

Georgia Power Company
Plant Wansley Ash Pond
Heard County

2019 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT



CERTIFICATION STATEMENT

This 2019 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company - Plant Wansley Ash Pond has been prepared in compliance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations (CFR) 257 Subpart D] and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with:

ATLANTIC COAST CONSULTING, INC.

Evan B. Perry, P.E.
Project Manager
Date: January 31, 2020



I hereby certify that this 2019 Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company Plant Wansley Ash Pond (AP-1) located at 1371 Liberty Church Road, Carrollton, Georgia 30116, has been prepared to meet the requirements of 40 CFR §257.90(e).

Richard T. Deason, P.E.
CEO
Date: January 31, 2020

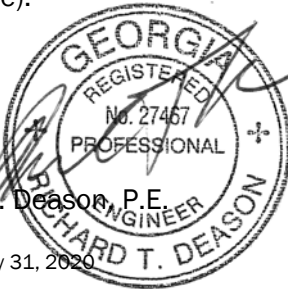


TABLE OF CONTENTS

Section	Page No.
1.0 INTRODUCTION	1
1.1 Site Description and Background	1
1.2 Regional Geology and Hydrogeologic Setting	1
1.3 Groundwater Monitoring System and CCR Unit Description	2
2.0 GROUNDWATER MONITORING ACTIVITIES	2
2.1 Monitoring Well Installation and Maintenance	2
2.2 Assessment Monitoring	2
2.3 Other Groundwater Sampling	2
3.0 SAMPLE METHODOLOGY & ANALYSIS	2
3.1 Groundwater Flow Direction, Gradient, and Velocity	3
3.2 Groundwater Sampling	3
3.3 Laboratory Analyses	4
3.4 Quality Assurance and Quality Control	4
4.0 STATISTICAL ANALYSIS	5
4.1 Statistical Methods	5
4.1.1 Appendix III Constituents	5
4.1.2 Assessment Monitoring Statistics	5
4.2 Statistical Analysis Results	6
4.2.1 First Semiannual Assessment Monitoring Event	6
4.2.2 Second Semiannual Assessment Monitoring Event	6
5.0 MONITORING PROGRAM STATUS	7
6.0 CONCLUSIONS & FUTURE ACTIONS	7
7.0 REFERENCES	7

Tables

- Table 1A – Groundwater Monitoring Network Well Construction Details
- Table 1B – Piezometer and Characterization Well Construction Details
- Table 2 – Groundwater Sampling Event Summary
- Table 3A – Summary of Groundwater Elevations – February 2019
- Table 3B – Summary of Groundwater Elevations – April 2019
- Table 3C – Summary of Groundwater Elevations – September 2019
- Table 4A – Groundwater Flow Velocity Calculation – April 2019
- Table 4B – Groundwater Flow Velocity Calculation – September 2019
- Table 5A – Summary of Groundwater Analytical Data – February 2019
- Table 5B – Summary of Groundwater Analytical Data – April 2019
- Table 5C – Summary of Groundwater Analytical Data – September 2019
- Table 6 – Summary of Statistical Methods
- Table 7 – Summary of Background Levels and Groundwater Protection Standards

Figures

- Figure 1 – Site Location Map
- Figure 2 – Well Location Map
- Figure 3 – Potentiometric Surface Contour Map – April 2019
- Figure 4 – Potentiometric Surface Contour Map – September 2019

Appendices

- Appendix A – Laboratory Analytical and Field Sampling Reports
- Appendix B – Statistical Analyses

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] Part 257, Subpart D) and the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.10, Atlantic Coast Consulting, Inc. (ACC), has prepared this *2019 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at the Georgia Power Company (GPC) Plant Wansley Ash Pond (the Site or AP-1). To specify groundwater monitoring requirements, EPD rule 391-3-4-.10(6)(a) incorporates by reference the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) § 257 Subpart D. For ease of reference, the US EPA CCR rules are cited within this report.

Groundwater monitoring and reporting for the CCR unit is performed in accordance with the requirements of § 257.90 through § 257.95 of the Federal CCR rule and the Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

A permit application to comply with EPD Rules was submitted in November 2018 and is currently under review. Monitoring for the CCR unit is performed in accordance with the monitoring requirements 40 CFR § 257.90 through 257.91 and § 257.93 through 257.95 of the Federal CCR rule, and the EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

This report documents activities completed for the groundwater monitoring program through the 2019 calendar year in accordance with 40 CFR § 257.90(e).

1.1 Site Description and Background

The Site is located at 1371 Liberty Church Road, approximately 12 miles southeast of the City of Carrollton, Georgia and is situated on approximately 5,100 acres (Figure 1, Site Location Map). The site is located northwest of the plant. Semiannual monitoring and reporting for the CCR unit is performed in accordance with the monitoring requirements of 40 CFR §257.90 through §257.95.

1.2 Regional Geology and Hydrogeologic Setting

The Site is located in the Piedmont physiographic province of Georgia, which is characterized by low, linear ridges separated by broad, open valleys trending northeast-southwest. The Piedmont region contains predominately metamorphic rock of Precambrian to Paleozoic age. Over geologic time the Piedmont has experienced multiple events of uplift, folding and faulting, alternation, and erosion.

Soils in the Piedmont formed mostly from the in-place weathering of the underlying crystalline bedrock. Near the ground surface, the soils are silt and clay-rich. Sand and fine sand become more prominent with depth. Also, with increasing depth the weathered materials tend to retain details of the structural features of the underlying bedrock.

The Site is situated on several bedrock types composed of schist, gneiss, quartzite, and amphibolite identified in boring logs. Residual soils are primarily sandy silt, silty sand, sandy clay, and silty clay which overlie bedrock across the site. Saprolitic soils were described at variable thickness across the site but were generally encountered at or near ground surface.

Groundwater occurs across the Site in the overburden soils, as well as in the underlying and hydraulically connected bedrock. The top of the rock surface generally follows topography and

generally controls groundwater flow direction in the uppermost aquifer as well. The predominant groundwater flow direction is to the south and east.

1.3 Groundwater Monitoring System and CCR Unit Description

Pursuant to § 257.91, a groundwater monitoring system was installed within the uppermost aquifer at the CCR Unit AP-1. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Units within the uppermost aquifer. Figure 2, Well Location Map, shows the monitoring well locations. Wells were located to serve as upgradient and downgradient monitoring points based on groundwater flow direction (Table 1A, Monitoring Network Well Summary, and Table 1B, Piezometer and Characterization Well Summary).

2.0 GROUNDWATER MONITORING ACTIVITIES

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed during the preceding year and discusses any change in status of the monitoring program. All groundwater sampling was performed in accordance with § 257.93. Samples were collected from each well in the certified monitoring system shown on Figure 2 in February, April, and September 2019.

2.1 Monitoring Well Installation and Maintenance

Two water level only piezometers (PZ-13 and PZ-21) were abandoned in the first half of 2019 to accommodate timber clearing activities. There were no other changes to the groundwater monitoring system in 2019; the network remained the same as in the 2018 (previous) reporting year. Monitoring well-related activities were limited to the following: visual inspection of well conditions prior to sampling, recording the site conditions, and performing exterior maintenance necessary for sampling under safe and clean conditions.

2.2 Assessment Monitoring

Based on results of the *2017 Annual Groundwater and Corrective Action Monitoring Report*, GPC initiated an assessment monitoring program on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. During 2019 monitoring wells were sampled for Appendix IV parameters in February as the initial Appendix IV sampling event. Monitoring wells were sampled for Appendix III and detected Appendix IV parameters in April and September 2019 as the semi-annual assessment monitoring events. Samples were collected from the monitoring network shown on Figure 2. A summary of groundwater sampling events completed in 2019 is provided in Table 2. Results of sampling activities conducted during 2019 are presented in Appendix A, Laboratory Analytical and Field Sampling Reports.

