	0.00019 (J)	<0.001
3/30/2018	8.5E-05 (J)				
6/14/2018	<0.001	<0.001	0.00014 (J)	0.00017 (J)	<0.001
10/4/2018	<0.001	<0.001	0.00013 (J)	0.00015 (J)	<0.001
2/27/2019	<0.001	<0.001	0.00016 (J)	0.00015 (J)	
2/28/2019					<0.001
4/2/2019					<0.001
4/3/2019		<0.001	0.00012 (J)		
4/4/2019	<0.001			9.5E-05 (J)	
9/18/2019			<0.001	<0.001	<0.001
9/19/2019	<0.001	<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			0.00017 (J)		
5/4/2020					<0.001
9/23/2020	<0.001			<0.001	<0.001
9/24/2020		<0.001	<0.001		
2/3/2021		0.00016 (J)			0.00018 (J)
2/4/2021	<0.001		0.00021 (J)	<0.001	
3/11/2021	<0.001		0.00019 (J)	<0.001	<0.001
3/12/2021		<0.001			
8/25/2021		<0.001	<0.001	<0.001	
8/26/2021	<0.001				<0.001
Mean	0.0009543	0.000958	0.0005385	0.000503	0.000959
Std. Dev.	0.0002046	0.0001878	0.0004292	0.0004179	0.0001834
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	8.5E-05	0.00016	0.00014	0.00017	0.00018

APPENDIX E

February 2021 Alternate Source Demonstration (ASD) Addendum Plant Wansley Ash Pond 1 (AP-1) Georgia Power Company



Prepared for

Georgia Power Company
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Atlanta, Georgia 30308

**ALTERNATE SOURCE
DEMONSTRATION ADDENDUM—
LITHIUM
PLANT WANSLEY ASH POND 1 (AP-1)**

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ALTERNATE SOURCE DEMONSTRATION ADDENDUM – LITHIUM

Plant Wansley
Ash Pond 1 (AP-1)

February 26, 2021

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Project Manager

Certification Statement

**Alternate Source Demonstration Addendum – Lithium
Plant Wansley
Ash Pond 1 (AP-1)
February 26, 2021**

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.



Adria Lee Reimer

Seal and Signature

02/26/2021

Date

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LIST OF ACRONYMS

AP	Ash Pond
ASD	Alternate Source Demonstration
CCR	Coal Combustion Residual
CFR	Code of Federal Regulations
ft bgs	feet below ground surface
NAVD88	North American Vertical Datum of 1988
GA EPD	Environmental Protection Division
GWPS	Groundwater Protection Standard
K_d	distribution coefficient
MCL	Maximum Contaminant Level
mg/kg	milligram per kilogram
mg/L	milligram per liter
PWR	partially weathered rock
SEP	sequential extraction procedure
s.u.	standard units
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 (Geosyntec, 2021). 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 ⁽¹⁾	Compliance Well			
		WGWC-8	WGWC-9	WGWC-10	WGWC-19
June 2018 ⁽²⁾	Federal				X
	State	X	X	X	X
September 2018 ⁽²⁾	Federal				X
	State	X	X	X	X
April 2019 ⁽³⁾	Federal				X
	State	X	X	X	X
September 2019 ⁽³⁾	Federal				X
	State	X	X		X
March 2020 ⁽⁴⁾	Federal				X
	State	X	X		X
September 2020 ⁽⁴⁾	Federal				X
	State	X	X		X

Notes:

(1) A state statistically significant level (SSL) related constituent is determined by comparing the confidence intervals developed to either the constituent's maximum contaminant Level (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 if background is higher than either the MCL or RSL.

(2) 2018 Annual Groundwater Monitoring and Corrective Action Report (ACC, 2019)

(3) 2019 Annual Groundwater Monitoring and Corrective Action Report (ACC, 2020)

(4) 2020 Annual Groundwater Monitoring and Corrective Action Report (Geosyntec, 2021)

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. The source of lithium in the groundwater at these locations is naturally derived from measurable lithium present in subsurface rock units southeast and south of AP-1 where wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 are

installed (**Figure 1**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 (**Figure 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 indicated naturally occurring lithium concentrations in the quartzite bedrock unit to be 30 milligrams per kilogram (mg/kg) and lithium concentrations as high as 116 mg/kg in the schist-amphibolite bedrock unit.
- 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 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.

¹ Geologic map revised from those presented in the *Geologic and Hydrogeologic Report* (Golder, 2018), the 2018 ASD, and the *Hydrogeologic Assessment Report Revision 01 [HAR Rev. 01]* (Geosyntec, 2019), to reflect geologic data collected through December 2020, and as noted in Section 2.2.

- 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 correlation between lithium and boron at WGWC-9, and that there is a statistically significant negative correlation between lithium and boron at WGWC-8, indicating that these constituents are likely 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 (core sample of quartzite bedrock unit at location WGWC-8 and core sample of Long Island Gneiss bedrock unit at PB-3) to 130 mg/kg (core sample of schist-amphibolite bedrock unit at PB-7, near WGWC-10).
- 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 recalcitrant fractions that will liberate lithium through mineral weathering. Saprolite and partially weathered rock (PWR) derived through the weathering of the parent bedrock contains similar minerals and/or constituents as the parent bedrock. During the weathering process and as groundwater flows through saprolite, PWR, and bedrock fractures, the minerals/constituents can be liberated and partially dissolve into groundwater.
- 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. The area southeast and south of AP-1 is underlain primarily by three lithologic units; (i) residual soils and

saprolite, (ii) partially weathered rock (PWR), and (iii) metamorphic crystalline bedrock. Geologic investigations and mapping performed by Golder Associates (Golder) in 2015 indicates that bedrock units present southeast and south of AP-1 consist primarily of schist, amphibolite, gneiss, and quartzite. Characteristics of the various bedrock units were described by Golder in the *Geologic and Hydrogeologic Report* (Golder, 2018). The bedrock units at the Site steeply dip to the east-southeast and are marked by three mapped faults (Golder, 2018).

A *Hydrogeologic Assessment Report Revision 01* (HAR Rev. 01) prepared for AP-1 by Geosyntec (2019) provided an updated geologic map based on data collected during geologic investigations completed between 2016 and 2017. Additional geologic data collected by Geosyntec during borehole drilling and piezometer installation activities completed between September and November 2020 (Geosyntec, 2021) have been used to refine the site-specific geologic map. The locations of monitoring wells and piezometers relative to the geologic units underlying AP-1 based on data collected through November 2020 are shown on **Figure 1**.

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 between 2017 and 2021, and the *HAR Rev. 01* (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 related or from a common influence, while non-significant low correlations or negative r values indicate that the occurrence of two parameters are unrelated or potentially not originating from the same source. Results indicated that while boron had a positive correlation with some other Appendix III constituents at individual wells, lithium either did not significantly correlate with boron (WGWC-9) or showed a negative correlation between these two constituents (WGWC-8), suggesting potentially different sources for boron and lithium in groundwater. Further, due to insufficient detections of boron at WGWC-10 (a location which no longer constitutes an SSL for lithium) and at WGWC-19 (the location with the highest lithium concentrations in groundwater), no correlation analyses could be completed for boron.

This ASD Addendum updated the correlation evaluation to incorporate additional groundwater data collected after submittal of the 2018 ASD. 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 with the exception of a positive correlation with pH. This suggests a common source of boron, calcium, and TDS, but a different source for lithium and pH in this well. The explanation for the positive correlation between pH and lithium in this well is unclear, as lithium shows weak sorption that slightly increases with increasing pH (Robinson et al., 2018), which should result in less lithium in groundwater as pH increases, not more as the positive correlation would suggest.

- WGWC-9: Boron does not statistically correlate with lithium but does show statistically significant positive correlations with calcium, chloride, 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, chloride, 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, sulfate, and pH. This suggests a common source for these constituents in this well. The higher pH values (i.e., > 8.5 s.u.) measured in this well during the early phase of the monitoring program in 2016 might indicate lingering well installation effects that appear to correlate strongly with lithium concentrations. Given that boron concentrations were mostly non-detect and/or consistent with background conditions, concentrations of fluoride and sulfate were very low (and much lower compared to other wells), pH has shown a decreasing trend since 2016, and lithium has shown a decreasing trend since 2016 such that this constituent is no longer identified as an SSL at this well, this common source of constituents in this well is likely derived from weathering/dissolution of the natural formation and well installation effects rather than AP-1.
- 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 does not show a statistically significant correlation with Appendix III constituents. The mostly non-detect concentrations of boron and lack of statistically significant correlations between lithium and Appendix III constituents suggest that AP-1 is not the source of lithium at this location.

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. While pH was included in this correlation analysis, pH is not as useful for assessing lithium mobilization or immobilization as it is for other trace elements as lithium does not respond to changes in pH to the extent that many other trace elements do. 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 from locations PB-8 and PB-9, and the button schist unit² from WGWC-19 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. Rock core samples from PB-3, PB-4, PB-7, PB-8, WGWC-8, and WGWC-19 were available. Cores from the following locations were selected for laboratory analyses:

- PB-3 and PB-4 are located in proximity to WGWC-9 (**Figure 1** and **Figure 2**) and cores were available at each location from the approximate screen interval of WGWC-9. Boring logs for PB-3 and PB-4 indicate quartzite present from just below ground surface to approximately 40 feet below ground surface (ft bgs) at PB-3 and from approximately 15 ft bgs to approximately 50 ft bgs at PB-4. Gneiss was encountered underlying the quartzite unit at an elevation of approximately 765 feet relative to the North American Vertical Datum of 1988 (ft NAVD88) at PB-3 and 759 ft NAVD88 at PB-4. WGWC-9 is screened from approximately 761 to 751 ft NAVD88 in PWR, indicating that the weathered rock unit within the WGWC-9 well screen interval consists of weathered gneiss of the same unit encountered at PB-3 and PB-4.
- PB-7 and PB-8 are located in proximity to WGWC-10 (**Figure 1** and **Figure 2**) and cores were available at each location from the approximate screen interval of WGWC-10. Samples representing schist of the schist-amphibolite bedrock unit

² The 2018 ASD identified rock core samples collected at WGWC-19 between depths of 77 and 92 feet below ground surface (ft bgs) as representative of the schist-amphibolite bedrock unit. Review of the *Geologic and Hydrogeologic Report* (Golder, 2018) and the boring logs for WGWC-19, WAMW-1, and WAMW-2, indicates the core samples consisted of graywacke (samples collected between 77 and 86 ft bgs) and micaceous schist (samples collected between 88 and 92 ft bgs). The rock core descriptions and location of WGWC-19 are consistent with the button schist lithologic bedrock unit described in the *Geologic and Hydrogeologic Report* (Golder, 2018).

were collected. WGWC-10 is screened from approximately 674 to 664 ft NAVD88 in saprolite and PWR derived from the schist-amphibolite unit.

- Rock core samples from the approximate well screen interval of WGWC-8 were available.
- Rock core samples from the approximate well screen interval of WGWC-19 were available.

Boring logs for locations where rock cores were collected as part of the 2018 ASD and ASD Addendum evaluations, and boring logs for WGWC-9, WGWC-10, WAMW-1 and WAMW-2, 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). This K_d value is consistent with the value of 245 L/kg cited in Robinson et al. (2018) for geogenic lithium. 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 0.0054 mg/L in WGWC-10 to 0.056 mg/L in WGWC-19 during the September 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 80 in boring PB-7. This suggests that the range of 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 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 2021 Semiannual Groundwater Monitoring and Corrective Action Report due to GA EPD in August 2021.

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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	pH
5/19/2016	1.4	0.0215	31.4	17.5	0.304	146	311	5.99
7/20/2016	1.4	0.0260	28	19	0.27	150	290	6.19
9/15/2016	1.2	0.0570	27	19	0.24	140	270	6.38
11/14/2016	1.3	0.0170	32	25	0.2	160	320	5.7
2/6/2017	1.8	0.0120	41	33	0.27	180	330	5.66
3/15/2017	1.7	0.0140	38	38	0.25	170	370	5.77
4/26/2017	2	0.0091	39	42	0.31	180	380	5.39
8/10/2017	1.8	0.0130	53	48	0.37	180	380	5.59
10/12/2017	1.8	0.0180	60	60	0.35	180	450	5.46
6/14/2018	1.7	0.0150	52	58	0.56	170	410	5.76
10/4/2018	1.9	0.0130	65	300	0.27	780	520	5.39
4/3/2019	1.7	0.0150	61	70	0.5	180	430	5.55
9/19/2019	1.7	0.0140	57	70	0.42	190	440	5.39
3/19/2020	2.2	0.0150	79	98	0.057	200	540	6.43
9/22/2020	2.5	0.0130	81	100	0.14	200	600	5.17
Pearson's Correlation Coefficient (r) - Boron	---	-0.60	0.84	0.44	-0.27	0.23	0.87	-0.47
p-value		0.0181	0.0009	0.1007	0.3304	0.4096	0.0003	0.0771
Pearson's Correlation Coefficient (r) - Lithium	---	---	-0.47	-0.28	-0.13	-0.20	-0.50	0.63
p-value			0.0771	0.3121	0.6442	0.4748	0.0577	0.0118

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	pH
5/19/2016	0.31	0.0335	8.53	1.46	1.58	35.9	134	6.31
7/20/2016	0.25	0.024	8.2	1.5	2.0	37	120	6.35
9/14/2016	0.30	0.039	8.8	1.4	1.8	39	140	6.33
2/9/2017	0.61	0.04	10	1.5	1.3	60	180	6.03
3/15/2017	0.42	0.035	8.6	1.3	1.3	44	160	5.99
4/11/2017	0.37	0.034	8.6	1.2	1.4	36	120	6.04
4/26/2017	0.38	0.029	7.1	1.2	1.5	37	140	6.03
8/10/2017	0.29	0.038	7.5	1.3	1.6	38	130	5.86
10/12/2017	0.36	0.048	8.2	1.4	1.5	37	120	6.09
6/14/2018	0.39	0.034	7.5	1.2	1.4	37	120	6.47
10/4/2018	0.37	0.039	8.0	1.2	1.4	38	140	6.17
4/3/2019	0.35	0.035	7.2	2.0	1.3	41	120	6.1
9/19/2019	0.39	0.036	8.1	1.5	1.3	42	130	6.38
3/19/2020	0.55	0.039	9.3	2.1	1.0	45	160	6.64
9/23/2020	0.68	0.033	10	2.4	0.8	54	150	5.8
Pearson's Correlation Coefficient (r) - Boron	---	0.18	0.73	0.61	-0.85	0.87	0.71	-0.20
p-value		0.5209	0.0020	0.0157	0.0001	2.50E-05	0.0030	0.4748
Pearson's Correlation Coefficient (r) - Lithium	---	---	0.20	-0.02	-0.24	0.16	0.19	-0.04
p-value			0.4748	0.9436	0.3889	0.5689	0.4976	0.8874

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	pH
5/18/2016	ND	0.0320	7.17	1.45	0.206	2.84	70	8.96
7/20/2016	ND	0.0210	7	1.6	0.23	2.8	42	8.57
9/14/2016	ND	0.0200	7.7	1.5	0.17	2.8	40	7.22
11/11/2016	ND	0.0170	8.2	1.5	0.14	2.6	72	6.96
2/6/2017	ND	0.0160	9.1	1.4	0.15	2.7	24	6.93
3/15/2017	0.032	0.0140	9	1.4	0.16	2.7	78	6.82
4/26/2017	ND	0.0110	8.1	1.3	0.17	2.5	48	6.73
8/10/2017	ND	0.0110	8.1	1.4	0.2	2.2	38	6.66
10/12/2017	ND	0.0160	8.6	1.3	0.14	1.9	72	6.67
6/14/2018	ND	0.0084	7.7	1.3	0.15	2	40	6.56
10/4/2018	ND	0.0085	8.5	1.3	0.18	1.9	60	6.40
4/4/2019	0.024	0.0059	7.9	1.4	0.13	2.2	30	6.46
9/19/2019	ND	0.0075	7.5	1.5	0.13	2.1	52	6.45
3/18/2020	0.049	0.0071	7.5	1.5	0.052	2.1	58	6.40
9/23/2020	ND	0.0054	7.7	1.3	0.090	1.8	50	6.14
Pearson's Correlation Coefficient (r) - Boron	---	Insufficient detections of boron to complete evaluation of correlation of boron to lithium, and boron to other Appendix III constituents						
p-value								
Pearson's Correlation Coefficient (r) - Lithium	---	---	-0.18	0.41	0.62	0.76	0.27	0.91
p-value			0.5209	0.1291	0.0137	0.0010	0.3304	1.00E-05