2.3 Other Groundwater Sampling

No additional sampling occurred during 2019.

3.0 SAMPLE METHODOLOGY & ANALYSIS

The following sections describe the methods used to conduct groundwater monitoring at the Site.

3.1 Groundwater Flow Direction, Gradient, and Velocity

Prior to each sampling event, groundwater levels were measured and recorded to the nearest 0.01 foot within a 24-hour period from the certified well network and piezometers at the Site. Groundwater levels recorded during the monitoring events are summarized in Tables 3A, 3B, and 3C, Summary of Groundwater Elevations – February 2019, April 2019, and September 2019, respectively. Groundwater levels and top of casing elevations were used to calculate groundwater elevations and develop the potentiometric surface elevation contour maps provided in Figure 3, Potentiometric Surface Contour Map – April 2019 and Figure 4, Potentiometric Surface Contour Map – September 2019. The general direction of groundwater flow across the site is to the southeast. The groundwater flow patterns observed during the 2019 monitoring events are consistent with historical observations.

The groundwater flow velocity at the site was calculated using a derivation of Darcy's Law.

Specifically:

Equation

$$v = \frac{K (dh/dl)}{P_e} \quad \text{where:} \quad \begin{array}{l} v = \text{ground water velocity} \\ K = \text{hydraulic conductivity} \\ dh/dl = \text{hydraulic gradient} \\ P_e = \text{effective porosity} \end{array}$$

Groundwater flow velocities were calculated for the Site based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.25 (based on a review of several sources, including Driscoll, 1986; US EPA, 1989; Freeze and Cherry, 1979). Groundwater flow velocities have been calculated and are tabulated on Tables 4A and 4B, Groundwater Flow Velocity Calculations – April 2019 and September 2019, respectively. The calculated flow velocity was approximately 0.20 and 0.21 feet per day during the April and September 2019 events, respectively.

3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Purging and sampling was performed using dedicated bladder pumps, non-dedicated bladder pumps, and peristaltic pumps. For wells sampled with non-dedicated bladder and peristaltic pumps, the intake was lowered to the midpoint of the well screen (or as appropriate determined by the water level). Peristaltic pump samples were collected using new disposable polyethylene tubing. All non-disposable equipment was decontaminated before use and between well locations.

Monitoring wells were purged and sampled using low-flow sampling procedures. A SmarTroll (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, oxidation-reduction potential, dissolved oxygen (DO), and temperature) during well purging prior to sampling. Turbidity was measured using a Hach 2100Q portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- ± 0.1 standard units for pH
- $\pm 10\%$ for specific conductance
- $\pm 10\%$ for DO where DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L.
- Turbidity measurements less than 10 nephelometric turbidity units (NTU)

Once stabilization was achieved, samples were collected directly into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to TestAmerica, Inc. (TAL) in Pittsburgh, Pennsylvania following chain-of-custody protocol. Stabilization logs for each well during each monitoring event are included in Appendix A.

3.3 Laboratory Analyses

Groundwater samples were collected during three groundwater monitoring events in 2019. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in Appendix A. Samples were analyzed for Appendix III and IV parameters detected above the laboratory method detection limit (MDL) during the February 2019 event in accordance with 40 CFR § 257.95(b). Parameters not detected above the laboratory MDL during the February 2019 event included: antimony and mercury.

Analytical data collected in respective 2019 monitoring events (February 2019, April 2019, and September 2019) are summarized in Tables 5A, 5B, and 5C, Summary of Groundwater Analytical Data – February 2019, April 2019, and September 2019, respectively.

Laboratory analyses were performed by TAL of Pittsburgh, Pennsylvania. TAL is accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintains a NELAP certification for all parameters analyzed for this project. In addition, TAL is certified to perform analysis by the State of Georgia. Laboratory reports and chain-of-custody records for the monitoring events are presented in Appendix A.

3.4 Quality Assurance and Quality Control

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

Groundwater quality data in this report were validated in accordance with US EPA guidance (US EPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post digestion spikes, laboratory and field duplicate relative percent differences (RPD), field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data using US EPA procedures as guidance (US EPA, 2017). A summary of the data validation is included in Appendix A.

Values followed by a "J" flag indicate that the value is an estimated analyte concentration detected between the MDL and the laboratory reporting limit (RL). The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions. "J" flagged data are used to establish background statistical limits but are not used when performing statistical analyses.

4.0 STATISTICAL ANALYSIS

Statistical analysis of Appendix III and IV groundwater monitoring data was performed on samples collected from the certified groundwater monitoring network pursuant to 40 CFR § 257.93 and following the appropriate PE-certified method. The statistical method used at the Site was developed by MacStat Consulting, Ltd, in accordance with 40 CFR § 257.93(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, EPA 530/R-09-007 (US EPA, 2009). To develop the statistical method, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix III parameter. Subsequent detection monitoring results were compared to the statistical limits to determine if concentrations were statistically different from background.

4.1 Statistical Methods

The Sanitas groundwater statistical software was used to perform the statistical analyses. Sanitas is a proprietary decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by US EPA regulations. Although Assessment Monitoring has been implemented, statistical evaluation of Appendix III constituents is performed to determine if constituents have returned to background conditions.

4.1.1 Appendix III Constituents

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits combined with a 1-of-2 verification resample plan for each of the Appendix III parameters. Interwell prediction limits 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 same limit for each parameter. A summary of the statistical methodology used at the Site for routine groundwater monitoring is provided in Table 6, Summary of Statistical Methods.

4.1.2 Assessment Monitoring Statistics

Parametric tolerance limits were used to calculate background limits from pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background limits were then used when determining the groundwater protection standard (GWPS) established under 40 CFR § 257.95(h) and EPD Rule 391-3-4-.10(6)(a).

As described in 40 CFR § 257.95(h)(1-3), the GWPS is:

- (1) The maximum contaminant level (MCL) established under § § 141.62 and 141.66 of this title;
- (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);
 - (iv) Molybdenum (0.1 mg/L).
- (3) Background levels for constituents where the background level is higher than the MCL or rule specified GWPS.

US EPA revised the Federal CCR Rule on July 30, 2018, providing GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR § 257.95(h)(2). Presently those updated GWPS have not yet been incorporated in the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); and therefore, background concentrations are the deferred GWPS for constituents where an MCL has not been established (or where background is higher than the MCL), and used to evaluate the existence of a statistically significant level (SSL). Under the existing GA EPD rules, the GWPS is:

- (1) The 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. Table 7, Summary of Background Levels and Groundwater Protection Standards, summarizes the background limit established at each monitoring well and the GWPS established under State and Federal rules.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS established under the State and Federal rules. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed the GWPS at an SSL.

4.2 Statistical Analysis Results

Analytical data from the April and September 2019 semiannual monitoring events were statistically analyzed in accordance with the PE-certified Statistical Analysis Plan (October 2017). Appendix III statistical analysis was performed to determine if constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if concentrations statistically exceeded the established GWPS. The statistical analysis and comparison to prediction limits are included as Appendix B, Statistical Analyses.

Based on review of the Appendix III statistical analysis presented in Appendix B, Appendix III constituents have not returned to background levels. Exceedances were noted and are presented on the prediction limit summary table included in Appendix B. Because the site is in Assessment Monitoring, no resamples will be collected at this time; however, concentrations will continue to be monitored and evaluated during the next subsequent sample event.

4.2.1 First Semiannual Assessment Monitoring Event

Statistical analysis of Appendix IV data identified an Appendix IV constituent (lithium) to be at an SSL above the established GWPS for four groundwater monitoring wells. The lower 95% confidence level for lithium at WGWC-8, WGWC-9, WGWC-10, and WGWC-19 statistically exceeded the state-derived GWPS. Only the lower 95% confidence level for lithium at WGWC-19 exceeded the federally derived GWPS.