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	pH
---	---	---	---	---	---	---	---	6.93
11/11/2016	ND	0.0450	12	2.6	0.32	3.4	98	6.80
2/6/2017	ND	0.0500	11	2.6	0.45	3.7	36	6.78
3/15/2017	ND	0.0520	10	2.4	0.37	3.6	120	6.79
4/11/2017	ND	0.0480	11	2.3	0.37	3.2	68	6.82
4/26/2017	ND	0.0440	8.4	2.3	0.4	3.3	76	6.76
6/7/2017	ND	0.0470	9	2.5	0.35	3.8	74	6.99
7/11/2017	ND	0.0450	9.5	2.3	0.39	3.3	70	6.59
8/10/2017	ND	0.0560	8.8	2.5	0.42	3.7	66	6.72
6/14/2018	ND	0.0480	8.9	2.4	0.35	3.5	74	6.67
10/4/2018	ND	0.0620	10	2.6	0.35	4.6	100	6.75
4/2/2019	ND	0.0520	11	2.5	0.33	3.8	88	6.71
9/18/2019	0.024	0.0520	8.8	2.7	0.32	3.6	96	6.9
5/4/2020	ND	0.0490	15	2.8	0.36	4.5	110	7.11
9/23/2020	ND	0.0560	13	2.6	0.25	3.0	94	6.59
Pearson's Correlation Coefficient (r) - Boron	---	Insufficient detections of boron to complete evaluation of correlation of boron to lithium, and boron to other Appendix III constituents						
p-value								
Pearson's Correlation Coefficient (r) - Lithium	---	---	0.06	0.39	-0.22	0.44	0.25	-0.17
p-value			0.8385	0.1680	0.4498	0.1154	0.3887	0.5612

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

	PB-3 ⁽¹⁾	PB-3 ⁽¹⁾	PB-4 ⁽¹⁾	PB-4 ⁽¹⁾	PB-4 ⁽¹⁾	PB-7 ⁽²⁾	PB-8 ⁽²⁾	WGWC-8	WGWC-19	WGWC-19
Sample Location:										
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) ⁽³⁾:	NA	NA	NA	NA	NA	NA	NA	730 - 720	699 - 689	699 - 689
Adjacent Compliance Well and Approximate Screen Interval (ft NAVD88) ⁽⁴⁾:	WGWC-9 (761 - 751)	WGWC-9 (761 - 751)	WGWC-9 (761 - 751)	WGWC-9 (761 - 751)	WGWC-9 (761 - 751)	WGWC-10 (674 - 664)	WGWC-10 (674 - 664)	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 (Unit):	Gneiss (Long Island Creek Gneiss)	Gneiss (Long Island Creek Gneiss)	Gneiss (Long Island Creek Gneiss)	Gneiss (Long Island Creek Gneiss)	Gneiss (Long Island Creek Gneiss)	Schist (Schist-Amphibolite)	Schist (Schist-Amphibolite)	Quartzite	Schist (Button Schist)	Schist (Button Schist)
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) The well screen of WGWC-9 is set in weathered gneiss derived from the same bedrock gneiss unit encountered at PB-3 and PB-4.

(2) The well screen of WGWC-10 is set in saprolite and weathered schist derived from the same bedrock schist-amphibolite unit encountered at PB-7 and PB-8.

(3) Screen interval of compliance well shown for comparison to core sample collection interval. NA if core sample location is not a compliance well.

(4) 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

	PB-3 ⁽¹⁾	PB-3 ⁽¹⁾	PB-4 ⁽¹⁾	PB-4 ⁽¹⁾	PB-4 ⁽¹⁾	PB-7 ⁽²⁾	PB-8 ⁽²⁾	WGWC-8	WGWC-19	WGWC-19
Sample Location:										
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):	758 - 753	748 - 744	760 - 750	745 - 741	736 - 729	673 - 663	712 - 702	731 - 721	694 - 693	692 - 691
Screen Interval of Compliance Well (ft NAVD88) ⁽³⁾:	NA	NA	NA	NA	NA	NA	NA	730 - 720	699 - 689	699 - 689
Adjacent Compliance Well and Approximate Screen Interval (ft NAVD88) ⁽⁴⁾:	WGWC-9 (761 - 751)	WGWC-9 (761 - 751)	WGWC-9 (761 - 751)	WGWC-9 (761 - 751)	WGWC-9 (761 - 751)	WGWC-10 (674 - 664)	WGWC-10 (674 - 664)	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 (Unit):	Gneiss (Long Island Creek Gneiss)	Gneiss (Long Island Creek Gneiss)	Gneiss (Long Island Creek Gneiss)	Gneiss (Long Island Creek Gneiss)	Gneiss (Long Island Creek Gneiss)	Schist (Schist-Amphibolite)	Schist (Schist-Amphibolite)	Quartzite	Schist (Button Schist)	Schist (Button Schist)
Total Lithium Concentration in Core (mg/kg)	22	17	36	43	36	130	53	17	86	70
Predicted Lithium in Groundwater (mg/L) ⁽⁵⁾	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) ⁽⁶⁾	0.033 ⁽⁷⁾	0.033 ⁽⁷⁾	0.033 ⁽⁷⁾	0.033 ⁽⁷⁾	0.033 ⁽⁷⁾	0.0054 ⁽⁸⁾	0.0054 ⁽⁸⁾	0.013	0.056	0.056

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) The well screen of WGWC-9 is set in weathered gneiss derived from the same bedrock gneiss unit encountered at PB-3 and PB-4.

(2) The well screen of WGWC-10 is set in saprolite and weathered schist derived from the same bedrock schist-amphibolite unit encountered at PB-7 and PB-8.

(3) Screen interval of compliance well shown for comparison to core sample collection interval. NA if core sample location is not a compliance well.

(4) 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.

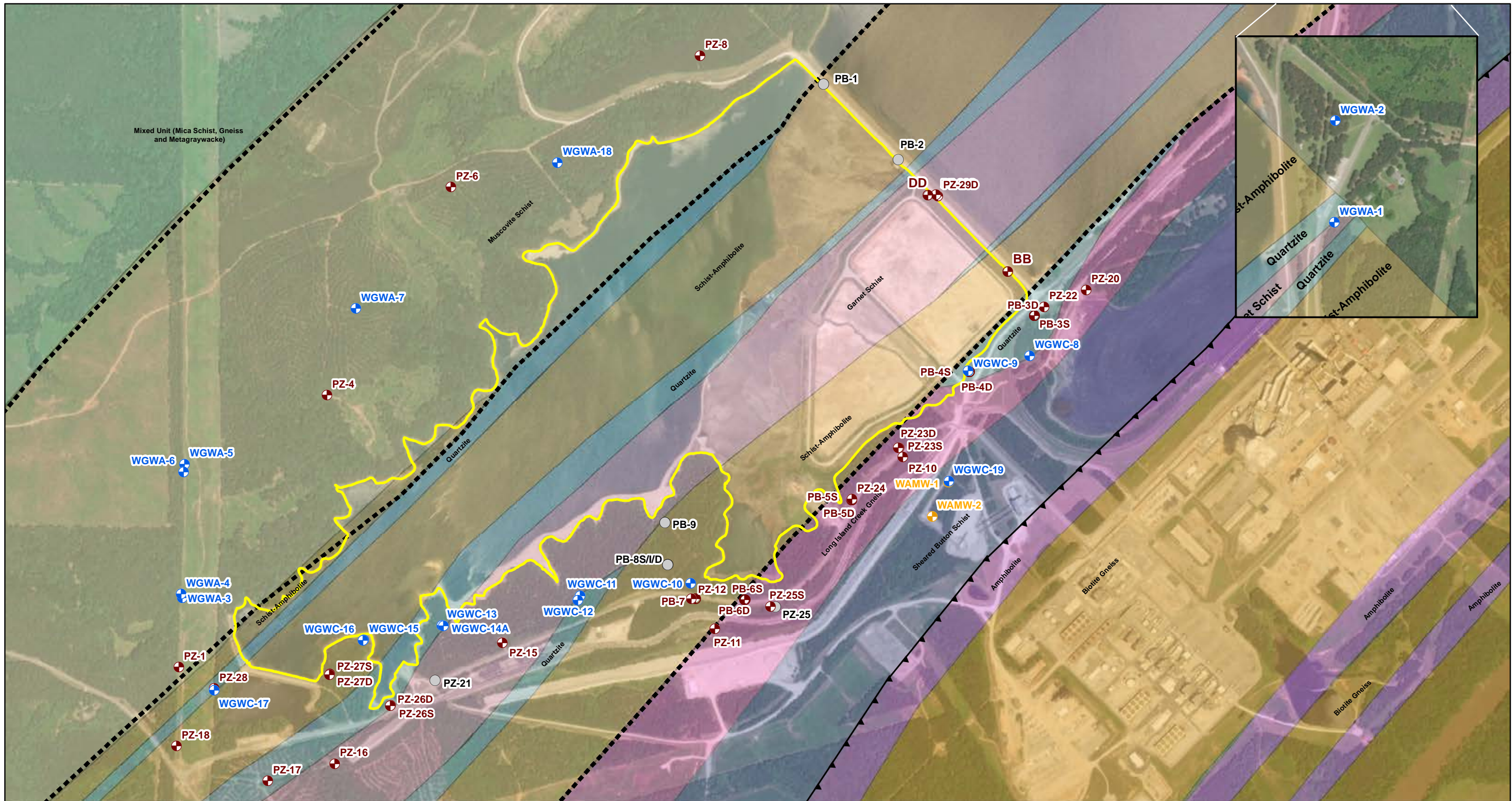
(5) Predicted concentrations of lithium in groundwater based on distribution coefficient ($K_d = 300$ L/kg (Baes et al., 1984). Predicted concentrations calculated by dividing lithium concentrations in cores (mg/kg) by 300 L/kg.

(6) Lithium concentration in compliance well detected during the September 2020 semiannual groundwater assessment event.

(7) Lithium concentration in compliance well WGWC-9 during the September 2020 semiannual groundwater assessment event.

(8) Lithium concentration in compliance well WGWC-10 during the September 2020 semiannual groundwater assessment event.

FIGURES



<ul style="list-style-type: none"> Characterization Monitoring Well Compliance Monitoring Well Piezometer Abandoned Boring/Piezometer Approximate Boundary of AP-1 Strike-Slip Fault Thrust Fault 	<ul style="list-style-type: none"> Amphibolite Biotite Gneiss Garnet Schist Long Island Creek Gneiss Mixed Unit (Mica Schist, Gneiss and Metagraywacke) Muscovite Schist 	<ul style="list-style-type: none"> Quartzite Schist-Amphibolite Sheared Button Schist
---	--	---

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








Monitoring Well Network, Piezometers, and Site Geology Plant Wansley Georgia Power Company 1371 Liberty Church Road Carrolton, Ga 30116	
 consultants	
Kennesaw, Ga	February 2021
Figure 1	

M:\GA Power\Plant Wansley\GIS\mxd\2020\ASD_LifeFigure 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

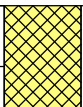

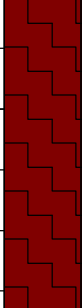
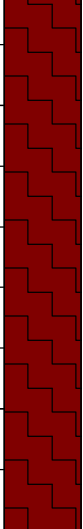
**FIGURE
 2**

APPENDIX A


Select Boring Logs

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-3D/3S Page: 1 of 4
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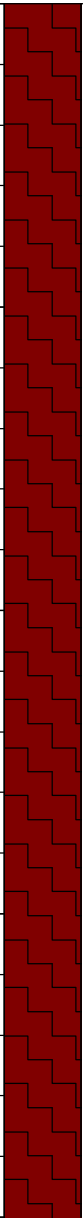

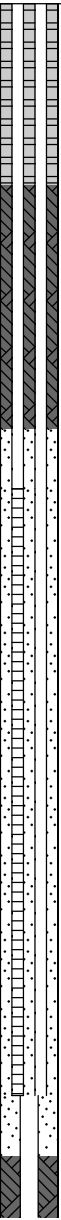
Drilling Start Date: 2/23/2017 Drilling End Date: 2/24/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski	Boring Depth (ft): 63 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 804.57 Location (Y, X): 1243273.69, 2029686.62	Well Depth (ft): (28-38) & (52-62) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand
---	--	--

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				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	785


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No.- PB-3D/3S Page: 2 of 4
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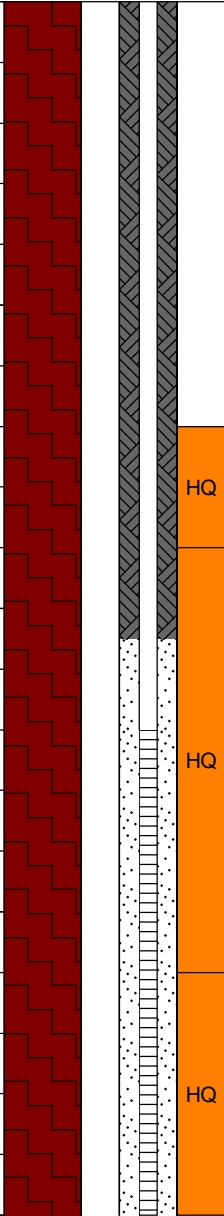

Drilling Start Date: 2/23/2017 Drilling End Date: 2/24/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski	Boring Depth (ft): 63 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 804.57 Location (Y, X): 1243273.69, 2029686.62	Well Depth (ft): (28-38) & (52-62) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)			
				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		
35											(32') METAQUARTZITE, intensely fractured, pale brown to tan, cataclasite, gravelly, highly oxidized		
40							(36') Same rock as above, more competent, fewer natural fractures		Harder drilling, water return ~60%	765			


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-3D/3S Page: 3 of 4
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Drilling Start Date: 2/23/2017 Drilling End Date: 2/24/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski	Boring Depth (ft): 63 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 804.57 Location (Y, X): 1243273.69, 2029686.62	Well Depth (ft): (28-38) & (52-62) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand
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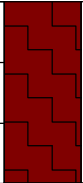
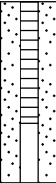
DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				Sample Type	Recovery (ft)	RQD (%)				
40							(40.5') GNEISS, foliated, pale blue to pink, increasing competency Photo 13 of photo log (47') GNEISS, distinct mineral banding, blueish gray and pink, few very high angle (~65°) healed hairline fractures; high RQD; no oxidation present (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) (57') GNEISS, low angle open fractures, pale brown to tan, heavily oxidized, scale on surfaces (58') GNEISS, steep foliated, blueish gray			760
45				HQ	2	92			Stopped for 2/23/17, started HQ Coring on 2/24/17, water return~80%	755
50				HQ	7	87			Very hard, slow, 2 hrs to drill 7 ft, water return ~80%	750
55				HQ	3	54			Very slow, water recovery ~60%	745
60										

NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-3D/3S Page: 4 of 4
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Drilling Start Date: 2/23/2017 Drilling End Date: 2/24/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski	Boring Depth (ft): 63 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 804.57 Location (Y, X): 1243273.69, 2029686.62	Well Depth (ft): (28-38) & (52-62) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				Sample Type	Recovery (ft)	RQD (%)				

60							(58') GNEISS, steep foliated, blueish gray(continued)			
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(63.0') Boring Terminated


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-4D/4S Page: 1 of 4
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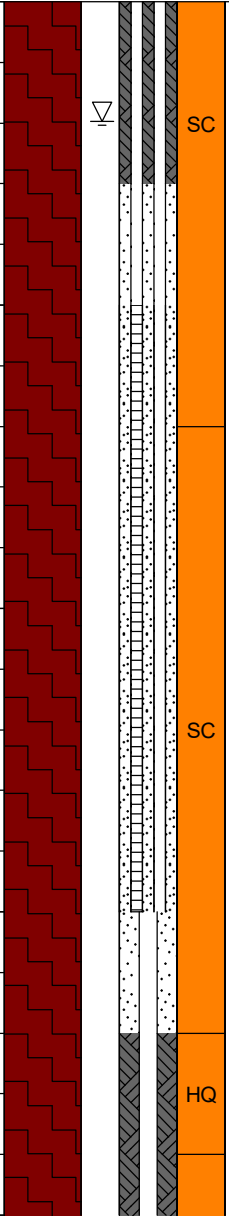