4.2.2 Second Semiannual Assessment Monitoring Event

Statistical analysis of Appendix IV data identified SSLs of lithium above the GWPS at three wells during the second semiannual event. The lower 95% confidence level for lithium at WGWC-8, WGWC-9, and WGWC-19 statistically exceeded the state-derived GWPS. Only the lower 95% confidence level for lithium at WGWC-19 exceeded the federally derived GWPS.

5.0 MONITORING PROGRAM STATUS

In accordance with 40 CFR § 257.94(e), Georgia Power implemented assessment monitoring in January 2018. SSIs of Appendix III and SSLs of Appendix IV parameters were identified at the Ash Pond during the sampling events conducted in 2019. An alternate source demonstration (ASD) for lithium was included in the *2018 Annual Groundwater Monitoring and Corrective Action Report*. The demonstration showed the source of lithium in groundwater is naturally-derived from the subsurface rock formation, and therefore, the SSL for lithium is not due to a release from the unit. The Site remains in assessment monitoring due to SSIs for Appendix III parameters.

6.0 CONCLUSIONS & FUTURE ACTIONS

Statistical evaluations of the groundwater monitoring data for the Site identified SSIs of Appendix III groundwater monitoring parameters above background and SSLs of an Appendix IV groundwater monitoring parameter above a GWPS. In accordance with 40 CFR § 257.95(g)(3), Georgia Power prepared an ASD for lithium in 2018 that concludes the source is naturally derived from the subsurface rock formation, and therefore, the state and federal SSLs for lithium are not due to a release from the unit. Because the monitoring data show SSIs for Appendix III parameters, this CCR unit will remain in assessment monitoring. The next monitoring event is planned for the first quarter of 2020.

7.0 REFERENCES

- Atlantic Coast Consulting, Inc. (ACC), *Alternate Source Demonstration – Plant Wansley Ash Pond*, January 2019.
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TABLES

Table 1A
Groundwater Monitoring Network Well Construction Details

Well	Installation Date (mm/dd/yyyy)	Bottom Depth (ft BTOC)	Bottom Elevation (ft MSL)	Depth to Top of Screen (ft BTOC)	Top of Screen Elevation (ft MSL)	Purpose
WGWA-1	10/21/2015	129.86	653.00	119.86	663.00	Upgradient
WGWA-2	10/16/2015	102.65	655.64	92.65	665.64	Upgradient
WGWA-3	12/15/2014	19.00	810.00	9.00	820.00	Upgradient
WGWA-4	01/13/2015	73.90	760.40	63.90	770.40	Upgradient
WGWA-5	12/23/2014	23.60	878.50	13.60	888.50	Upgradient
WGWA-6	01/13/2015	104.50	792.60	94.50	802.60	Upgradient
WGWA-7	12/22/2014	39.60	857.80	29.60	867.80	Upgradient
WGWA-18	12/16/2014	39.60	838.50	29.60	848.50	Upgradient
WGWC-8	10/29/2015	59.63	720.37	49.63	730.37	Downgradient
WGWC-9	12/04/2014	61.08	751.00	51.08	761.00	Downgradient
WGWC-10	10/27/2015	148.98	663.61	138.98	673.61	Downgradient
WGWC-11	10/21/2015	49.50	774.50	39.50	784.50	Downgradient
WGWC-12	01/22/2017	76.57	746.55	66.57	756.55	Downgradient
WGWC-13	11/14/2015	95.55	714.49	85.55	724.49	Downgradient
WGWC-14A	01/31/2017	43.08	768.01	33.08	778.01	Downgradient
WGWC-15	11/11/2015	53.36	751.62	43.36	761.62	Downgradient
WGWC-16	11/11/2015	34.78	769.71	24.78	779.71	Downgradient
WGWC-17	11/06/2015	95.94	720.08	85.94	730.08	Downgradient
WGWC-19	10/28/2017	94.84	688.60	84.84	698.60	Downgradient

Notes:

1. ft BTOC indicates feet below top of casing.
2. ft MSL indicates feet mean sea level.

Table 1B
Piezometer and Characterization Well Construction Details

Well	Installation Date (mm/dd/yyyy)	Bottom Depth (ft BTOC)	Bottom Elevation (ft MSL)	Depth to Top of Screen (ft BTOC)	Top of Screen Elevation (ft MSL)	Purpose
PZ-1	12/12/2014	46.10	810.68	36.10	820.68	Piezometer
PZ-4	12/22/2014	17.00	872.09	7.00	882.09	Piezometer
PZ-6	12/17/2014	23.00	892.33	13.00	902.33	Piezometer
PZ-8	12/15/2014	37.50	845.34	27.50	855.34	Piezometer
PZ-10	12/05/2014	30.00	802.16	20.00	812.16	Piezometer
PZ-11	12/05/2014	30.00	792.99	20.00	802.99	Piezometer
PZ-12	12/08/2014	47.00	771.88	37.00	781.88	Piezometer
PZ-13*	12/09/2014	56.90	793.14	46.90	803.14	Piezometer
PZ-15	12/10/2014	37.00	789.96	27.00	799.96	Piezometer
PZ-16	12/11/2014	24.50	776.05	14.50	786.05	Piezometer
PZ-17	12/11/2014	48.00	783.21	38.00	793.21	Piezometer
PZ-18	12/11/2014	37.00	777.22	27.00	787.22	Piezometer
PZ-20	01/31/2017	35.00	752.27	25.00	762.27	Piezometer
PZ-21*	01/25/2017	30.00	784.71	20.00	794.71	Piezometer
WAMW-1	09/16/2018	124.14	658.76	114.14	668.76	Characterization
WAMW-2	09/14/2018	86.14	681.72	76.14	691.72	Characterization

Notes:

1. ft BTOC indicates feet below top of casing.
2. ft MSL indicates feet mean sea level.
3. * - Indicates piezometer was abandoned in 2019.

Table 2
Groundwater Sampling Event Summary for 2019

Well	Hydraulic Location	Feb. 25-28, 2019	Apr. 1-4, 2019	Sept. 16-19, 2019
Purpose of Sampling Event		Assessment	First 2019 Semiannual	Second 2019 Semiannual
WGWA-1	Upgradient	Scan	A-03	A-04
WGWA-2	Upgradient	Scan	A-03	A-04
WGWA-3	Upgradient	Scan	A-03	A-04
WGWA-4	Upgradient	Scan	A-03	A-04
WGWA-5	Upgradient	Scan	A-03	A-04
WGWA-6	Upgradient	Scan	A-03	A-04
WGWA-7	Upgradient	Scan	A-03	A-04
WGWA-18	Upgradient	Scan	A-03	A-04
WGWC-8	Downgradient	Scan	A-03	A-04
WGWC-9	Downgradient	Scan	A-03	A-04
WGWC-10	Downgradient	Scan	A-03	A-04
WGWC-11	Downgradient	Scan	A-03	A-04
WGWC-12	Downgradient	Scan	A-03	A-04
WGWC-13	Downgradient	Scan	A-03	A-04
WGWC-14A	Downgradient	Scan	A-03	A-04
WGWC-15	Downgradient	Scan	A-03	A-04
WGWC-16	Downgradient	Scan	A-03	A-04
WGWC-17	Downgradient	Scan	A-03	A-04
WGWC-19	Downgradient	Scan	A-03	A-04

Notes:

1. Scan = All Appendix IV.
2. A-XX = Assessment Event Number (Appendix III and Detected Appendix IV).

Table 3A
Summary of Groundwater Elevations
February 2019

Well ID	TOC Elevation (ft MSL)	Depth-to-Water (ft BTOC)	Groundwater Elevation (ft MSL)
WGWA-1	782.86	21.91	760.95
WGWA-2	758.29	7.28	751.01
WGWA-3	829.00	2.05	826.95
WGWA-4	834.30	1.80	832.50
WGWA-5	902.10	7.62	894.48
WGWA-6	897.10	9.87	887.23
WGWA-7	897.40	17.74	879.66
WGWA-18	878.10	13.24	864.86
WGWC-8	780.00	0.95	779.05
WGWC-9	812.08	15.70	796.38
WGWC-10	812.59	16.32	796.27
WGWC-11	824.00	19.67	804.33
WGWC-12	823.12	18.81	804.31
WGWC-13	810.04	14.44	795.60
WGWC-14A	811.09	14.01	797.08
WGWC-15	804.98	13.94	791.04
WGWC-16	804.49	13.15	791.34
WGWC-17	816.02	23.22	792.80
WGWC-19	783.44	16.31	767.13
PZ-1	856.78	36.62	820.16
PZ-4	889.09	10.94	878.15
PZ-6	915.33	17.87	897.46
PZ-8	882.84	29.34	853.50
PZ-10	832.16	20.40	811.76
PZ-11	822.99	17.38	805.61
PZ-12	818.88	23.14	795.74
PZ-13	850.04	52.42	797.62
PZ-15	826.96	24.90	802.06
PZ-16	800.55	9.23	791.32
PZ-17	831.21	36.02	795.19
PZ-18	814.22	10.15	804.07
PZ-20	787.27	8.52	778.75
PZ-21	814.71	17.31	797.40
WAMW-1	782.90	17.75	765.15
WAWM-2	767.86	10.96	756.90

Notes:

1. ft BTOC indicates feet below top of casing.
2. ft MSL indicates feet mean sea level.
3. Depths to water measured February 25, 2019.

Table 3B
Summary of Groundwater Elevations
April 2019

Well ID	TOC Elevation (ft MSL)	Depth-to-Water (ft BTOC)	Groundwater Elevation (ft MSL)
WGWA-1	782.86	23.01	759.85
WGWA-2	758.29	9.09	749.20
WGWA-3	829.00	2.46	826.54
WGWA-4	834.30	3.18	831.12
WGWA-5	902.10	9.46	892.64
WGWA-6	897.10	11.06	886.04
WGWA-7	897.40	18.80	878.60
WGWA-18	878.10	14.95	863.15
WGWC-8	780.00	3.90	776.10
WGWC-9	812.08	16.26	795.82
WGWC-10	812.59	15.98	796.61
WGWC-11	824.00	20.09	803.91
WGWC-12	823.12	19.14	803.98
WGWC-13	810.04	17.23	792.81
WGWC-14A	811.09	17.32	793.77
WGWC-15	804.98	14.84	790.14
WGWC-16	804.49	14.25	790.24
WGWC-17	816.02	24.11	791.91
WGWC-19	783.44	17.18	766.26
PZ-1	856.78	36.53	820.25
PZ-4	889.09	17.75	871.34
PZ-6	915.33	18.97	896.36
PZ-8	882.84	29.35	853.49
PZ-10	832.16	25.09	807.07
PZ-11	822.99	18.45	804.54
PZ-12	818.88	23.31	795.57
PZ-13	850.04	48.02	802.02
PZ-15	826.96	23.10	803.86
PZ-16	800.55	10.84	789.71
PZ-17	831.21	36.51	794.70
PZ-18	814.22	13.76	800.22
PZ-20	787.27	10.24	777.03
PZ-21	814.71	15.81	798.90
WAMW-1	782.90	18.02	764.88
WAWM-2	767.86	11.51	756.35

Notes:

1. ft BTOC indicates feet below top of casing.
2. ft MSL indicates feet mean sea level.
3. Depths to water measured April 1, 2019.

Table 3C
Summary of Groundwater Elevations
September 2019

Well ID	TOC Elevation (ft MSL)	Depth-to-Water (ft BTOC)	Groundwater Elevation (ft MSL)
WGWA-1	782.86	29.01	753.85
WGWA-2	758.29	14.03	744.26
WGWA-3	829.00	4.68	824.32
WGWA-4	834.30	7.40	826.90
WGWA-5	902.10	17.73	884.37
WGWA-6	897.10	17.54	879.56
WGWA-7	897.40	28.12	869.28
WGWA-18	878.10	21.64	856.46
WGWC-8	780.00	7.10	772.90
WGWC-9	812.08	20.38	791.70
WGWC-10	812.59	18.31	794.28
WGWC-11	824.00	25.27	798.73
WGWC-12	823.12	24.89	798.23
WGWC-13	810.04	24.83	785.21
WGWC-14A	811.09	25.18	785.91
WGWC-15	804.98	20.82	784.16
WGWC-16	804.49	20.04	784.45
WGWC-17	816.02	30.22	785.80
WGWC-19	783.44	20.66	762.78
PZ-1	856.78	38.12	818.66
PZ-4	889.09	20.00	869.09
PZ-6	915.33	24.79	890.54
PZ-8	882.84	29.47	853.37
PZ-10	832.16	28.63	803.53
PZ-11	822.99	23.73	799.26
PZ-12	818.88	28.20	790.68
PZ-15	826.96	28.37	798.59
PZ-16	800.55	13.50	787.05
PZ-17	831.21	39.98	791.23
PZ-18	814.22	18.85	795.37
PZ-20	787.27	17.45	769.82
WAMW-1	782.90	21.12	761.78
WAWM-2	767.86	14.37	753.49

- Notes:
2. ft BTOC indicates feet below top of casing.
 4. ft MSL indicates feet mean sea level.
 5. Depths to water measured September 13, 2019.

Table 4A
Groundwater Flow Velocity Calculation
April 2019

Equation

$$v = \frac{K (i)}{P_e}$$

where: v = ground water velocity
 K = hydraulic conductivity
 i = hydraulic gradient
 P_e = effective porosity

Values Used in Calculation

	Value		Source
K =	2.4E-04	cm/sec	See note 1.
	0.67	ft/day	
i ₁ =	0.068	unitless	Hydraulic gradient from from WGWA-3 to WGWC-17 from PZ-10 to WGWC-19
i ₂ =	0.085	unitless	
i =	0.076	unitless	Average (i ₁ , i ₂)
P _e =	0.25	unitless	See note 1.

Calculation

$$v = \frac{(0.67)(0.076)}{0.25} \qquad v = 0.20 \text{ ft/day}$$

Notes

- (1) Plant Wansley Proposed Combustion By-Product Disposal Facility -
 Site Acceptability Report

Table 4B
Groundwater Flow Velocity Calculation
September 2019

Equation

$$v = \frac{K (i)}{P_e}$$

where: v = ground water velocity
 K = hydraulic conductivity
 i = hydraulic gradient
 P_e = effective porosity

Values Used in Calculation

Value			Source
K =	2.4E-04 0.67	cm/sec ft/day	See note 1.
i ₁ =	0.075	unitless	Hydraulic gradient from from WGWA-3 to WGWC-17 from PZ-10 to WGWC-19
i ₂ =	0.085	unitless	
i =	0.080	unitless	Average (i ₁ , i ₂)
P _e =	0.25	unitless	See note 1.