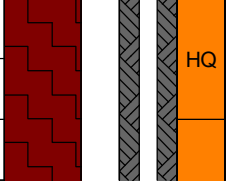

Drilling Start Date: 2/21/2017 Drilling End Date: 2/22/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski	Boring Depth (ft): 80 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 809.43 Location (Y, X): 1242790.61, 2029126.42	Well Depth (ft): (25-35) & (63-73) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				Sample Type	Recovery (ft)	RQD (%)				
0							(0') SANDY SILT with cobbles (ML)		0-10' removed by air knife	805
5							(8') Becomes very hard			800
10				SC	8		(10') SILT with angular gravel (ML); very dense, wet, pale yellow to white, relict rock fabric, SAPROLITE	PB-4 (11-12)		
15						Photo 2 of photo log Photo 4 of photo log	(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:

 engineers scientists innovators	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-4D/4S Page: 2 of 4
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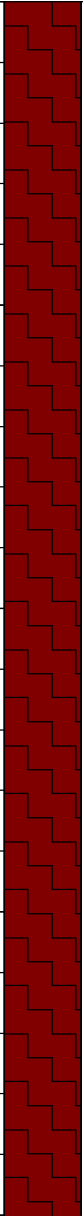


Drilling Start Date: 2/21/2017 Drilling End Date: 2/22/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski	Boring Depth (ft): 80 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 809.43 Location (Y, X): 1242790.61, 2029126.42	Well Depth (ft): (25-35) & (63-73) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)	
				Sample Type	Recovery (ft)	RQD (%)					Photo
20				SC	6		Photo 5 of photo log Photo 10 of photo log	PB-4 (24-25)	Driller reports 50% water return during run Switched to HQ coring, pulled 2' core due to blockage ~40% water return ~40% water	785	
25											780
30											
35				HQ	1.8		(37') As above; intensley fractured, sand and mud filled fracture at 38.1'		770		
40											


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-4D/4S Page: 3 of 4
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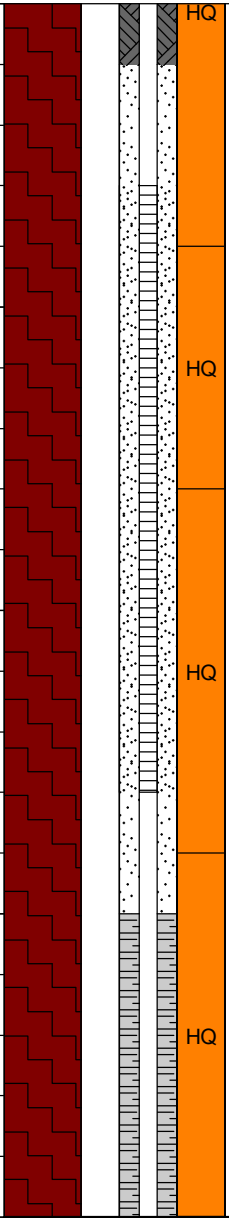


Drilling Start Date: 2/21/2017 Drilling End Date: 2/22/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski	Boring Depth (ft): 80 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 809.43 Location (Y, X): 1242790.61, 2029126.42	Well Depth (ft): (25-35) & (63-73) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)			
				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							HQ	5	43	(44') Intensely fractured zone, heavily oxidized (44.4') Sand filled fracture		~50% water recovery, used ~200 gallons per 5' run	765
										(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			
							(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'		End for 2/21/17				
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:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-4D/4S Page: 4 of 4
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Drilling Start Date: 2/21/2017 Drilling End Date: 2/22/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Full size truck Driller Name: V. Scott Logged By: J. Ivanowski	Boring Depth (ft): 80 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 809.43 Location (Y, X): 1242790.61, 2029126.42	Well Depth (ft): (25-35) & (63-73) Well Diameter (in): 1 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: 20/40 silica sand
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)	
				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				HQ	4	21		(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
70				HQ	6	74	Photo 27 of photo log	(66.5') Intensely fractured from 66.5' to 67.0', filled with sand and gravel, stained with iron-oxide			740
75				HQ	6	90	Photo 31 of photo log	(68') GNEISS, poorly weathered, very dark blue to gray, strong quartz banding with epidote, few hairline fractures (high angle)		Very hard, slow drilling, good water return >70%	735
80								(74') As above; pink potassium feldspar pegmatites, nearly unfractured		Very hard, slow drilling, water return ~70%	730
(80.0') Boring Terminated											


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-7 Page: 1 of 9
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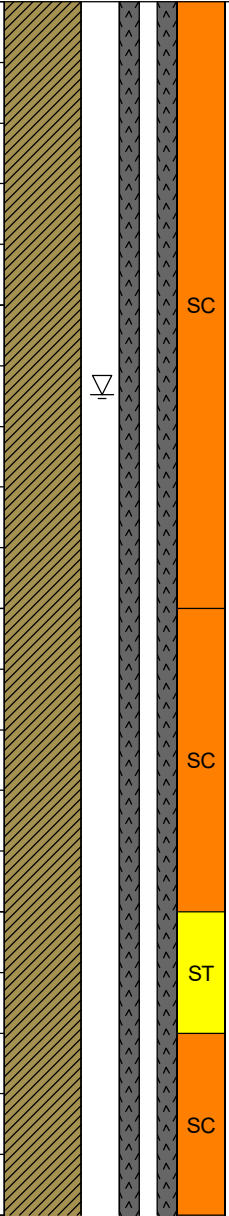

Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin	Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14	Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				Sample Type	Recovery (ft)	RQD (%)				
0							(0') Air knifed for utility clearance			815
7				SC	0		(7') No recovery			810
10				SC	3					805
17							(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
20										


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-7 Page: 2 of 9
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Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin	Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14	Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)		
				Sample Type	Recovery (ft)	RQD (%)					Photo	
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 (continued)	PB-7 (24-25)		795		
25				SC	6.5	Photo 2 of photo log				790		
30								(30') Becomes red (2.5YR 5/8)	PB-7 (29-30)		785	
35										PB-7 (34-35)		
40										(35') Angular fine gravel (quartz) in black layer at 49'	PB-7 (35-37)	


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-7 Page: 3 of 9
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Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin	Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14	Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				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				SC	12		(51') As above, abundant white banding	PB-7 (54-55)		765
50										770
55										760
60										


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-7 Page: 4 of 9
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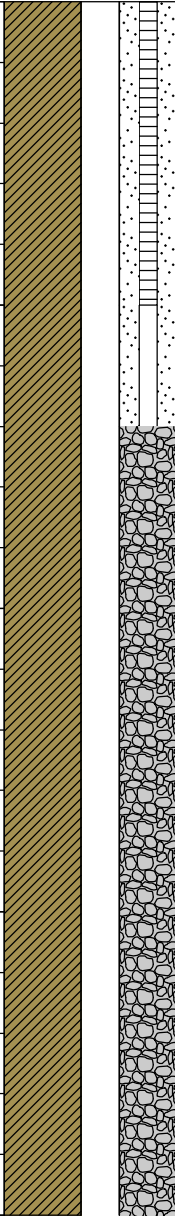
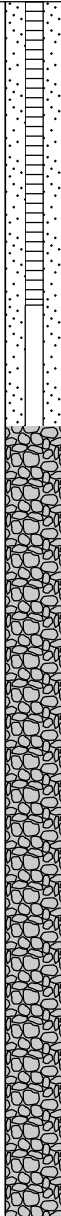
Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin	Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14	Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				Sample Type	Recovery (ft)	RQD (%)				
60				SC	11		(51') As above, abundant white banding(continued)	PB-7 (64-65)		755
65				SC	11		(65') Coarse angular cobbles (quartz?)			750
70				SC	10		(75') Becomes light olive brown (2.5Y 5/3)	PB-7 (74-75)		745
75				SC	10					740
80										


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-7 Page: 5 of 9
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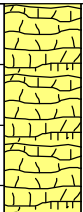

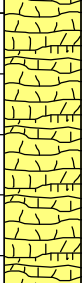



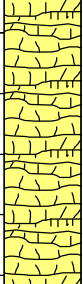



Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin	Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14	Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				Sample Type	Recovery (ft)	RQD (%)				
80				SC	13.5		(80') Becomes brownish yellow (10YR 6/8)	PB-7 (83-84) PB-7 (84-85)		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								PB-7 (94-95)	Hard drilling, core barrel is advancing very slowly	720
100										


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-7 Page: 6 of 9
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Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin	Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14	Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				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:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-7 Page: 7 of 9
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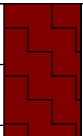

Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin	Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14	Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				Sample Type	Recovery (ft)	RQD (%)				
120							(118') Becomes pinkish gray (7.5YR 6/2), dry(continued)			
							(121') No Recovery			
							(122') Becomes gray (7.5YR 5/1), moist			
125				SC	9			PB-7 (124-125)	Hard drilling	
							(128.5') Becomes pinkish gray (7.5YR 6/2), dry			
							(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)			
130								PB-7 (127-128)		
								PB-7 (129-130)		
				SC	6				Hard drilling	
135								PB-7 (137-138)		
140										


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-7 Page: 8 of 9
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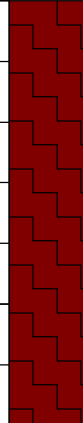

Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin	Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14	Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)	
				Sample Type	Recovery (ft)	RQD (%)					Photo
140				SC	3		(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 (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		Hard drilling Sonic drilling ends at 143' (3/29/2017), HQ rock coring begins at 143' (3/30/2017)	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:


 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-7 Page: 9 of 9
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Drilling Start Date: 3/23/2017 Drilling End Date: 3/31/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: A. Blackwood Logged By: N. Tilahun and J. Griffin	Boring Depth (ft): 167 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 816.51 Location (Y, X): 1240837.08, 2026768.14	Well Depth (ft): (65-75) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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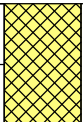

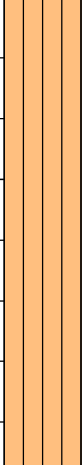
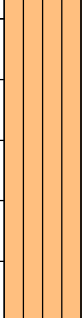

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				Sample Type	Recovery (ft)	RQD (%)				
160				HQ	5	100	(143') SCHIST, thinly to thickly bedded, gray (7.5YR 5/1), fine to coarse, very hard, fresh, unfractured, mechanical breaks along high angled joints, few quartz banding, some coarse quartz grains, abundant mica(continued)			655
165				HQ	4.5	100				of photo log

(167.0') Boring Terminated


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-8D/I/S Page: 1 of 8
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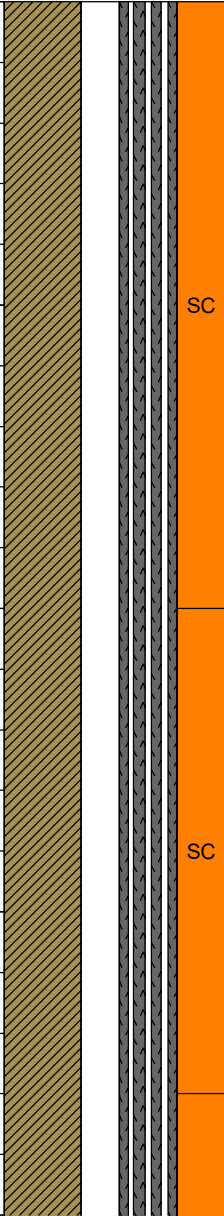
Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun	Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99	Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				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			PB-8 (14-15)		835
20								PB-8 (19-20)		830


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-8D/II/S Page: 2 of 8
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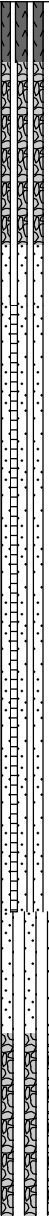
Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun	Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99	Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				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	PB-8 (24-25)		825
25							Photo 3 of photo log			(26') Becomes reddish yellow (7.5YR 8/6)
30				SC	8			PB-8 (34-35)		815
35										810
40										


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-8D/II/S Page: 3 of 8
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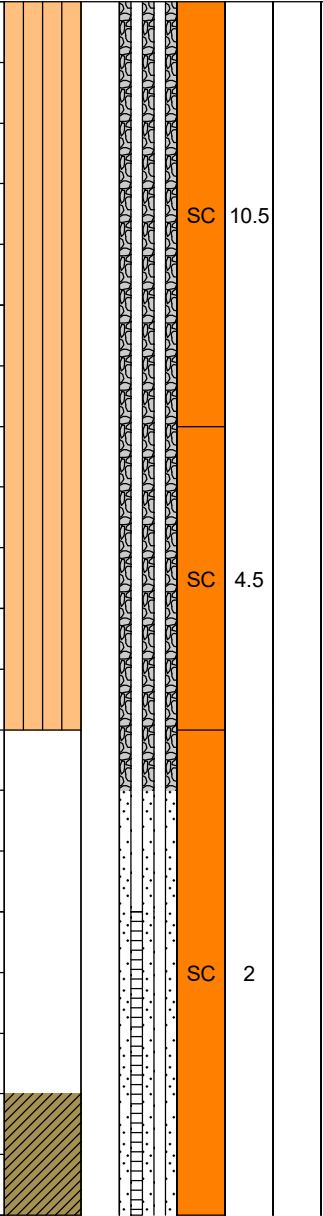
Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun	Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99	Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)	
				Sample Type	Recovery (ft)	RQD (%)					Photo
40				SC	12			PB-8 (44-45)		805	
45											
50				SC	8				PB-8 (49-50)		795
55											790
60							Photo 6 of photo log				
							Photo 7 of photo log				
							(40') CLAY (CL); some fine to coarse gravel, some mica, medium plasticity, soft, dry, brown (7.5YR 5/4)				
							(42') Hard, gray (7.5YR 5/1), angular				
							(45') CLAY with silt (CL); some silt, abundant mica, low plasticity, soft, dry, gray (7.5YR 6/1), foliation				
							(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 (58.9') Becomes trace fine to coarse sand, moist	PB-8 (59-60)			


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-8D/II/S Page: 4 of 8
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Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun	Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99	Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)		
				Sample Type	Recovery (ft)	RQD (%)					Photo	
60							(60') Becomes dry	PB-8 (66-67)		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 (67') Becomes wet, medium plasticity	780	
70				SC	4.5					(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:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-8D/II/S Page: 5 of 8
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Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun	Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99	Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				Sample Type	Recovery (ft)	RQD (%)				
80										
							(80') No recovery			
							(81') Becomes dry			
85				SC	9					765
							(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:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-8D/II/S Page: 6 of 8
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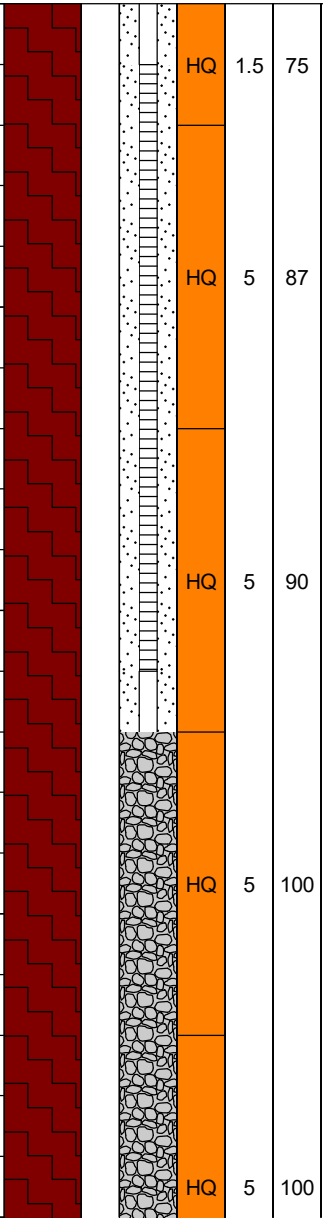

Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun	Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99	Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				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			
							(117') As above, GNEISS, massive bedding, banded, foliation, hard			730


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-8D/II/S Page: 7 of 8
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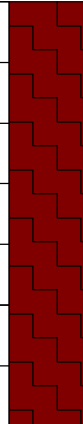
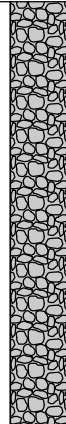
Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun	Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99	Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)	
				Sample Type	Recovery (ft)	RQD (%)					Photo
120				HQ	1.5	75	(120') No recovery (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 (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 (124') Massive mechanical breaks along tight fractures, slight banding (127') As above, slight banding, fracture at 128' (132') As above, fracture at 133' and 134', thin white banding, ~4" quartz layer near bottom (137') (137') As above, fracture at 138.5' and 140', thin white banding, ~4" thick quartz layer near top (137')		Sonic drilling ends at 120' (4/13/2017), HQ coring begins at 120' (4/20/2017)	725	
				HQ	5	87				Photo 15 of photo log	720
125					HQ	5				90	715
130					HQ	5				100	710
135					HQ	5				100	
140					HQ	5				100	


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-8D//S Page: 8 of 8
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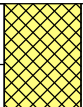

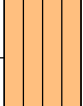
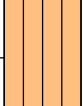


Drilling Start Date: 4/12/2017 Drilling End Date: 4/20/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun	Boring Depth (ft): 147 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 847.24 Location (Y, X): 1241128.67, 2026529.99	Well Depth (ft): (45-55) (75-85) (121-131) Well Diameter (in): N/A Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				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) (142') As above, tight fractures at 143.5' and 144', thin white banding			705
145										
(147.0') Boring Terminated										