Calculation

$$v = \frac{(0.67) (0.08)}{0.25} \qquad v = 0.21 \text{ ft/day}$$

Notes

- (1) Plant Wansley Proposed Combustion By-Product Disposal Facility -
 Site Acceptability Report

Table 5A
Summary of Groundwater Analytical Data
February 2019

Substance	MCL/ (SMCL)	WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	
		2/25/2019	2/25/2019	2/26/2019	2/26/2019	2/26/2019	2/26/2019	2/26/2019	2/26/2019	
Appendix IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	ND
	Arsenic	0.01	ND	ND	ND	ND (0.00033 J)	ND	ND	ND	ND (0.00054 J)
	Barium	2	0.049	0.027	0.014	0.012	0.020	0.011	0.013	0.015
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND (0.0016 J)	ND	ND	ND (0.0021 J)	ND	ND (0.0023 J)	ND	ND (0.0016 J)
	Cobalt	N/R	ND (0.00085 J)	ND (0.00083 J)	ND	ND (0.00029 J)	ND (0.00060 J)	ND (0.00031 J)	ND (0.00017 J)	ND (0.00026 J)
	Fluoride	4	ND	ND (0.032 J)	ND	ND (0.14 J)	ND	ND (0.074 J)	ND	0.23
	Lead	0.015	ND	ND (0.00019 J)	ND	ND (0.00046 J)	ND (0.00028 J)	ND (0.00037 J)	ND	ND
	Lithium	N/R	ND (0.0049 J)	0.0072	ND	0.0069	ND	0.0068	ND	ND
	Mercury	0.002	ND	ND	ND	ND	ND	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND (0.0019 J)
	Radium	5	0.394	0.440	0.179 U	0.650	0.113 U	8.93	0.395	0.307 U
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 5A
Summary of Groundwater Analytical Data
February 2019

Substance	MCL/ (SMCL)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	
		2/27/2019	2/28/2019	2/27/2019	2/27/2019	2/27/2019	2/27/2019	2/27/2019	2/27/2019	
Appendix IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	
	Arsenic	0.01	ND (0.00047 J)	ND	ND	ND	ND	ND (0.00036 J)	0.0015	
	Barium	2	ND	ND (0.0023 J)	0.040	0.040	0.016	0.054	0.028	0.023
	Beryllium	0.004	ND (0.0021 J)	ND (0.00031 J)	ND	ND	ND	ND	ND (0.00017 J)	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	0.0025	0.0031	ND (0.0021 J)	ND	ND (0.0018 J)	ND	ND (0.0015 J)
	Cobalt	N/R	ND (0.0019 J)	ND	ND (0.00050 J)	ND (0.0022 J)	ND (0.00060 J)	ND (0.00013 J)	0.0049	ND
	Fluoride	4	ND (0.054 J)	1.4	0.21	ND (0.047 J)	ND (0.060 J)	0.25	ND	0.81
	Lead	0.015	ND (0.00017 J)	ND (0.00014 J)	ND (0.00023 J)	ND (0.00058 J)	ND	ND (0.00068 J)	ND	ND
	Lithium	N/R	0.014	0.037	0.0068	ND	0.0068	ND	ND	0.0055
	Mercury	0.002	ND	ND	ND	ND	ND	ND	ND	ND
	Molybdenum	N/R	ND	0.0053	ND	ND	ND (0.00063 J)	ND (0.0019 J)	ND	0.0061
	Radium	5	2.42	0.271 U	0.236 U	0.374	0.415	1.08	0.538	0.363 U
	Selenium	0.05	0.0035	0.0027	ND	ND	ND	ND	ND	ND
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND (0.00016 J)	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 5A
Summary of Groundwater Analytical Data
February 2019

Substance	MCL/ (SMCL)	WGWC-16	WGWC-17	WGWC-19	
		2/27/2019	2/26/2019	2/28/2019	
Appendix IV	Antimony	0.006	ND	ND	ND
	Arsenic	0.01	ND (0.00046 J)	ND (0.00050 J)	ND
	Barium	2	0.028	0.012	ND
	Beryllium	0.004	ND (0.00022 J)	ND	ND
	Cadmium	0.005	ND (0.00055 J)	ND	ND
	Chromium	0.1	ND	ND	ND
	Cobalt	N/R	ND (0.00084 J)	ND (0.00086 J)	ND (0.00019 J)
	Fluoride	4	0.47	ND (0.068 J)	0.28
	Lead	0.015	ND (0.00014 J)	ND (0.00033 J)	ND
	Lithium	N/R	0.0075	0.0063	0.045
	Mercury	0.002	ND	ND	ND
	Molybdenum	N/R	ND	ND (0.0032 J)	ND (0.0013 J)
	Radium	5	0.721	0.431	0.254 U
	Selenium	0.05	0.0081	ND	ND
Thallium	0.002	ND (0.00015 J)	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 5B
Summary of Groundwater Analytical Data
April 2019

Substance	MCL/ (SMCL)	WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	
		4/1/2019	4/1/2019	4/2/2019	4/2/2019	4/2/2019	4/2/2019	4/2/2019	4/2/2019	
Appendix III	Boron	N/R	ND	ND	ND	ND	ND	ND	ND	
	Calcium	N/R	1.0	12	1.8	15	1.1	25	1.1	20
	Chloride	(250)	4.0	2.4	1.7	1.2	1.7	1.5	1.9	2.6
	Fluoride	4	ND	ND (0.061 J)	ND (0.039 J)	ND (0.14 J)	ND	ND (0.090 J)	ND	0.21
	Sulfate	(250)	ND	1.0	1.1	8.1	ND (0.94 J)	8.5	ND (0.40 J)	11
	TDS	(500)	ND	63	28	100	25	110	15	100
Appendix IV	Arsenic	0.01	ND	ND	ND	ND	ND	ND	ND	
	Barium	2	0.044	0.027	0.014	0.0056	0.016	0.0069	0.011	0.014
	Beryllium	0.004	ND	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND	ND	ND	ND	ND	ND	ND
	Cobalt	N/R	ND (0.00079 J)	ND (0.00082 J)	ND	ND	ND (0.00046 J)	ND	ND	ND
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND (0.0044 J)	0.0055	ND	ND (0.0036 J)	ND (0.0016 J)	0.0052	ND	ND (0.0012 J)
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND	ND	ND
	Radium	5	0.169 U	-0.00216 U	0.361	0.602	0.255 U	7.80	0.182 U	0.0436 U
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 5B
Summary of Groundwater Analytical Data
April 2019

Substance	MCL/ (SMCL)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
		4/3/2019	4/3/2019	4/4/2019	4/3/2019	4/3/2019	4/3/2019	4/3/2019	4/4/2019
Appendix III	Boron	N/R	1.7	0.35	ND (0.024 J)	ND	ND	ND	ND
	Calcium	N/R	61	7.2	7.9	1.7	14	4.7	0.84
	Chloride	(250)	70	2.0	1.4	3.3	3.0	1.2	2.4
	Fluoride	4	0.50	1.3	ND (0.13 J)	ND (0.048 J)	ND (0.084 J)	0.24	ND (0.048 J)
	Sulfate	(250)	180	41	2.2	1.9	13	3.8	3.8
	TDS	(500)	430	120	30	ND	66	72	31
Appendix IV	Arsenic	0.01	ND	ND	ND	ND	ND	ND (0.00053 J)	ND
	Barium	2	ND (0.0010 J)	ND	0.040	0.035	0.015	0.056	0.026
	Beryllium	0.004	ND (0.0019 J)	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND	ND (0.0021 J)	ND	ND	ND	ND
	Cobalt	N/R	0.0037	ND	ND (0.0017 J)	ND (0.00081 J)	ND (0.00043 J)	ND	0.0056
	Lead	0.015	ND	ND	ND	ND	ND	ND (0.00047 J)	ND
	Lithium	N/R	0.015	0.035	0.0059	ND	0.0075	ND	ND (0.0015 J)
	Molybdenum	N/R	ND	ND (0.0026 J)	ND	ND	ND	ND	ND (0.0039 J)
	Radium	5	1.55	0.0621 U	0.233 U	0.187 U	0.264 U	0.446	0.497
	Selenium	0.05	0.0031	0.0019	ND	ND	ND	ND	ND
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND (0.00012 J)	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 5B
Summary of Groundwater Analytical Data
April 2019

Substance	MCL/ (SMCL)	WGWC-16	WGWC-17	WGWC-19	
		4/4/2019	4/4/2019	4/2/2019	
Appendix III	Boron	N/R	3.2	ND (0.049 J)	ND
	Calcium	N/R	110	5.6	11
	Chloride	(250)	170	1.4	2.5
	Fluoride	4	ND (0.080 J)	ND (0.087 J)	0.33
	Sulfate	(250)	250	9.1	3.8
	TDS	(500)	710	89	88
Appendix IV	Arsenic	0.01	ND	ND	ND
	Barium	2	0.027	0.011	ND (0.0013 J)
	Beryllium	0.004	ND	ND	ND
	Cadmium	0.005	ND (0.00047 J)	ND	ND
	Chromium	0.1	ND	ND	ND
	Cobalt	N/R	ND (0.00077 J)	ND	ND
	Lead	0.015	ND	ND	ND
	Lithium	N/R	0.0077	ND (0.0042 J)	0.052
	Molybdenum	N/R	ND	ND (0.0020 J)	ND
	Radium	5	0.632	0.386	0.209 U
	Selenium	0.05	0.0091	ND	ND
Thallium	0.002	ND (0.000095 J)	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 5C
Summary of Groundwater Analytical Data
September 2019

Substance	MCL/ (SMCL)	WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	
		9/16/2019	9/17/2019	9/18/2019	9/17/2019	9/16/2019	9/16/2019	9/18/2019	9/17/2019	
Appendix III	Boron	N/R	ND	ND	ND	ND	ND	ND	ND	
	Calcium	N/R	1.3	13	1.6	16	36	25	1.5	10
	Chloride	(250)	4.0	2.4	1.7	1.2	1.8	1.5	2.0	2.0
	Fluoride	4	ND (0.030 J)	ND (0.061 J)	ND (0.033 J)	ND (0.14 J)	ND	ND (0.10 J)	ND (0.027 J)	ND (0.079 J)
	Sulfate	(250)	ND (0.49 J)	1.3	ND (0.78 J)	8.1	2.2	8.9	ND	8.0
	TDS	(500)	27	120	36	120	41	110	35	76
Appendix IV	Arsenic	0.01	ND	ND (0.00033 J)	ND	ND (0.00035 J)	ND	ND (0.00036 J)	ND	ND (0.00040 J)
	Barium	2	0.050	0.024	0.013	ND (0.0063 J)	0.027	ND (0.0073 J)	0.012	0.013
	Beryllium	0.004	ND (0.00032 J)	ND (0.00019 J)	ND	ND	ND (0.00036 J)	0.0011	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND (0.0016 J)	ND (0.0017 J)	ND	ND	ND	ND	ND	ND
	Cobalt	N/R	0.00082	0.00063	ND	ND	0.0035	ND (0.000091 J)	ND (0.00020 J)	0.0012
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND (0.0040 J)	0.0083	ND	ND (0.0049 J)	0.028	0.032	ND	ND
	Molybdenum	N/R	ND	ND	ND	ND	ND (0.0010 J)	ND (0.0010 J)	ND	ND
	Radium	5	0.310 U	0.165 U	0.189 U	0.788	0.318 U	8.55	0.299 U	0.263 U
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	0.002	ND (0.00016 J)	ND	ND	ND	ND	ND (0.00062 J)	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 5C
Summary of Groundwater Analytical Data
September 2019

Substance	MCL/ (SMCL)	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	
		9/19/2019	9/19/2019	9/19/2019	9/19/2019	9/19/2019	9/18/2019	9/18/2019	9/18/2019	
Appendix III	Boron	N/R	1.7	0.39	ND	ND	ND	ND	ND	
	Calcium	N/R	57	8.1	7.5	1.4	14	4.9	31	
	Chloride	(250)	70	1.5	1.5	3.2	3.2	1.2	3.2	
	Fluoride	4	0.42	1.3	ND (0.13 J)	ND (0.037 J)	ND (0.093 J)	0.22	ND (0.035 J)	0.81
	Sulfate	(250)	190	42	2.1	1.3	14	3.9	1.7	37
	TDS	(500)	440	130	52	27	89	110	33	160
Appendix IV	Arsenic	0.01	ND (0.00032 J)	ND	ND (0.00038 J)	ND	ND	ND (0.00039 J)	ND	0.0016
	Barium	2	ND	ND (0.0018 J)	0.038	0.033	0.016	0.062	0.025	0.026
	Beryllium	0.004	0.0019	ND (0.00041 J)	ND	ND	ND	ND	ND (0.00032 J)	ND
	Cadmium	0.005	ND	ND	ND (0.00021 J)	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND	0.0022	ND	ND	ND	ND	ND
	Cobalt	N/R	0.0028	ND	0.0023	ND	ND (0.00028 J)	ND	0.0050	ND
	Lead	0.015	ND	ND	ND (0.00041 J)	ND	ND	ND (0.00045 J)	ND	ND
	Lithium	N/R	0.014	0.036	0.0075	ND	0.0067	ND	ND	0.0054
	Molybdenum	N/R	ND	ND (0.0048 J)	ND	ND	ND (0.00073 J)	ND (0.0021 J)	ND	0.0052
	Radium	5	2.06	0.537	0.124 U	0.338 U	0.329 U	0.392	0.376 U	0.484
	Selenium	0.05	ND (0.0021 J)	ND (0.0026 J)	ND	ND	ND	ND	ND	ND
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 5C
Summary of Groundwater Analytical Data
September 2019

Substance	MCL/ (SMCL)	WGWC-16	WGWC-17	WGWC-19	
		9/18/2019	9/18/2019	9/18/2019	
Appendix III	Boron	N/R	2.1	ND	ND
	Calcium	N/R	62	5.5	8.8
	Chloride	(250)	100	1.5	2.7
	Fluoride	4	ND (0.058 J)	ND (0.066 J)	0.32
	Sulfate	(250)	130	7.3	3.6
	TDS	(500)	520	79	96
Appendix IV	Arsenic	0.01	ND	ND	ND
	Barium	2	0.032	0.011	ND
	Beryllium	0.004	ND	ND	ND
	Cadmium	0.005	ND (0.00017 J)	ND	ND
	Chromium	0.1	ND	ND	ND
	Cobalt	N/R	ND (0.00011 J)	ND (0.00018 J)	ND (0.00045 J)
	Lead	0.015	ND	ND	ND
	Lithium	N/R	0.0056	ND (0.0047 J)	0.052
	Molybdenum	N/R	ND	ND (0.0026 J)	ND (0.0011 J)
	Radium	5	0.278 U	0.167 U	0.403 U
	Selenium	0.05	ND (0.0044 J)	ND	ND
Thallium	0.002	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 6
Statistical Method Summary

Plant Wansley AP Statistical Method Summary		
Monitoring Well Network	Upgradient Wells	WGWA-1, WGWA-2, WGWA-3, WGWA-4, WGWA-5, WGWA-6, WGWA-7, and WGWA-18
	Downgradient Wells	WGWC-8, WGWC-9, WGWC-10, WGWC-11, WGWC-12, WGWC-13, WGWC-14A, WGWC-15, WGWC-16, WGWC-17 and WGWC-19
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, Calcium, Chloride, Fluoride, pH, Sulfate, and TDS
	Appendix IV (Assessment Monitoring)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, combined Radium 226 + 228, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, and Thallium
Statistical Methodology	Data Screening Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available
	Statistical Limits	Interwell statistical limits