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-9 Page: 1 of 4
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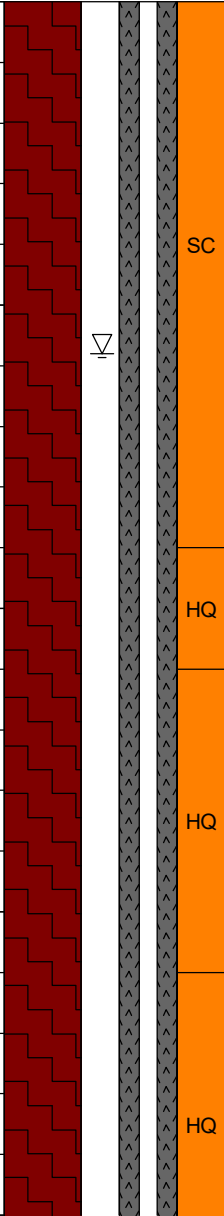

Drilling Start Date: 4/13/2017 Drilling End Date: 4/19/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun	Boring Depth (ft): 75 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 820.49 Location (Y, X): 1241490.28, 2026504.40	Well Depth (ft): (60-70) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				Sample Type	Recovery (ft)	RQD (%)				
0							(0') Topsoil; FILL			820
3							(3') CLAY with silt (CL); some silt, low plasticity, soft, moist, brown (7.5YR 5/4), SAPROLITE	PB-9 (4-5)		815
7				SC	9		(7') SILT with fine sand (ML); some fine sand, loose, moist, light brown (7.5YR 6/3), fragile mica rock fragments, INTENSELY WEATHERED ROCK	PB-9 (7-8)	Photo 1 of photo log	
9				SC	10		(9') SILT with clay (ML); some clay, some rock fragments of mica (small to large, hard, irregular to platy), low plasticity, soft, moist, light brown (7.5YR 6/3)		Photo 2 of photo log	810
17							(17') Becomes gray (7.5YR 6/1), platy rock fragments	PB-9 (17-18)		805
18				SC	1		(18') Becomes gray (7.5YR 6/1)			


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-9 Page: 2 of 4
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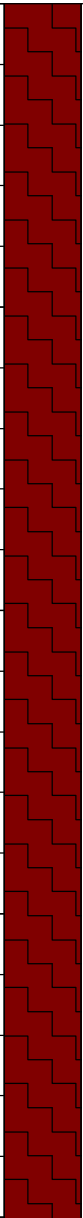


Drilling Start Date: 4/13/2017 Drilling End Date: 4/19/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun	Boring Depth (ft): 75 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 820.49 Location (Y, X): 1241490.28, 2026504.40	Well Depth (ft): (60-70) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)	
				Sample Type	Recovery (ft)	RQD (%)					Photo
20		▽		SC	8		Photo 4 of photo log			800	
25											795
30				HQ	2						790
35				HQ	5	100					785
40				HQ	5	70					


NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-9 Page: 3 of 4
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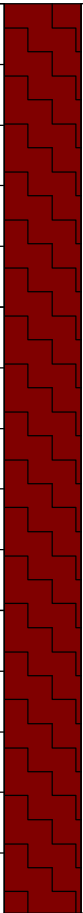
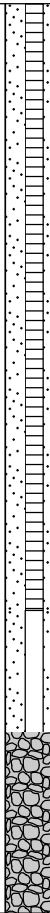

Drilling Start Date: 4/13/2017 Drilling End Date: 4/19/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun	Boring Depth (ft): 75 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 820.49 Location (Y, X): 1241490.28, 2026504.40	Well Depth (ft): (60-70) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
---	--	--

DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)
				Sample Type	Recovery (ft)	RQD (%)				
40				HQ	5	100	(36') As above, fresh, mechanical break along tight fractures on joints (<i>continued</i>)		Fast drilling (1 ft/min)	780
						(41') As above, fresh, mechanical break along tight fractures or joints		775		
45				HQ	5	100	(46') As above, fresh, mechanical break along tight fractures or joints		Fast drilling (1 ft/min)	770
						(48.6') Thick quartz layer from 48.6'-49', white		765		
50				HQ	5	100	(51') As above, fresh mechanical break along tight fractures or joints		0.3 ft/min drilling	765
55	HQ	5	93	(56') As above, fresh, fractures at 57.5' and 59.1' (slight clay and pyrite staining, narrow, parallel to bedding plane, planar, not healed), mechanical breaks along bedding planes		0.3 ft/min drilling				
60										

NOTE:

 <p>engineers scientists innovators</p>	Client: Southern Company Services Project: Plant Wansley Pre-Design Investigation Address: 1371 Liberty Church Rd. Carrollton, GA 30116	BORING LOG Boring No. PB-9 Page: 4 of 4
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Drilling Start Date: 4/13/2017 Drilling End Date: 4/19/2017 Drilling Company: Cascade Drilling Method: Sonic/HQ Rock Coring Drilling Equipment: Terra Sonic Driller Name: M. Hanson and J. Triepke Logged By: N. Tilahun	Boring Depth (ft): 75 Boring Diameter (in): 6" x 4" Sampling Method(s): ST, SC, HQ DTW During Drilling (ft): -- DTW After Drilling (ft): -- Ground Surface Elev. (ft): 820.49 Location (Y, X): 1241490.28, 2026504.40	Well Depth (ft): (60-70) Well Diameter (in): 2 Screen Slot (in): 0.01 Riser Material: PVC Screen Material: PVC Seal Material(s): Bentonite Filter Pack: Sand Pack
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DEPTH (ft)	GRAPHIC LOG	WATER LEVEL	WELL COMPLETION	COLLECT			MATERIAL DESCRIPTION	SAMPLE	REMARKS	ELEVATION (ft NAVD 88)		
				Sample Type	Recovery (ft)	RQD (%)					Photo	
60				HQ	4	40	(61') As above, fresh, moderately fractured, slight pyrite and clay staining, clay fillings might be washed away by drilling water, fractures have irregular surface (planar to undulating), rock fragments don't fit well and only 4' of rock recovered which could imply soft fillings (clay) existed between rock fragments and washed out (66') Same as above, fresh, intensely fractured, soft near fractures (67.5') Same as above, fresh, mechanical break along bedding planes and tight fractures (70') Same as above, fresh, mechanical break along bedding planes and tight fractures		Drilling water is muddy	760		
65											755	
70												750
75												750
(75.0') Boring Terminated												

NOTE:

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)	ML		2.00				
					773.70				
5		4.00 - 8.00 red orange overburden (saprolite)			4.00				
770					769.70				
		8.00 - 24.00 dry to moist, brown to reddish orange			8.00				
10									
765									
15									
760									
20									
755									
					753.70				
25		24.00 - 28.00 GRAVELLY CLAY; wet, yellow-orange, trace black and white stringers, manganese oxide and weathered feldspar, lean clay	GC		24.00				
750					749.70				
		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		28.00				
30					748.70				
		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				
745									
35									
740									
40									
735									
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 WGWC8/APC-1


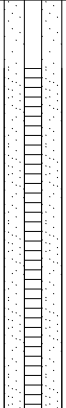
SHEET 2 of 2

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>							<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			BR						
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

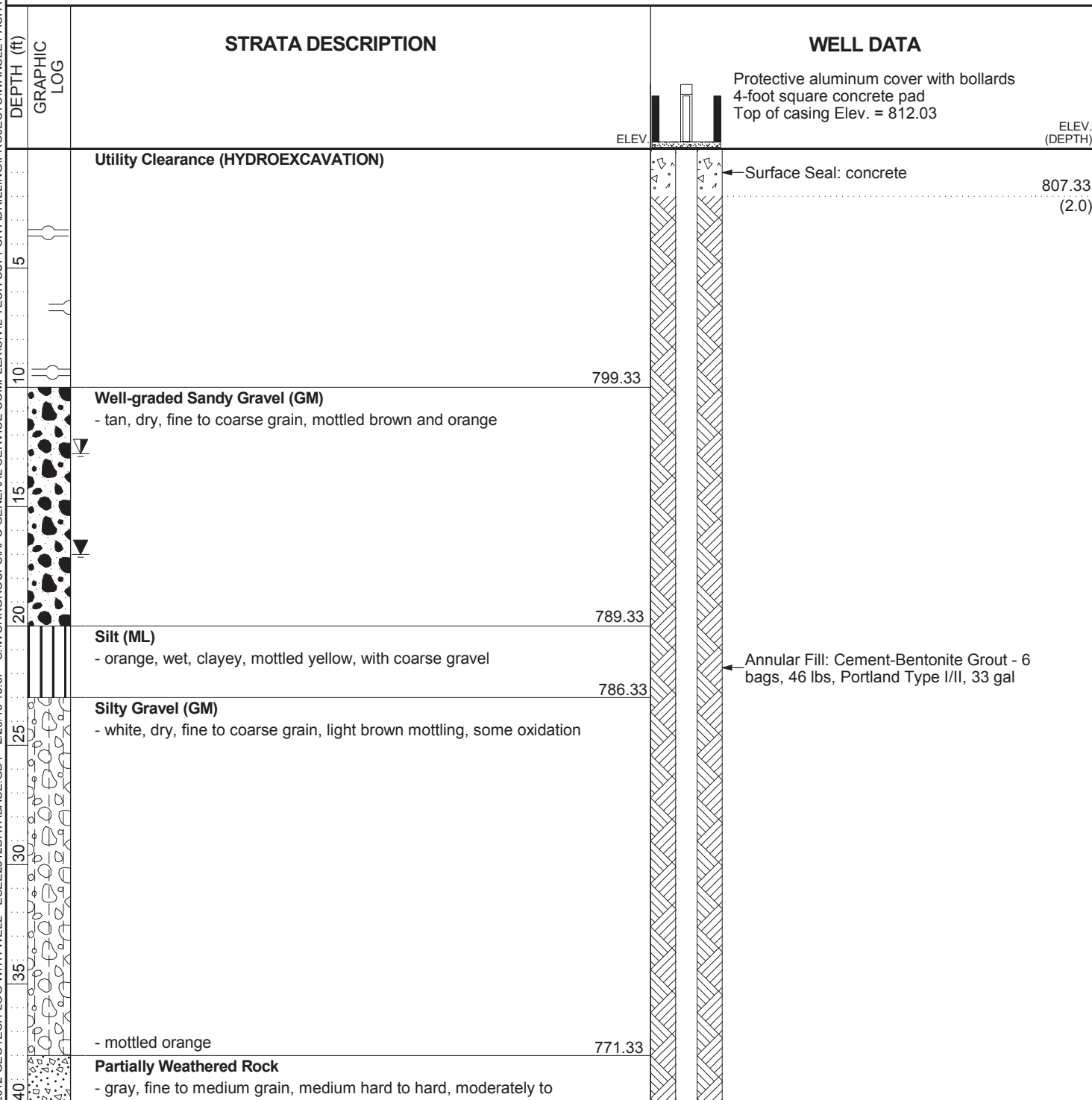
CONTRACTOR CASCADE EQUIPMENT SONIC METHOD Rotosonic

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
45		highly weathered, with oxidation Partially Weathered Rock(Cont)	<div style="text-align: right;">ELEV. (DEPTH)</div> <div style="text-align: right;">767.83 (41.5)</div> <div style="text-align: right;">765.23 (44.1)</div> <div style="text-align: right;">760.93 (48.4)</div>
50			<div style="text-align: right;">751.33</div> <div style="text-align: right;">750.93</div>
55			
		Bottom of borehole at 58.0 feet.	Sump: 0.40 ft.

Protective aluminum cover with bollards
4-foot square concrete pad
Top of casing Elev. = 812.03

Annular Seal: bentonite chips - 1 bag, 50 lbs, Baroid 3/8" chips

Filter: silica filter sand - 4.5 bags, 50 lbs, #1A filter media

Well: 2" OD PVC (SCH 40)

Well: 2" OD PVC (SCH 40)
Screen: 10 ft. pre-pack

ELEV. (CONTINUED)

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							
55	755	58.00 - 58.10 1" black layer with gravel size quarts grains, silt sized black particles			751.61 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 WGWC13/APC-5D

SHEET 1 of 3

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 96.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 11/2/15
 DATE COMPLETED: 11/4/15

NORTHING: 1240610.93
 EASTING: 2024585.91
 GS ELEVATION: 807.32
 TOC ELEVATION: 809.78

DEPTH W.L.: 20.25' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 11/4/15
 TIME W.L.: 10:08

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 SILT; moist, orange overburden	ML		805.32				<p>WELL CASING Interval: -2.5'-73' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 73'-93' 3" Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 69.5'-96' Type: #1 Sand/ Prepack Filter</p> <p>FILTER PACK SEAL Interval: 66.5'-69.5' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-66.5' 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>
805		2.00 - 7.00 CLAYEY SILT; moist, brown, micaceous, trace garnets up to 1cm, materials are loose/soft	ML		2.00				
5									
800		7.00 - 22.00 SILTY SAND; moist to wet (18 - 26 feet), orange, brown and white (saprolite)	SM		800.32				
10									
795									
15									
790		16.00: Shelby Tube Collected: 16'-17'							
20									
785		22.00 - 26.00 SAPROLITE; weathered pegmatite	ML		785.32				
25									
780		26.00 - 28.00 trace quartz, wet			781.32				
30									
775		28.00 - 35.00 SILTY CLAY; moist, very light brown. metamorphic foliation present. trace gravel size quartzite rock fragments (saprolite)	CL		26.00				
35									
770		35.00 - 36.00 SAPROLITE-ROCK; weathered micaceous meta-quartzite	TWR		779.32				
40		36.00 - 46.00 ROCK; light brown quartzite with light orange oxidation, micaceous meta quartzite	BR		28.00				
45									

Portland Type 1

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 WGWC13/APC-5D

SHEET 2 of 3

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 96.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 11/2/15
 DATE COMPLETED: 11/4/15

NORTHING: 1240610.93
 EASTING: 2024585.91
 GS ELEVATION: 807.32
 TOC ELEVATION: 809.78

DEPTH W.L.: 20.25' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 11/4/15
 TIME W.L.: 10:08

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		46.00 - 56.00 more competent rock	BR		761.32					WELL CASING Interval: -2.5'-73' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded WELL SCREEN Interval: 73'-93' 3" Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC FILTER PACK Interval: 69.5'-96' Type: #1 Sand/ Prepack Filter FILTER PACK SEAL Interval: 66.5'-69.5' Type: 3/8" Bentonite Pellets ANNULUS SEAL Interval: 0'-66.5' 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
760				46.00						
50		56.00 - 87.00 light brown quartzite with light orange oxidation, micaceous meta quartzite	BR		751.32				3/8" Bentonite - Pellets	
755				56.00						
55				720.32						
750					87.00			0.010" Slot Screen		
60								#1 Sand		
745										
65										
740										
70										
735										
75										
730										
80										
725										
85										
720		87.00 - 96.00 grey and pink quartzite								
90										

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 WGWC13/APC-5D

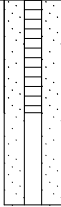
SHEET 3 of 3

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 96.00 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 11/2/15
 DATE COMPLETED: 11/4/15

NORTHING: 1240610.93
 EASTING: 2024585.91
 GS ELEVATION: 807.32
 TOC ELEVATION: 809.78

DEPTH W.L.: 20.25' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 11/4/15
 TIME W.L.: 10:08

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		
90		87.00 - 96.00 grey and pink quartzite <i>(Continued)</i>		[Wavy Pattern]	711.32				<p>WELL CASING Interval: -2.5'-73' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 73'-93' 3" Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 69.5'-96' Type: #1 Sand/ Prepack Filter</p> <p>FILTER PACK SEAL Interval: 66.5'-69.5' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-66.5' 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									
95									
710		Boring completed at 96.00 ft							
100									
705									
105									
700									
110									
695									
115									
690									
120									
685									
125									
680									
130									
675									
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: Shannon George, P.G.
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC15/APC-6D

SHEET 1 of 2

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 53.50 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 11/11/15
 DATE COMPLETED: 11/11/15

NORTHING: 1240483.16
 EASTING: 2023912.92
 GS ELEVATION: 802.03
 TOC ELEVATION: 804.69

DEPTH W.L.: 5.85' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 11/13/15
 TIME W.L.:

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 - 3.00 CLAYEY SILT; homogenous overburden, orange brown, dry to moist	ML		799.03				<p style="text-align: center;">Portland Type 1</p> <p style="text-align: center;">3/8" Bentonite Pellets</p>	<p>WELL CASING Interval: -2.5'-43' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 43.5'-53.5' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 41'-53.5' Type: #1 Sand/Prepack filter</p> <p>FILTER PACK SEAL Interval: 38.8'-41' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-38.8' 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>
800		3.00 - 5.00 CLAYEY SILT; homogenous overburden some coarse gravel, some subrounded weathered cobbles of quartzite, trace white and black staining, orange brown, dry to moist			3.00					
5		5.00 - 7.00 CLAYEY SILT; homogenous overburden, orange brown, black foliations, moist, soft			5.00					
795		7.00 - 9.00 SILTY SAND; grey/brown, silty sand to clayey sand, moist Shelby Tube Collected: 7-9'	SM		7.00					
					793.03					
10		9.00 - 11.00 SILTY SAND; with some gravel, subangular, slightly weathered quartzite; greyish brown, moist			9.00					
					791.03					
790		11.00 - 14.00 GRAVELLY CLAYEY SILT; fine to coarse quartzite gravel, some medium coarse sand, trace black, brown and white micaceous foliations; greyish brown	MLG		11.00					
					788.03					
15		14.00 - 16.00 SILTY CLAY; micaceous, grey, trace brown and black foliations, dry, soft to firm	CL		14.00					
					786.03					
785		16.00 - 22.00 CLAYEY GRAVEL; fine to coarse gravel and cobbles, some white quartzite, red, orange and black staining, brown silty clay, moist Shelby Tube Collected: 17.1'-17.5'	GC		16.00					
					780.03					
780		22.00 - 24.50 TRANSITIONALLY WEATHERED ROCK/SAPROLITE; cobble and pulverized quartzite	TWR		22.00					
					777.53					
25		24.50 - 27.00 weathered quartzose schist, trace fine pyrite, drill pulverized rock into grey powder, some 3-4" cobbles			24.50					
					775.03					
775		27.00 - 29.00 weathered, quartzose gravel, some grey clay			27.00					
					773.03					
30		29.00 - 30.00 weathered, pulverized schist, wet			29.00					
		30.00 - 33.00 weathered, quartzose gravel, some grey clay, wet			30.00					
					772.03					
770					769.03					
35		33.00 - 37.00 BEDROCK; quartzose schist/gneiss, large garnets, green amphibole, mica, black hornblende/biotite, white feldspar	BR		33.00					
					765.03					
765		37.00 - 43.00 various sizes of mafic gneiss and quartzose schist, weathered			37.00					
					759.03					
760		43.00 - 53.50 mafic gneiss, fine to coarse grey gravel, small weathered cobbles, bedrock			43.00					

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: David Wilcox

GA INSPECTOR: Kristen Jurinko
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



RECORD OF BOREHOLE WGWC15/APC-6D


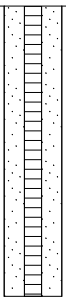
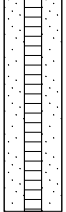
SHEET 2 of 2

PROJECT: SCS Wansley
 PROJECT NUMBER: 154117
 DRILLED DEPTH: 53.50 ft
 LOCATION: Carrollton, GA

DRILL RIG: PS-150 Track Mounted Rig
 DATE STARTED: 11/11/15
 DATE COMPLETED: 11/11/15

NORTHING: 1240483.16
 EASTING: 2023912.92
 GS ELEVATION: 802.03
 TOC ELEVATION: 804.69

DEPTH W.L.: 5.85' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 11/13/15
 TIME W.L.:

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		43.00 - 53.50 mafic gneiss, fine to coarse grey gravel, small weathered cobbles, bedrock (<i>Continued</i>)			748.53			<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">#1 Sand</div>  </div> <div style="margin-top: 5px;"> <div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">0.010" slot screen</div>  </div> </div>	<p>WELL CASING Interval: -2.5'-43' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded</p> <p>WELL SCREEN Interval: 43.5'-53.5' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 41'-53.5' Type: #1 Sand/Prepack filter</p> <p>FILTER PACK SEAL Interval: 38.8'-41' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-38.8' 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>
755									
50									
750									
55		Boring completed at 53.50 ft							
745									
60									
740									
65									
735									
70									
730									
75									
725									
80									
720									
85									
715									
90									

BOREHOLE RECORD WANSLEY BORING LOGS.GPJ | PIEDMONT.GDT 9/29/17

LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade Drilling
 DRILLER: David Wilcox

GA INSPECTOR: Kristen Jurinko
 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			720.60 60.00				
65	715	63.00 - 70.00 TRANSITIONALLY WEATHERED ROCK; brown micaceous schist and garnetiferous greywacke, dry	PWR		63.00				
70	710	70.00 - 87.00 ROCK; garnetiferous greywacke with white plagioclase laminations	BR		710.60 70.00				
75	705		BR						
80	700		BR						
85	695		BR		693.60				
90	690	87.00 - 92.00 ROCK; wet, dark grey micaceous schist	BR		87.00				

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: 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								

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

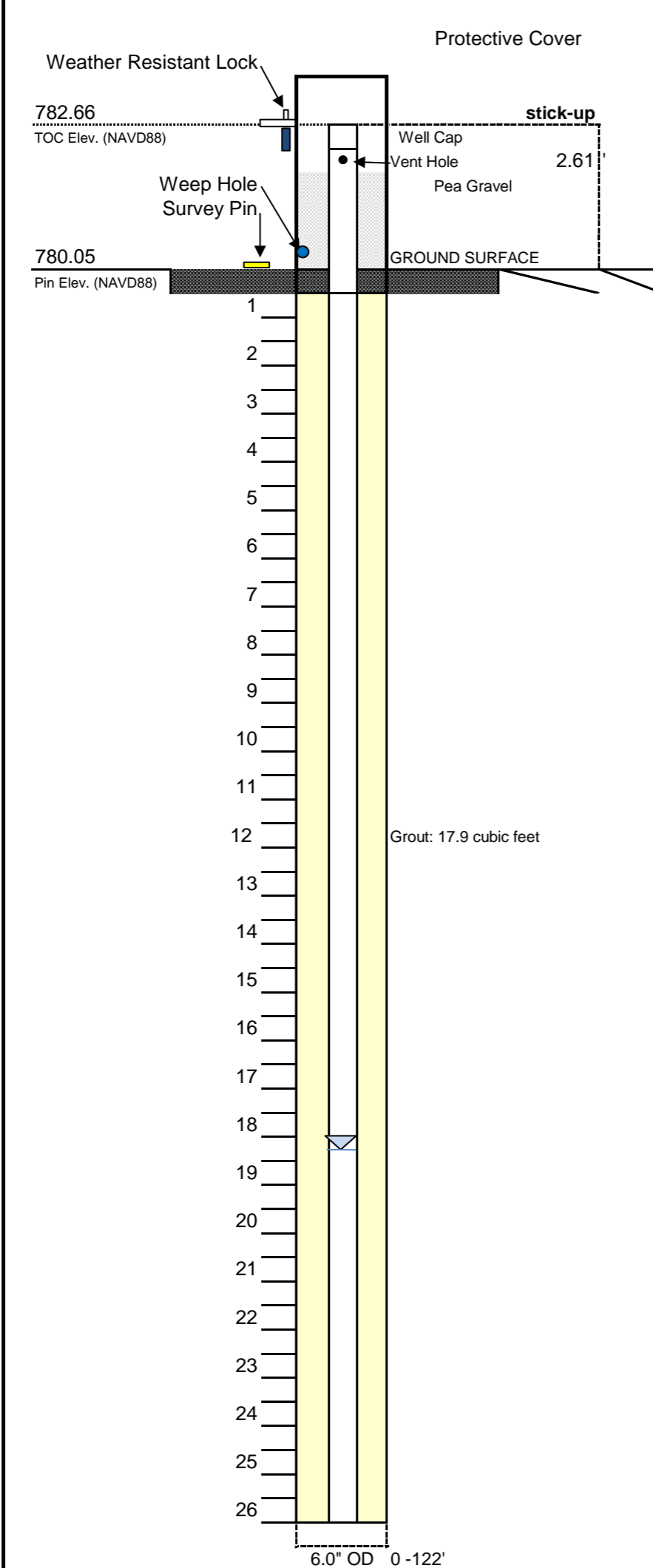




ATLANTIC COAST CONSULTING, INC.

WAMW-1
BORING ID

PROJECT: Plant Wansley - Ash Pond	PROJECT NO.: 1054-110
TOTAL DEPTH: 124.94 ft. TOC	SITE LOCATION: Carrollton, Georgia
DATE BEGIN: 7-Sep-2018	DRILLER: Issac Youub
DATE COMPLETE: 16-Sep-2018	RIG TYPE: T-300 Rotosonic
INSTALLED BY: Cascade	METHOD: Rotosonic
SUPERVISED BY: Ryan Walker	TOC Elev.: 782.66 NAVD88
WATER 1ST ENCOUNTERED: 55' BGS	
WATER AFTER 48 HOURS: 21.34' TOC	



Northing: 1241843.66
 Easting: 2028944.63

SURFACE COMPLETION:
 4"x4" Aluminum Protective Casing
 4"x4"x4" Concrete Pad
 Weather Resistant Lock
 Survey Pin

SOIL DESCRIPTION

0.00 - 10.00'	No recovery; Hydrovac
10.0 - 19.0 Recovery (9/9)	Reddish orange, silty SAND (overburden) (SM)
19.0 - 29.0 Recovery (10/10)	Reddish orange, silty SAND (overburden) (SM)

MATERIALS:

GROUT:		Portland Type I/II Cement
MANUFACTURER:		Sakrete
BENTONITE SEAL:		3/8" Bentonite Pellets
MANUFACTURER:		PDS
FILTER PACK SAND:		20/40 Mesh
MANUFACTURER:		Filter Media GP#1
WELL SCREEN:		Sch. 40 - 2" PVC
MANUFACTURER:		Silver-Line™
SLOT SIZE:		0.010-Inch Slot
WELL CASING:		Sch. 40 - 2" PVC
MANUFACTURER:		Silver-Line™

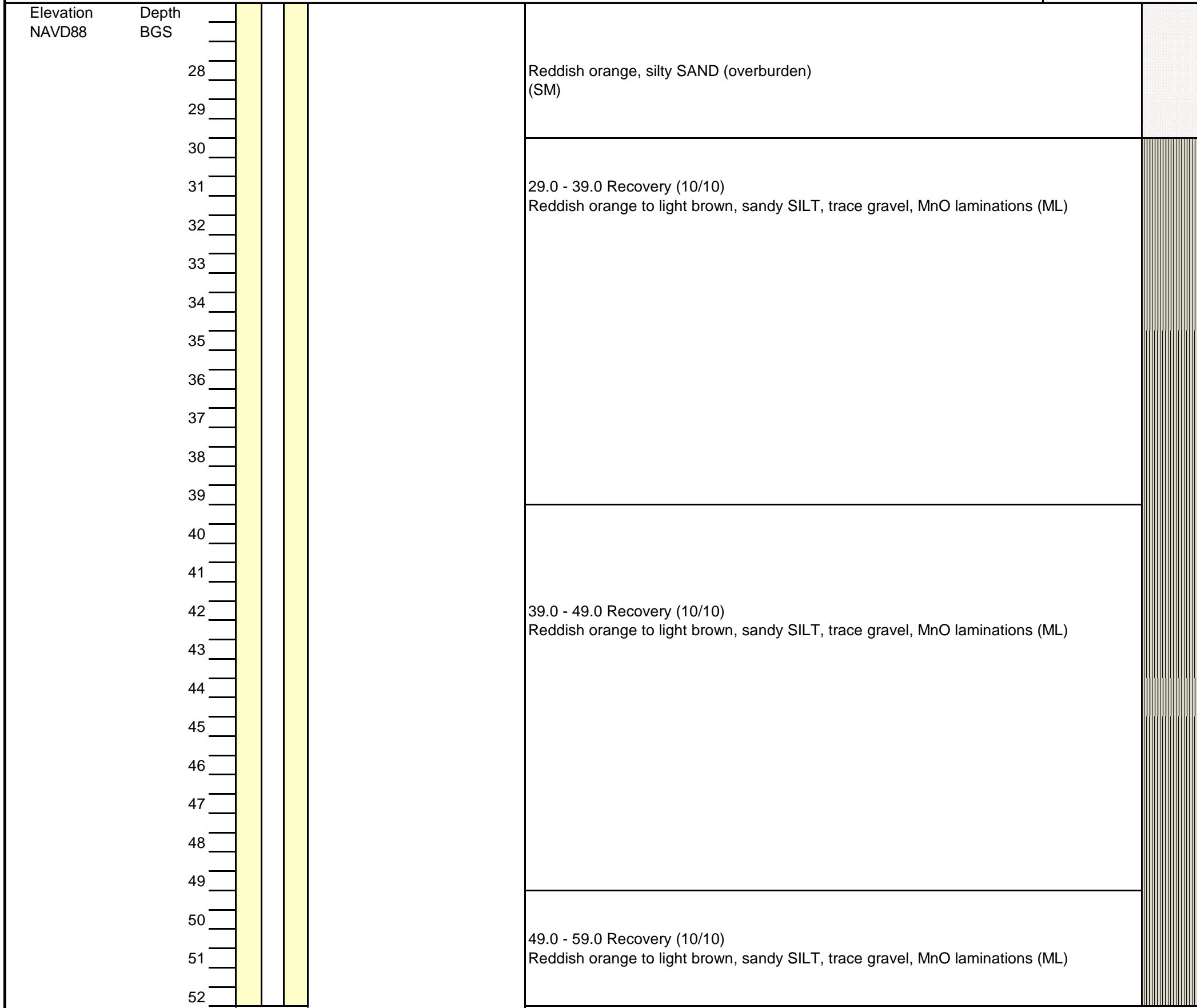
TOC - Top of Casing
 ID - Inside Diameter; OD - Outside Diameter
 NAVD88 - North American Vertical Datum of 1988
 BGS - Below Ground Surface



ATLANTIC COAST CONSULTING, INC.

WAMW-1
BORING ID

PROJECT: Plant Wansley - Ash Pond	PROJECT NO.: I054-110
TOTAL DEPTH: 124.94 ft. TOC	SITE LOCATION: Carrollton, Georgia
DATE BEGIN: 14-Sep-2018	DRILLER: Issac Youub
DATE COMPLETE: 16-Sep-2018	RIG TYPE: T-300 Rotosonic
INSTALLED BY: Cascade	METHOD: Rotosonic
SUPERVISED BY: Ryan Walker	TOC Elev.: 782.66 NAVD88
WATER 1ST ENCOUNTERED: 55' BGS	
WATER AFTER 48 HOURS: 21.34' TOC	



6.0" OD 0-122'

MATERIALS:

- | | | |
|-------------------|--|---------------------------|
| GROUT: | | Portland Type I/II Cement |
| MANUFACTURER: | | Sakrete |
| BENTONITE SEAL: | | 3/8" Bentonite Pellets |
| MANUFACTURER: | | PDS |
| FILTER PACK SAND: | | 20/40 Mesh |
| MANUFACTURER: | | Filter Media GP#1 |
| WELL SCREEN: | | Sch. 40 - 2" PVC |
| MANUFACTURER: | | Silver-Line™ |
| SLOT SIZE: | | 0.010-Inch Slot |
| WELL CASING: | | Sch. 40 - 2" PVC |
| MANUFACTURER: | | Silver-Line™ |

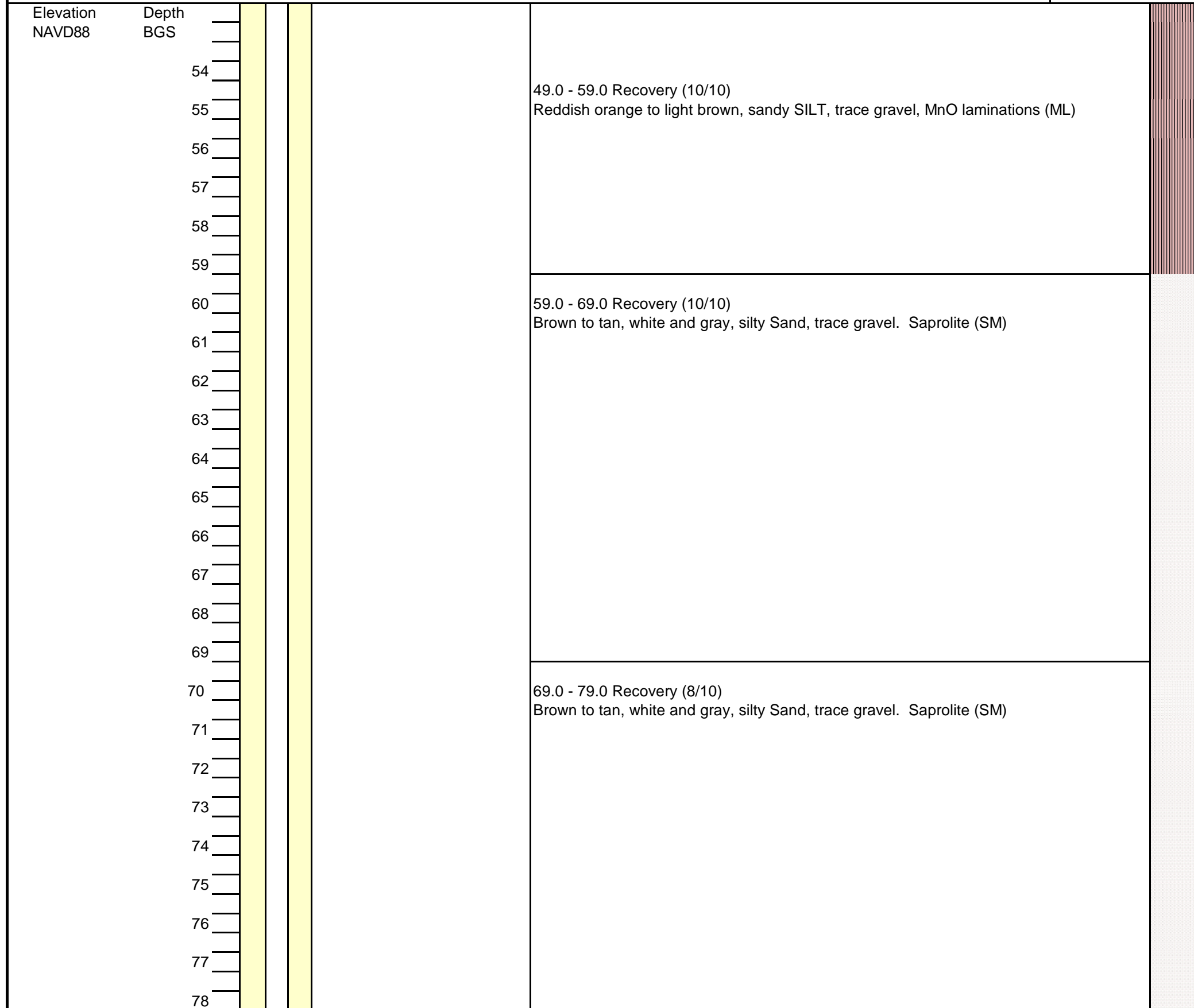
TOC - Top of Casing
 ID - Inside Diameter; OD - Outside Diameter
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ATLANTIC COAST CONSULTING, INC.

WAMW-1
BORING ID

PROJECT:	Plant Wansley - Ash Pond	PROJECT NO.:	I054-110
TOTAL DEPTH:	124.94 ft. TOC	SITE LOCATION:	Carrollton, Georgia
DATE BEGIN:	14-Sep-2018	DRILLER:	Issac Youub
DATE COMPLETE:	16-Sep-2018	RIG TYPE:	T-300 Rotosonic
INSTALLED BY:	Cascade	METHOD:	Rotosonic
SUPERVISED BY:	Ryan Walker	TOC Elev.:	782.66 NAVD88
WATER 1ST ENCOUNTERED:	55' BGS		
WATER AFTER 48 HOURS:	21.34' TOC		



6.0" OD 0-122'

MATERIALS:

- | | | |
|---|--|---|
| GROUT:
MANUFACTURER: | | Portland Type I/II Cement
Sakrete |
| BENTONITE SEAL:
MANUFACTURER: | | 3/8" Bentonite Pellets
PDS |
| FILTER PACK SAND:
MANUFACTURER: | | 20/40 Mesh
Filter Media GP#1 |
| WELL SCREEN:
MANUFACTURER:
SLOT SIZE: | | Sch. 40 - 2" PVC
Silver-Line™
0.010-Inch Slot |
| WELL CASING:
MANUFACTURER: | | Sch. 40 - 2" PVC
Silver-Line™ |

TOC - Top of Casing
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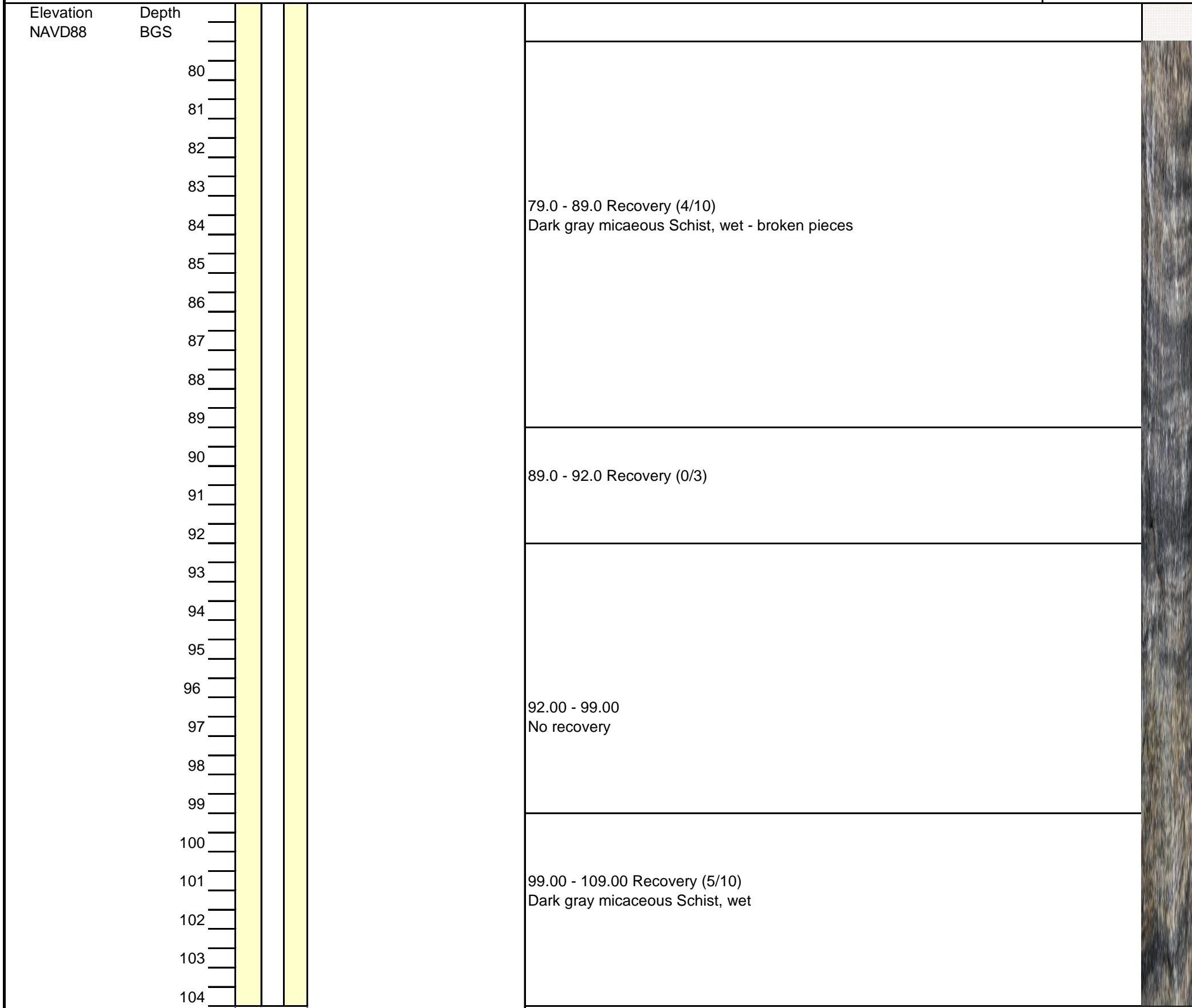


ATLANTIC COAST CONSULTING, INC.

WAMW-1

BORING ID

PROJECT:	Plant Wansley - Ash Pond	PROJECT NO.:	I054-110
TOTAL DEPTH:	124.94 ft. TOC	SITE LOCATION:	Carrollton, Georgia
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DATE COMPLETE:	16-Sep-2018	RIG TYPE:	T-300 Rotosonic
INSTALLED BY:	Cascade	METHOD:	Rotosonic
SUPERVISED BY:	Ryan Walker	TOC Elev.:	782.66 NAVD88
WATER 1ST ENCOUNTERED:	55' BGS		
WATER AFTER 48 HOURS:	21.34' TOC		



6.0" OD 0-122'

MATERIALS:

- | | | |
|---|--|---|
| GROUT:
MANUFACTURER: | | Portland Type I/II Cement
Sakrete |
| BENTONITE SEAL:
MANUFACTURER: | | 3/8" Bentonite Pellets
PDS |
| FILTER PACK SAND:
MANUFACTURER: | | 20/40 Mesh
Filter Media GP#1 |
| WELL SCREEN:
MANUFACTURER:
SLOT SIZE: | | Sch. 40 - 2" PVC
Silver-Line™
0.010-Inch Slot |
| WELL CASING:
MANUFACTURER: | | Sch. 40 - 2" PVC
Silver-Line™ |

TOC - Top of Casing
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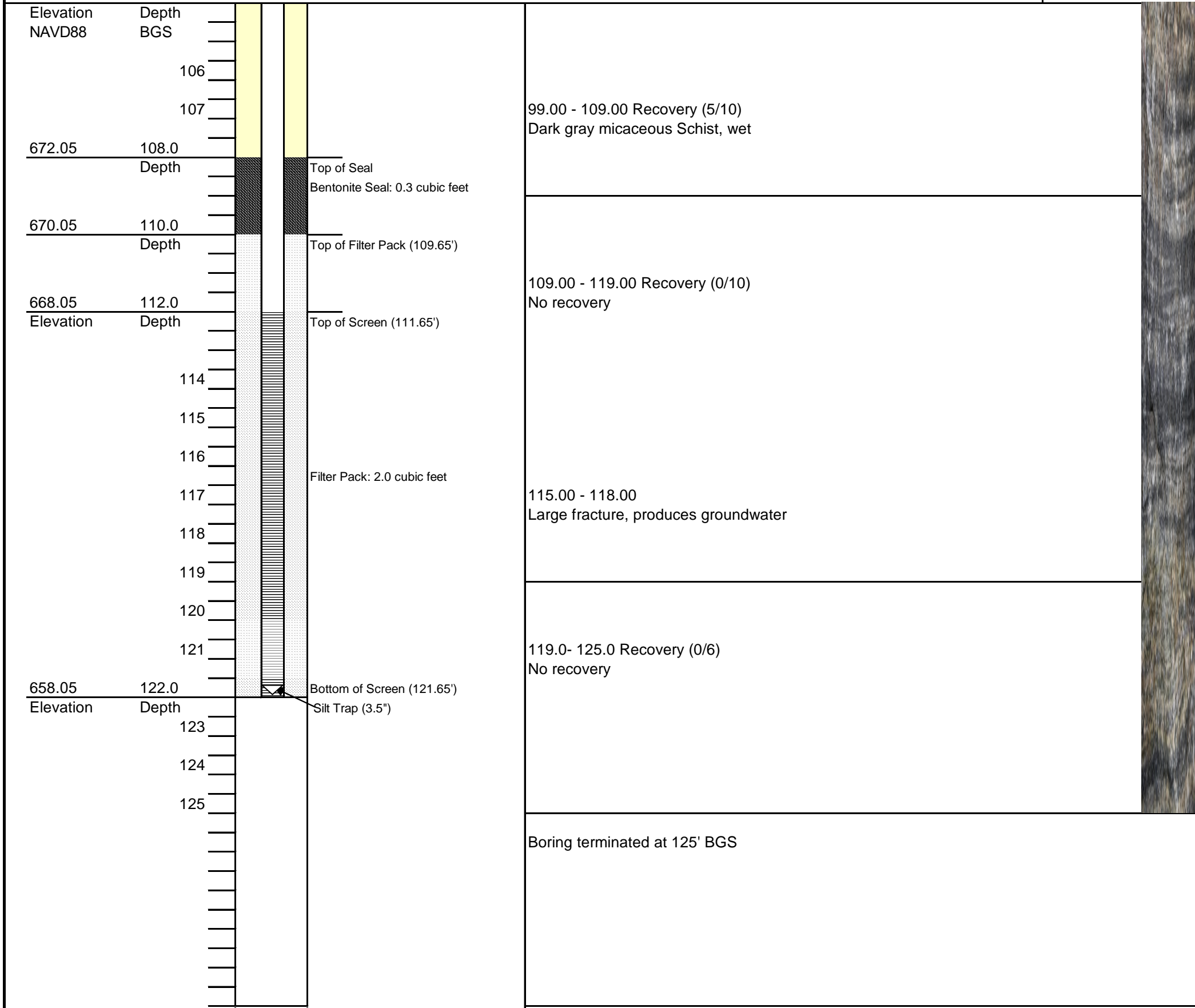


ATLANTIC COAST CONSULTING, INC.

WAMW-1

BORING ID

PROJECT:	Plant Wansley - Ash Pond	PROJECT NO.:	I054-110
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SUPERVISED BY:	Ryan Walker	TOC Elev.:	782.66 NAVD88
WATER 1ST ENCOUNTERED:	55' BGS		
WATER AFTER 48 HOURS:	21.34' TOC		



99.00 - 109.00 Recovery (5/10)
 Dark gray micaceous Schist, wet

109.00 - 119.00 Recovery (0/10)
 No recovery

115.00 - 118.00
 Large fracture, produces groundwater

119.0- 125.0 Recovery (0/6)
 No recovery

Boring terminated at 125' BGS

MATERIALS:

GROUT:		Portland Type I/II Cement
MANUFACTURER:		Sakrete
BENTONITE SEAL:		3/8" Bentonite Pellets
MANUFACTURER:		PDS
FILTER PACK SAND:		20/40 Mesh
MANUFACTURER:		Filter Media GP#1
WELL SCREEN:		Sch. 40 - 2" PVC
MANUFACTURER:		Silver-Line™
SLOT SIZE:		0.010-Inch Slot
WELL CASING:		Sch. 40 - 2" PVC
MANUFACTURER:		Silver-Line™

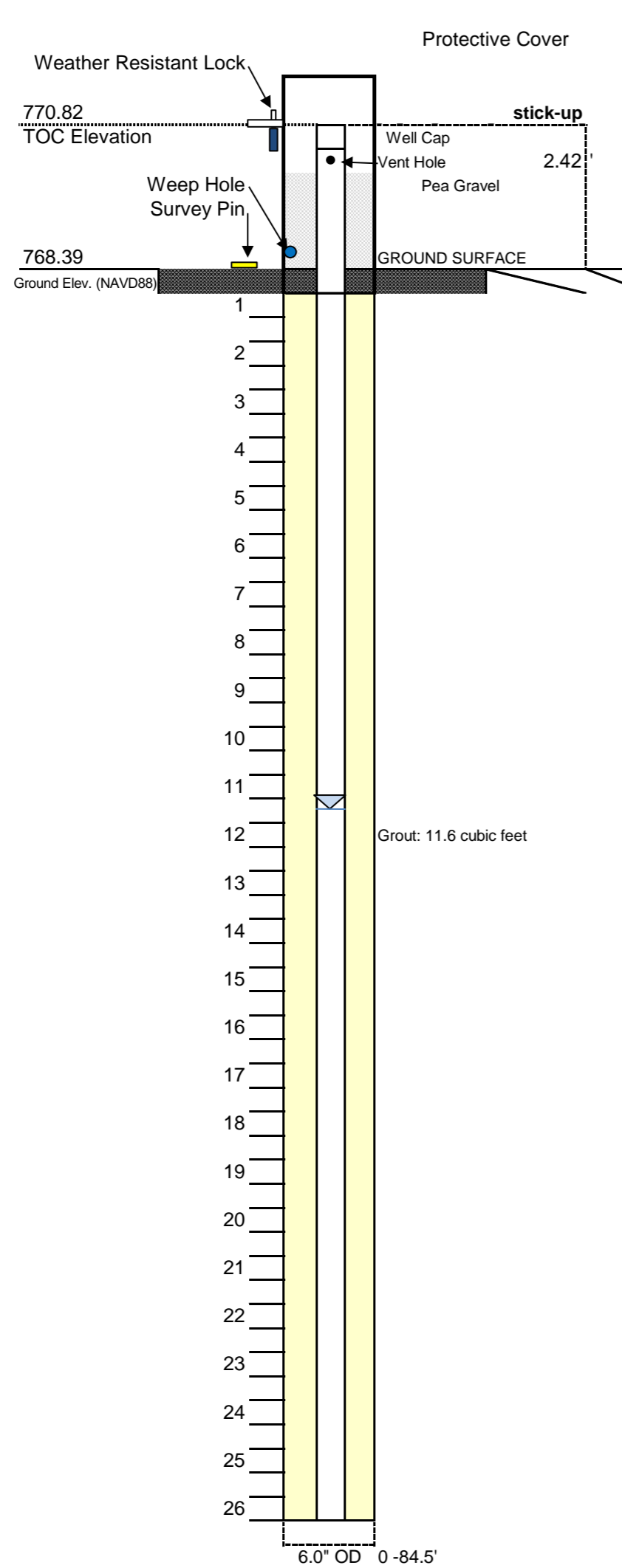
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ATLANTIC COAST CONSULTING, INC.