Table 7
Summary of Background Levels and Groundwater Protection Standards

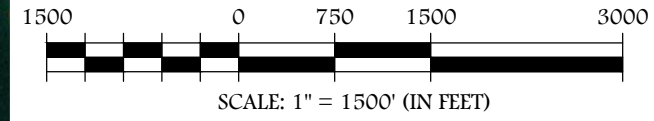
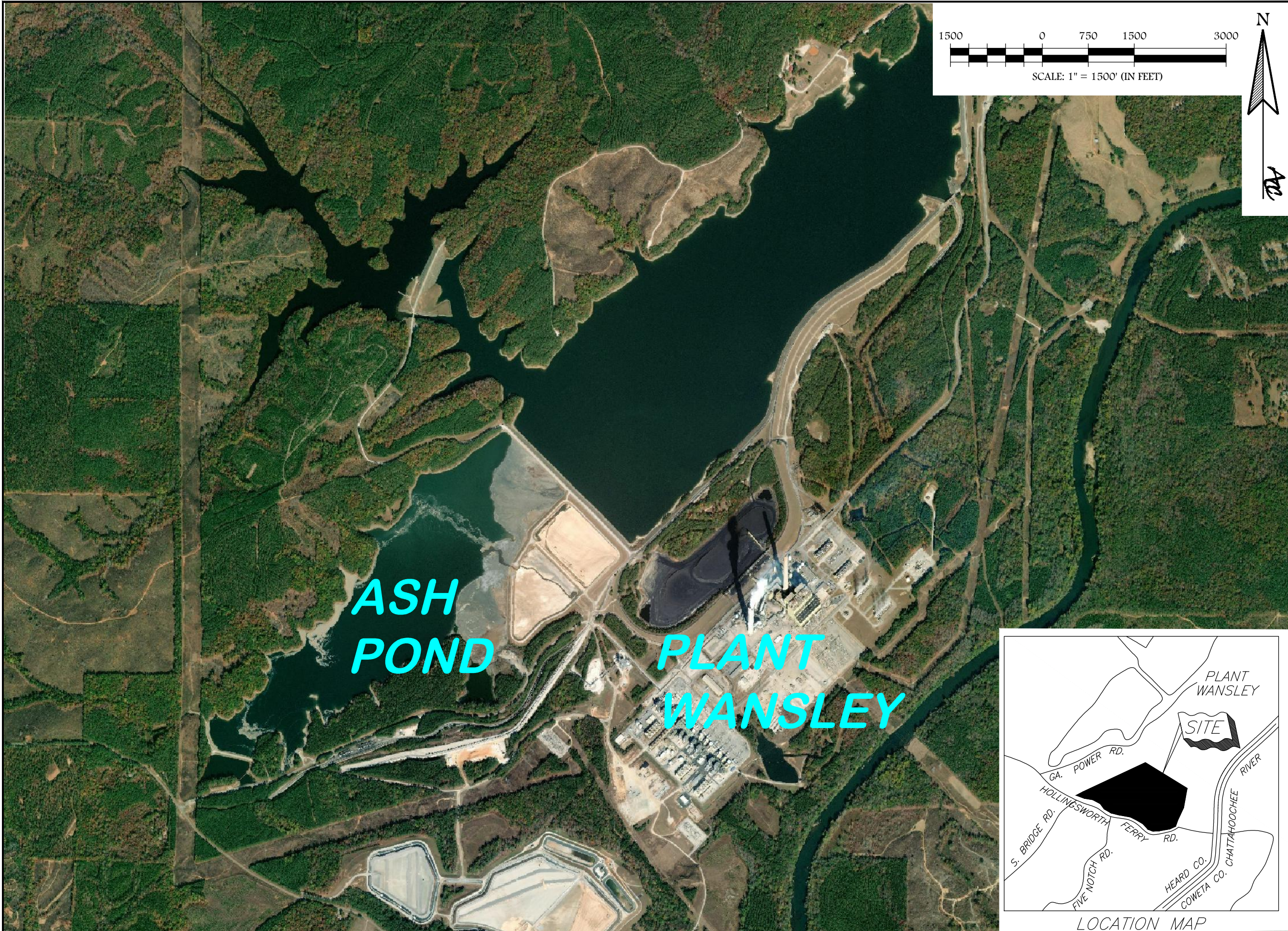
Constituent	Site Background	Federal GWPS	State GWPS
Arsenic	0.0014	0.010	0.010
Barium	0.062	2	2
Beryllium	0.0025	0.004	0.004
Cadmium	0.0025	0.005	0.005
Chromium	0.0031	0.1	0.1
Cobalt	0.013	0.013	0.013
Fluoride	0.21	4	4
Lead	0.0013	0.015	0.015
Lithium	0.009	0.040	0.009
Molybdenum	0.015	0.1	0.015
Radium	10.4	10.4	10.4
Selenium	0.0028	0.050	0.050
Thallium	0.0005	0.002	0.002

Notes:

1. Site Background = Tolerance limits calculated from pooled upgradient well data.
2. Federal GWPS = Groundwater protection standard, per 257.95(h)(1-3).
3. State GWPS = Groundwater protection standard, per Georgia EPD Rule 391-3-4-.10(6)(a).
4. Units are milligrams per liter (mg/L), except for radium, which are picocuries per liter.

FIGURES

P:\Industrial\054 - Southern Company\110 - Groundwater Consulting Services 2018 - 2021\Plant Wansley\2 - Semi-Annual GWMFs\2nd 2019 AP SA\DWG\Plant Wansley Ash Pond - Site Location Map.dwg 2019-11-20 MATT MALONE



ATLANTIC COAST
CONSULTING, INC.
1150 Northmeadow Pkwy.
Suite 100
Roswell, GA 30076
770.594.5998
www.atlcc.net

PROJECT:
PLANT WANSLEY
ASH POND

1371 LIBERTY CHURCH ROAD
CARROLLTON, GEORGIA

REVISIONS

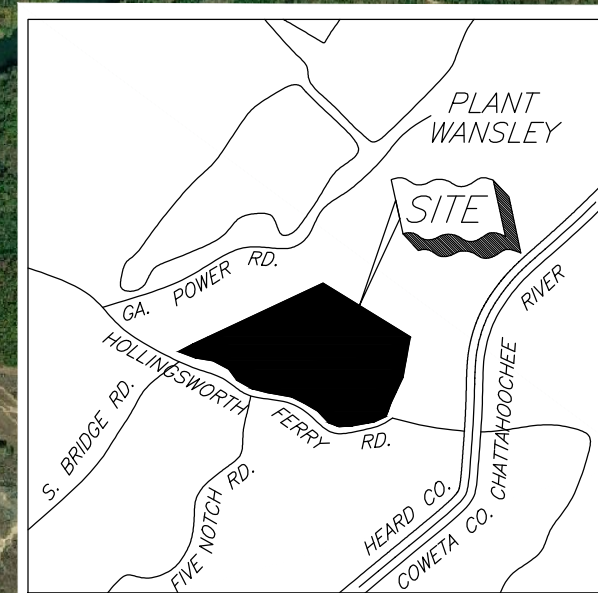
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Drawn by: MM Checked by: EP