WAMW-2
BORING ID

PROJECT: Plant Wansley - Ash Pond	PROJECT NO.: I054-110
TOTAL DEPTH: 86.14 ft. TOC	SITE LOCATION: Carrollton, Georgia
DATE BEGIN: 12-Sep-2018	DRILLER: Issac Youub
DATE COMPLETE: 14-Sep-2018	RIG TYPE: T-300 Rotosonic
INSTALLED BY: Cascade	METHOD: Rotosonic
SUPERVISED BY: Ryan Walker	TOC Elev. 770.82 NAVD88
WATER 1ST ENCOUNTERED: 44' BGS	
WATER AFTER 48 HOURS: 14.42' TOC	



Northing: 1241547.56
 Easting: 2028806.27

SURFACE COMPLETION:
 4"x4" Aluminum Protective Casing
 4'x4'x4" Concrete Pad
 Weather Resistant Lock
 Survey Pin

SOIL DESCRIPTION

0.00 - 10.00'
 No recovery; Hydrovac

10.0 - 19.0'
 Orange to reddish brown, SILT, little quartz gravel (ML)

19.0 - 29.0 Recovery (10/10)
 Orangish brown, clayey SILT (MH)

MATERIALS:

GROUT: MANUFACTURER:		Portland Type I/II Cement Sakrete
BENTONITE SEAL: MANUFACTURER:		3/8" Bentonite Pellets PDS
FILTER PACK SAND: MANUFACTURER:		20/40 Mesh Filter Media GP#1
WELL SCREEN: MANUFACTURER: SLOT SIZE:		Sch. 40 - 2" PVC Silver-Line™ 0.010-Inch Slot
WELL CASING: MANUFACTURER:		Sch. 40 - 2" PVC Silver-Line™

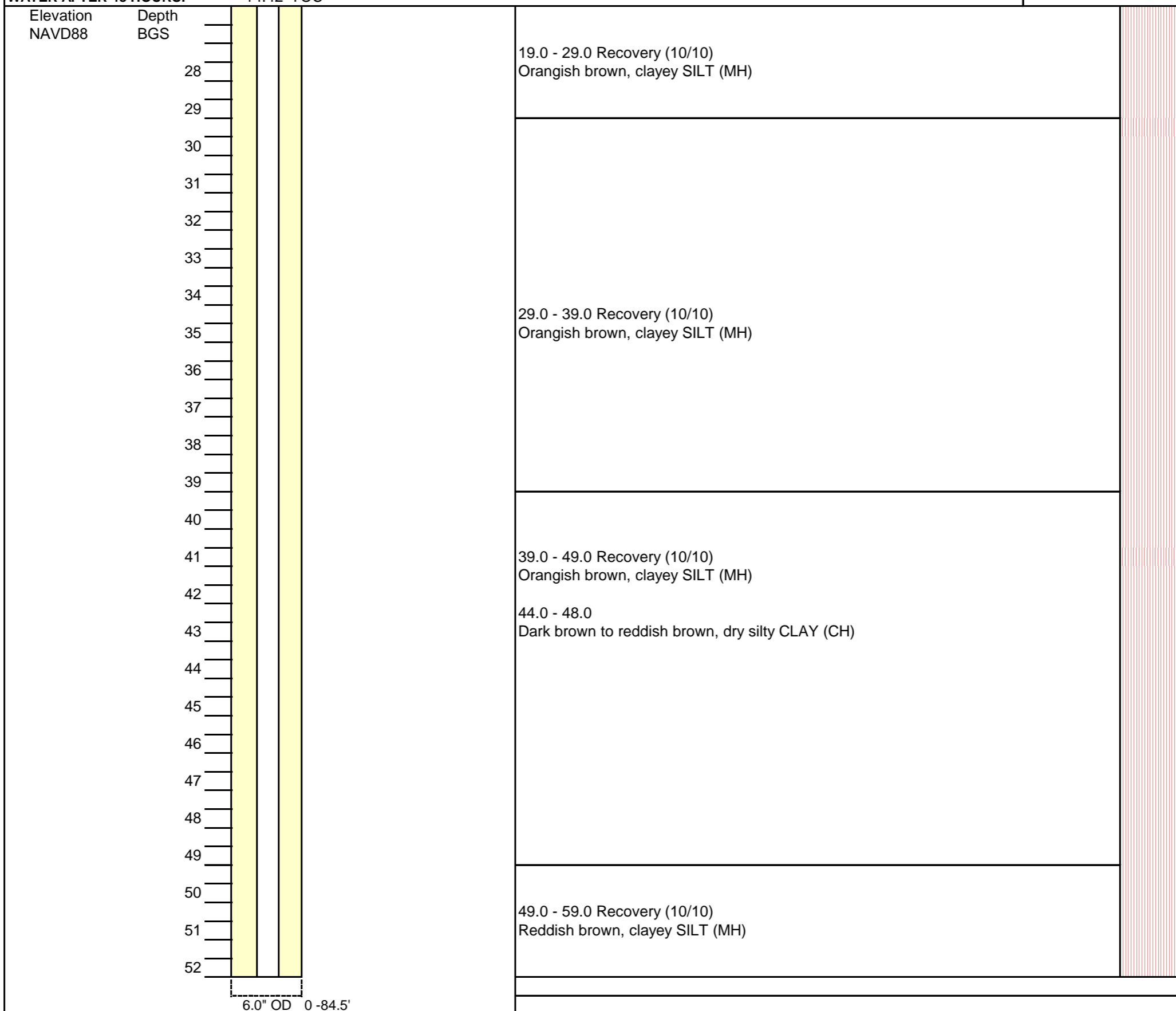
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ATLANTIC COAST CONSULTING, INC.

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 BORING ID

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INSTALLED BY: Cascade	METHOD: Rotosonic
SUPERVISED BY: Ryan Walker	TOC Elev. 770.82 NAVD88
WATER 1ST ENCOUNTERED: 44' BGS	
WATER AFTER 48 HOURS: 14.42' TOC	



MATERIALS:

- | | | |
|---|--|---|
| GROUT:
MANUFACTURER: | | Portland Type I/II Cement
Sakrete |
| BENTONITE SEAL:
MANUFACTURER: | | 3/8" Bentonite Pellets
PDS |
| FILTER PACK SAND:
MANUFACTURER: | | 20/40 Mesh
Filter Media GP#1 |
| WELL SCREEN:
MANUFACTURER:
SLOT SIZE: | | Sch. 40 - 2" PVC
Silver-Line™
0.010-Inch Slot |
| WELL CASING:
MANUFACTURER: | | Sch. 40 - 2" PVC
Johnson Screens™ |

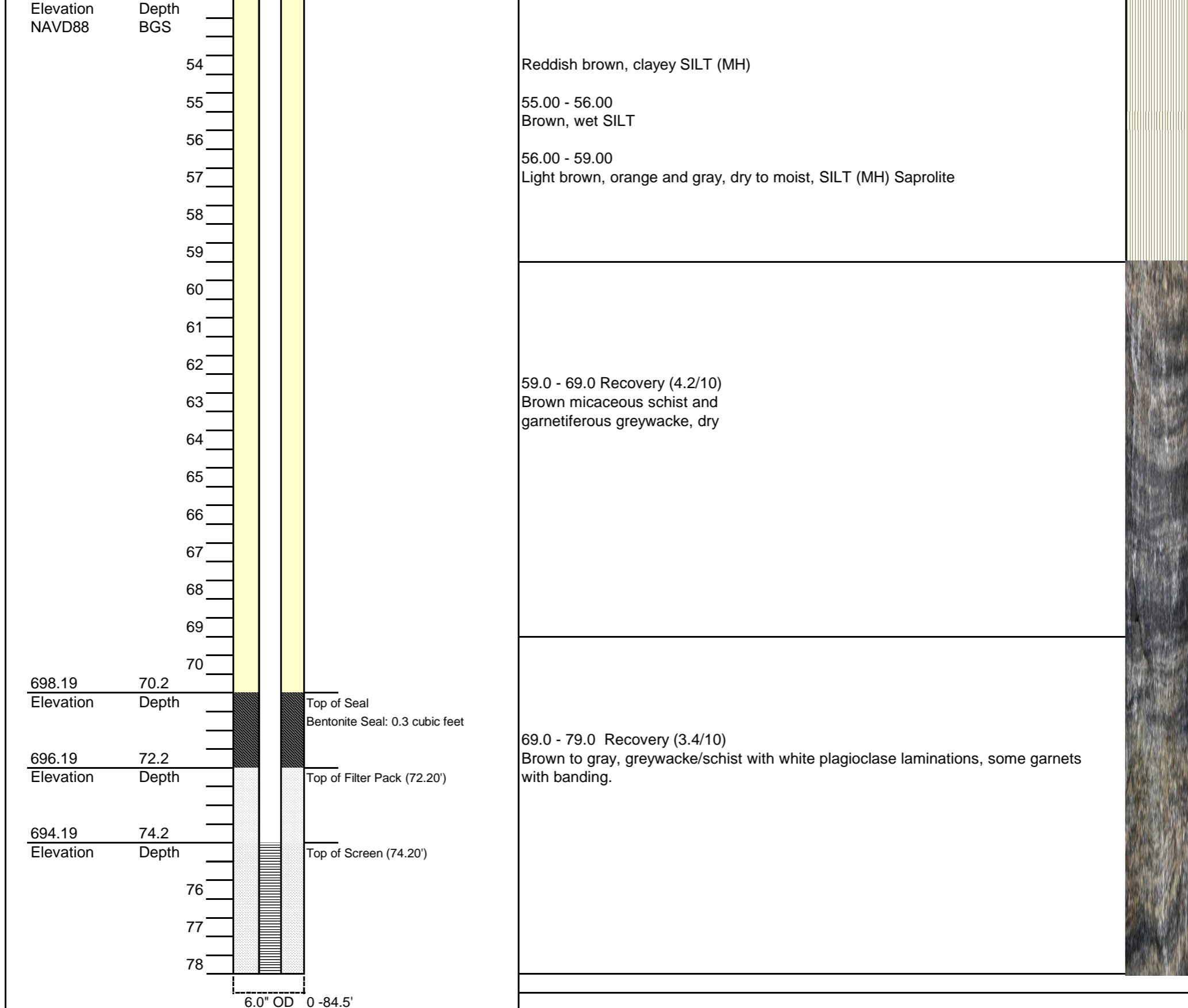
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MATERIALS:

GROUT: MANUFACTURER:		Portland Type I/II Cement Sakrete
BENTONITE SEAL: MANUFACTURER:		3/8" Bentonite Pellets PDS
FILTER PACK SAND: MANUFACTURER:		20/40 Mesh Filter Media GP#1
WELL SCREEN: MANUFACTURER: SLOT SIZE:		Sch. 40 - 2" PVC Silver-Line™ 0.010-Inch Slot
WELL CASING: MANUFACTURER:		Sch. 40 - 2" PVC Johnson Screens™

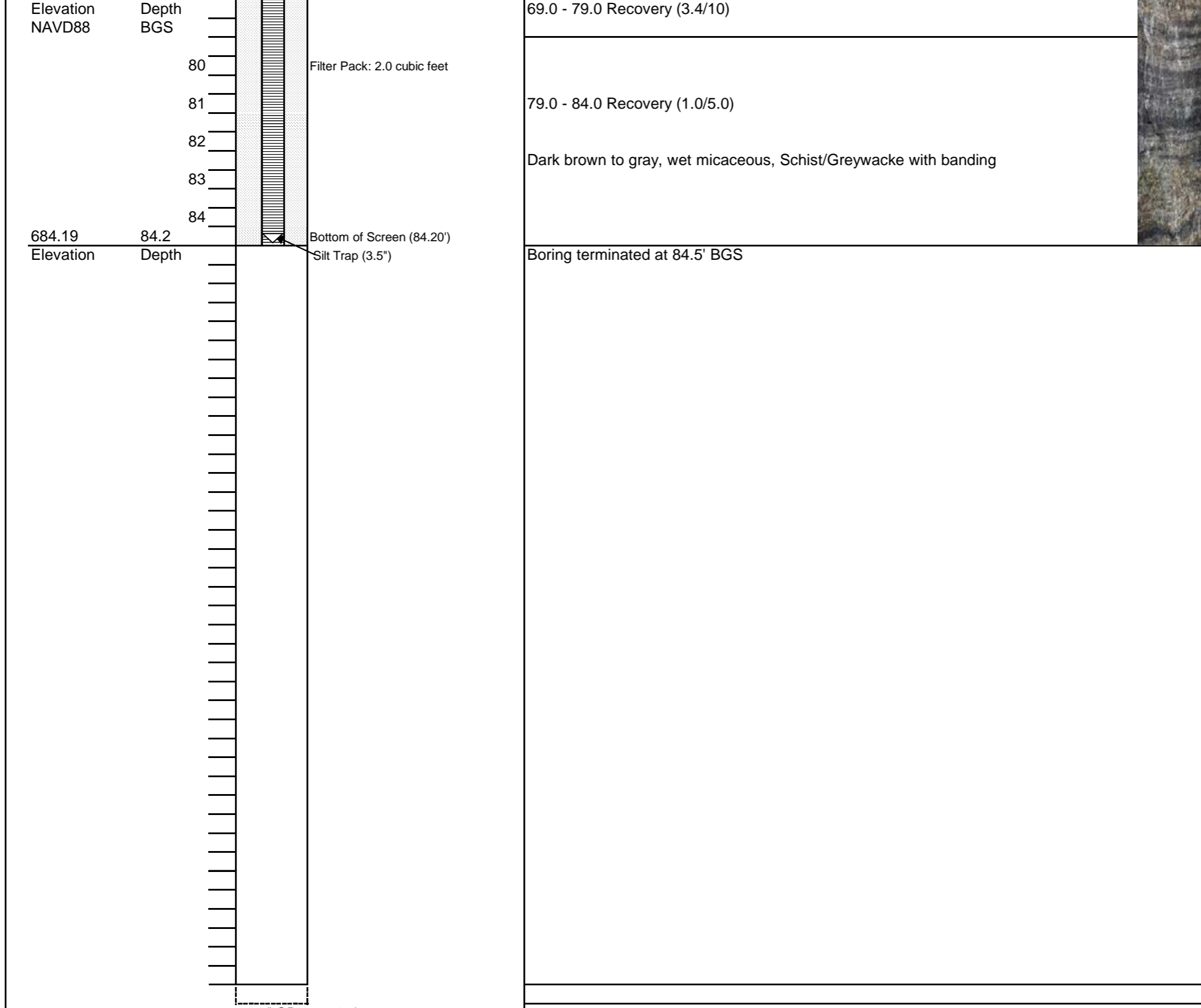
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BENTONITE SEAL: MANUFACTURER:		3/8" Bentonite Pellets PDS
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TOC - Top of Casing
ID - Inside Diameter; OD - Outside Diameter
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ANALYTICAL REPORT

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

Laboratory Job ID: 180-109917-1
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

LINKS

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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



Table of Contents

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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.

Eurofins TestAmerica, Pittsburgh

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										

Eurofins TestAmerica, Pittsburgh

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										

Eurofins TestAmerica, Pittsburgh

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										

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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	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

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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. 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	

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

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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	



Chain of Custody Record

4.4/5.3

4101 Shuffel Street NW
North Canton, OH 44720-6900
Phone (330) 497-9396

Client Information		Sampler: Taylor Payne	Lab PM: Brown, Shall	Carrier Tracking No(s):		COC No:
Client Contact: Adria Reimer		Phone: 678-718-4760	E-Mail: shall.brown@testamericainc.com	Page:		Job #:
Company: Geosyntec		Analysis Requested				
Address: 1255 Roberts Blvd NW, Suite 200		Due Date Requested: NLT 7/22/2020	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Particle Size Reduction	Preservation Codes:
City: Kennesaw		TAT Requested (days): 3 day RUSH				M - Hexane N - None O - AsNaO2 P - Na2O4S D - Nitric Acid E - NaHSO4 F - MeOH R - Na2SO3 S - H2SO4 G - Amchlor H - Ascorbic Acid T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)
State, Zip: GA 30144		PO #:				
Phone: 678-202-9564		WO #:				
Email: areimer@geosyntec.com		Project #:				
Project Name: GW7327		SSOW#:				
Site: Plant Wansley AP1						
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Special Instructions/Note:
PB-3 57-61	7/14/20	11:05	G	S		Applicable to all samples on COC - perform particle size reduction as needed to ensure homogeneous sample is analyzed
PB-3 47-52	7/14/20	11:00	G	S		
PB-4 49-59	7/14/20	12:10	G	S		
PB-4 64-68	7/14/20	12:15	G	S		
PB-4 73-80	7/14/20	12:20	G	S		
PB-7 144-154	7/14/20	12:45	G	S		
PB-8 135-145	7/14/20	15:15	G	S		
Possible Hazard Identification		Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological <input type="checkbox"/>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
Deliverable Requested: <input checked="" type="checkbox"/> II, IV, Other (specify)		Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/>		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> 2 Months		
Empty Kit Relinquished by:		Date:		Special Instructions/QC Requirements: see special note above		
Relinquished by: <i>[Signature]</i>		Date: 7/14/20 18:15		Method of Shipment:		
Relinquished by: <i>[Signature]</i>		Date: 8-20-20 1330		Received by: <i>[Signature]</i>		
Relinquished by: <i>[Signature]</i>		Date: 8-20-20 945		Received by: <i>[Signature]</i>		
Custody Seal No.:		Company: <i>[Signature]</i>		Company: <i>[Signature]</i>		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Company: <i>[Signature]</i>		Company: <i>[Signature]</i>		
Cooler Temperature(s) °C and Other Remarks:		Company: <i>[Signature]</i>		Company: <i>[Signature]</i>		



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

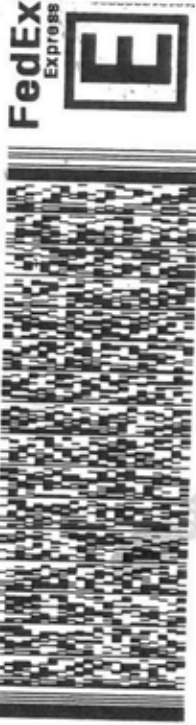
SHIP DATE: 20AUG20
ACTWGT: 59.50 LB
CAD: 0562057/CAFE3313

BILL RECIPIENT

TO ENVIRONMENTAL SAMPLE RECEIPT
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068

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-WL-SR-001 effective 11/8/18



180-109917 Waybill

- 1
- 2
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- 12
- 13

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RUDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2608

Chain of Custody Record

irofins Environment Testing
America



180-109917 Chain of Custody

Client Information (Sub Contract Lab)		Lab Pkt: Brown, Shall	State of Origin: Georgia																																																																																																																								
Client Contact: Shipping/Receiving		E-Mail: Shall.Brown@Eurofinsel.com	Page: Page 1 of 1																																																																																																																								
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-109917-1	Page #																																																																																																																								
Address: 5815 Middlebrook Pike.		Preservation Codes:																																																																																																																									
City: Knoxville	State: TN, 37921	A - HCL	M - Hexene																																																																																																																								
Phone: 865-291-3000 (Tel) 865-584-4315 (Fax)	PO #: 18019822	B - NaOH	N - None																																																																																																																								
Email: Wansley CCR	Project #: 18019822	C - Zn Acetate	O - AS/902																																																																																																																								
Project Name: Plant Wansley GW7327	Site: Wansley CCR	D - Nitric Acid	P - Na2CO3																																																																																																																								
Sample Date	Sample Time	E - NaHSO4	Q - Na2SO4																																																																																																																								
Sample Date	Sample Time	F - NaOH	R - Na2S2O3																																																																																																																								
Sample Date	Sample Time	G - Perchloric	S - H2SO4																																																																																																																								
Sample Date	Sample Time	H - Ascorbic Acid	T - TSP Dodecahydrate																																																																																																																								
Sample Date	Sample Time	I - Ice	U - Acetone																																																																																																																								
Sample Date	Sample Time	J - DI Water	V - NCA																																																																																																																								
Sample Date	Sample Time	K - BUA	W - pH 4.5																																																																																																																								
Sample Date	Sample Time	L - SO4	Z - Other (Specify)																																																																																																																								
Sample Date	Sample Time	Other:																																																																																																																									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Matrix (Powder, Solid, Dissolved, etc.)																																																																																																																								
PB-3 37-61 (180-109917-1)	7/14/20	11:05 Eastern	Solid																																																																																																																								
PB-3 47-52 (180-109917-2)	7/14/20	11:00 Eastern	Solid																																																																																																																								
PB-4 49-59 (180-109917-3)	7/14/20	12:10 Eastern	Solid																																																																																																																								
PB-4 64-68 (180-109917-4)	7/14/20	12:15 Eastern	Solid																																																																																																																								
PB-4 73-80 (180-109917-5)	7/14/20	12:20 Eastern	Solid																																																																																																																								
PB-7 144-154 (180-109917-6)	7/14/20	12:45 Eastern	Solid																																																																																																																								
PB-8 135-145 (180-109917-7)	7/14/20	15:15 Eastern	Solid																																																																																																																								
<table border="1"> <thead> <tr> <th>Analysis Requested</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>601R_SEPISEP1_Mg SO4 (MOD) Step 1</th> <th>601B_SEPISEP2_NaOAc (MOD) Step 2</th> <th>601A_SEPISEP3_Oxalate (MOD) Step 3</th> <th>601B_SEPISEP4_Hydroxyl (MOD) Step 4</th> <th>601B_SEPISEP5_NaClO (MOD) Step 5</th> <th>601B_SEV_Cap (MOD) SEP Toler (As For Acid Mt)</th> <th>601BSEP_Tol_Prep (MOD) Total</th> <th>601B_SEPISEP7_LM_Prep (MOD) Step 7</th> <th>601B_SEPISEP6_Act (MOD) Step 6</th> <th>Moisture Percent Moisture</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>1</td> <td></td> </tr> </tbody> </table>				Analysis Requested	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	601R_SEPISEP1_Mg SO4 (MOD) Step 1	601B_SEPISEP2_NaOAc (MOD) Step 2	601A_SEPISEP3_Oxalate (MOD) Step 3	601B_SEPISEP4_Hydroxyl (MOD) Step 4	601B_SEPISEP5_NaClO (MOD) Step 5	601B_SEV_Cap (MOD) SEP Toler (As For Acid Mt)	601BSEP_Tol_Prep (MOD) Total	601B_SEPISEP7_LM_Prep (MOD) Step 7	601B_SEPISEP6_Act (MOD) Step 6	Moisture Percent Moisture	Total Number of Containers	Special Instructions/Note:		X	X	X	X	X	X	X	X	X	X	X	X	1			X	X	X	X	X	X	X	X	X	X	X	X	1			X	X	X	X	X	X	X	X	X	X	X	X	1			X	X	X	X	X	X	X	X	X	X	X	X	1			X	X	X	X	X	X	X	X	X	X	X	X	1			X	X	X	X	X	X	X	X	X	X	X	X	1			X	X	X	X	X	X	X	X	X	X	X	X	1	
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<p>Note: Since laboratory accreditation is subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance under our subcontract agreement. This sample shipment is forwarded under our methodology. If the laboratory does not currently hold an accreditation in the State of Origin listed above for analytical data being analyzed, the sample 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 a requested accreditation is not available, return the signed Chain of Custody form to said compliance in writing.</p>																																																																																																																											
Possible Hazard Identification																																																																																																																											
Unconfirmed																																																																																																																											
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Custody Seal's Intact: _____ Custody Seal No.: _____																																																																																																																											
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<p>Time: _____ Method of Shipment: _____</p> <p>Company: <i>ETA P/H</i> Recipient: <i>ETA P/H</i> Date: 7/14/20 1700</p> <p>Company: <i>ETA P/H</i> Received by: _____ Date: _____</p> <p>Company: _____ Received by: _____ Date: _____</p> <p>Company: _____ Received by: _____ Date: _____</p> <p>Company: _____ Received by: _____ Date: _____</p> <p>Company: _____ Received by: _____ Date: _____</p>																																																																																																																											



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	RT: 3.0% CT: 3.0% / Carter checked lead 10/24/20 KITE/65 S103 7/19 AW 9/12/20
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID: SC 62 Correction factor: 0.0	/			<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	
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	
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:				

QA026RG2.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 </= 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: 180-109919-1
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

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

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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: 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.

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
- 4
- 5
- 6
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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

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) (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

Client Information Client Contact: Shawn Lin 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: GWT327 Site: Plant Wansley		Lab PM: Brown, Shail E-Mail: shall.brown@testamericainc.com Phone: 205-657-5949		Carrier Tracking No(s): FedEx: 29467775747 Job #:		C/C No: Page: Job #	
Due Date Requested: NLT 7/17/2020 TAT Requested (days): 3 day RUSH		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		Particle Size Reduction: 6020 Lithium	
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 (Weaver, Snodgrass, Onweast, etc.): S		Preservation Code: C		Total Number of Containers:		Special Instructions/Note: Applicable to all samples on COC - perform particle size reduction as needed to ensure homogeneous sample is analyzed	
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		Deliverable Requested: <input checked="" type="checkbox"/> 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 checked="" type="checkbox"/> Archive For 2 Months		Special Instructions/QC Requirements: see special note above	
Empty Kit Relinquished by:		Date:		Method of Shipment:		Cooler Temperature(s) °C and Other Remarks:	
Relinquished by: Shawn Lin		Date/Time: 7.9.2020 17:10		Received by: Adam Grant		Date/Time: 7-10-20 1600	
Relinquished by: Clayton		Date/Time: 8-20-20 1730		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Company: Geosyntec		Company: EPA	



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 NH

SHIP DATE: 20AUG20
ACTWT: 59.50 LB
CAD: 0562057/CAFE3313

NORTH CANTON, OH 447206900
UNITED STATES US

BILL RECIPIENT

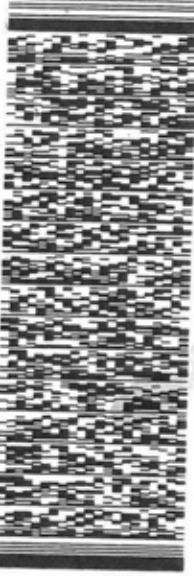
TO ENVIRONMENTAL SAMPLE RECEIPT
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(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

CF

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14

Initials

B

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



180-106919 Waybill

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Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2488

Chain of Custody Record

180-109919-9 Chain of Custody

Environment Testing
America



Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 5815 Middlebrook Pike, City: Knoxville State Zip: TN, 37921 Phone: 865-231-3000(Tel) 865-584-4315(Fax) Email: Project Name: Plant Wansley GW7327 Site: Wansley CCR		Lab P.I.#: Brown, Shali Email: Shali.Brown@EurofinsLab.com State of Origin: Georgia Page: 1 of 1 Page #. 180-109919-1	
Due Date Requested: 10/13/2020 TAT Requested (days):	Accreditation Required (See note):	Preservation Codes: A - HCL B - NBOH C - Zn Acetate D - Nitric Acid E - Nitric Acid F - NaOH G - Ammonia H - Acetic Acid I - 2% J - DI Water K - SOTA L - EDH Other:	
Matrix (Weigh, Sample, Other, Grab) (Use Transmittal) Sample Type (C=Comp, G=Grab) Sample Date: 7/9/20 Sample Time: 09:45 Eastern Preservation Code: Solid	Analysis Requested		
Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> No Perform MSMSD (Yes or No) <input checked="" type="checkbox"/> No 6010B_SEPISEP3_NaOH (MOD) Step 1 6010B_SEPISEP3_Oxime (MOD) Step 2 6010B_SEPISEP3_Hydroxyl (MOD) Step 4 6010B_SEPISEP5_NaClO (MOD) Step 5 6010B_SEPISEP7_Tot Prep (MOD) Total 6010B_SEPISEP7_LM Prep (MOD) Step 7 6010B_SEPISEP7_Acid (MOD) Step 8 Moisture/Foreign Moisture Total Number of Containers	M - Hexane N - None O - Ash/AO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - Acetic Acid U - Acetone V - MCAA W - pH 4.5 Z - other (specify)		
Special Instructions/Note: WGWC-8-47-57 (180-109919-1)	Special Instructions/Note: Total Number of Containers: 1		
Note: Since laboratory accredited, we are subject to change. Eurofins TestAmerica places the ownership of method, analysis & accreditation complete upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not come fully major accreditation in the State of Origin listed above for analysis/instrumentation 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. All requested sealed samples are current to date, unless the signed Chain of Custody stating to send our assistance to Eurofins TestAmerica.			
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) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/OC Requirements:			
Empty Kit Relinquished by: _____ Date: _____ Received by: <i>Matthew Jobs</i> Date: 9/11/20 1700 Received by: _____ Date: _____ Received by: _____ Date: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Yes No			

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Review Items	Yes	No	No	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: 7.0 °C CT: 7.0 °C / Cooler checked by cool in lab KFF/669 5103 7619 KLL 9/12/20
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10 °C) Thermometer ID: <u>5103</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: _____					

QA026R32.doc, 062719

Date: 9/12/20

Sample Receiving Associate: Kean Walker



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-109919-1

Login Number: 109919

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, 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

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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.



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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	

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

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

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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

- 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: 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

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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	

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Lab Chronicle

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

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

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

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

Lab Sample ID: 240-136127-2

Date Collected: 09/03/20 13:05

Matrix: Solid

Date Received: 09/04/20 11:00

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

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
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

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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.

Eurofins TestAmerica, Canton

Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login # : 136127

Canton Facility

Client Geo Sytec Site Name _____

Cooler unpacked by:

Cooler Received on 9-4-20 Opened on 9-4-20

Math Simpson

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: _____

Chain of Custody Record

Client Information (Sub Contract Lab)		Lab Pk: Brown, Shail		Cutter Testing (MS6)	
Client Contact: Shail Brown		E-Mail: Shail.Brown@Eurofins.net		State of Origin: Georgia	
Shipping/Receiving		Phone		Page: 1 of 1	
Company: TestAmerica Laboratories, Inc.		Address: 5815 Middlebrook Pk.		COC No: 240-136127-1	
City: Knoxville		State Zip: TN, 37921		Project: 18019022	
Phone: 865-291-3000 (Tel) 865-584-4315 (Fax)		Email: Wansley CCR		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - NaOH G - Another H - Ascorbic Acid I - Ice J - DI Water K - CDTA L - EDA Other:	
Project Name: CCR - Plant Wansley		SOW#: Wansley CCR		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Sample Date		Total Number of Containers	
WGWGC-19-87-88 (240-136127-1)		9/3/20		1	
WGWGC-19-89-90 (240-136127-2)		9/3/20		1	
NO CUSTOMY SEALS					
RECEIVED AT 0.6/CT 0.6/L					
BND 9-10-20					
1 CUSTOM SEAL # 91875012510 80					
Matrix (Wet, Dried, Other)		Sample Type (C=Comp, G=Grab)		Sample Time	
Solid		C-Comp		13:00 Eastern	
Solid		G-Grab		13:05 Eastern	
Analysis Requested		Sample Date		Sample Time	
6018B SEP/SEP1 MgSO4 (MOD) Step 1		9/3/20		13:00 Eastern	
6018B SEP/SEP2 NaOAc (MOD) Step 2		9/3/20		13:05 Eastern	
6018B SEP/SEP3 Oxalate (MOD) Step 3		9/3/20		13:05 Eastern	
6018B SEP/SEP4 Hydroxy (MOD) Step 4		9/3/20		13:05 Eastern	
6018B SEP/SEP5 Macro (MOD) Step 5		9/3/20		13:05 Eastern	
6018B SEP/SEP6 (MOD) SEP Totals (As Fe and Mn)		9/3/20		13:05 Eastern	
6018B SEP/SEP7 Col. Prep (MOD) Total		9/3/20		13:05 Eastern	
6018B SEP/SEP8 LM Prep (MOD) Step 7		9/3/20		13:05 Eastern	
6018B SEP/SEP9 Acid (MOD) Step 9		9/3/20		13:05 Eastern	
240-136127 Chain of Custody					
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analysis & accreditation compliance upon the subcontractor laboratories. This information is for informational purposes only and should not be used to replace the original accreditation. Any changes to accreditation should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to same comparison 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:	
Relinquished by: C. Rantz		Date: 9-9-20		Time: 1620	
Re-acquired by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seal Intact:		Custody Seal No.:		Cooler Temperature(s): °C and Other Remarks:	
1 Yes 3 No					

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>56168</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: [Signature] Date: 9-10-20 QA026R32.dox, 062719