PROJECT NUMBER:
I054-110
July 2019

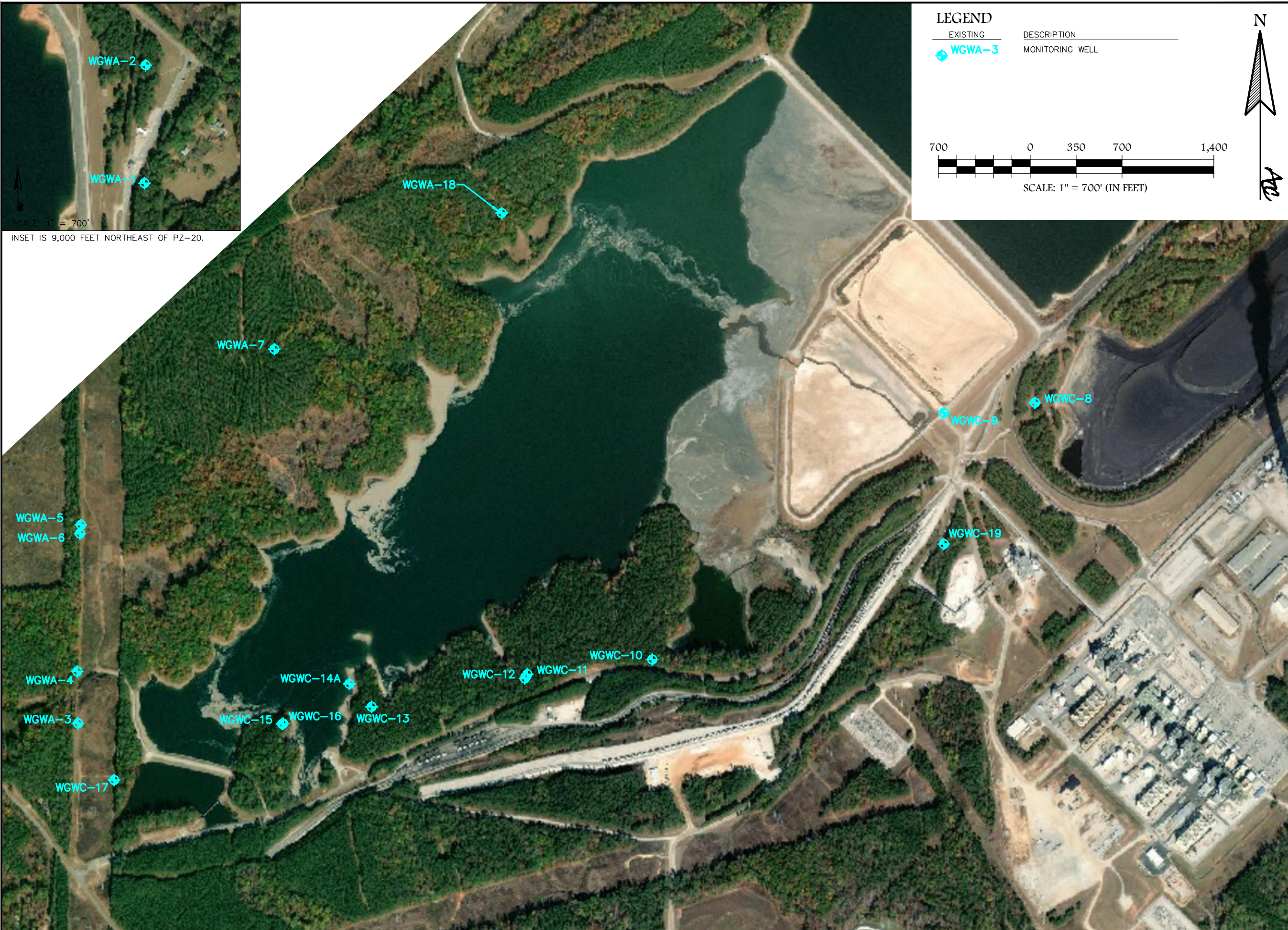
Plant Wansley
Ash Pond
Site Location Map

FIGURE 1



LOCATION MAP

P:\Industrial\054 - Southern Company\110 - Groundwater Consulting Services 2018 - 2021\Plant Wansley\2 - Semi-Annual GWMFs\2nd 2019 AP SA\DWG\Plant Wansley Ash Pond - Site Location Map.dwg 2019-11-20 MATT MALONE



SCALE: 1" = 700'
 INSET IS 9,000 FEET NORTHEAST OF PZ-20.

LEGEND

EXISTING	DESCRIPTION
	MONITORING WELL

700 0 350 700 1,400
 SCALE: 1" = 700' (IN FEET)

N

 ACC

ACC
 ATLANTIC COAST
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 ASH POND

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 CARROLLTON, GEORGIA

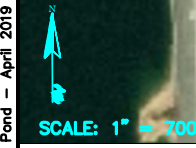
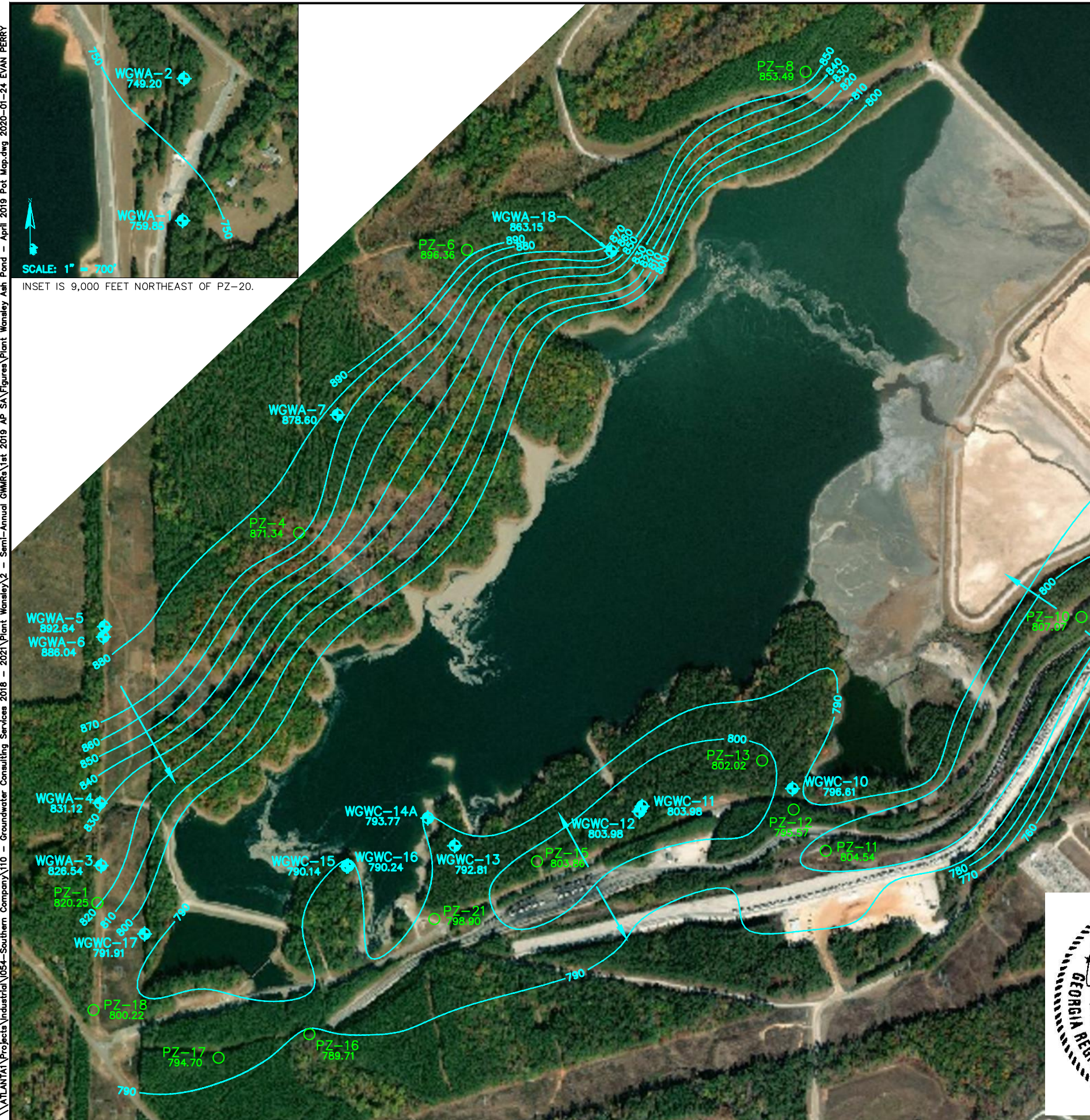
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 July 2019

MONITORING
 WELL NETWORK

\\ATLANTA1\Projects\Industrial\054-Southern Company\110 - Groundwater Consulting Services 2018 - 2021\Plant Wansley\2 - 2021\Plant Wansley\2 - Semi-Annual GMMRS\1st 2019 AP SA\Figures\Plant Wansley Ash Pond - April 2019 Pot Map.dwg 2020-01-24 EVAN PERRY



LEGEND

EXISTING	DESCRIPTION
	MONITORING WELL GROUNDWATER ELEVATION
	PIEZOMETER GROUNDWATER ELEVATION
	GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION

700 0 350 700 1,400

SCALE: 1" = 700' (IN FEET)

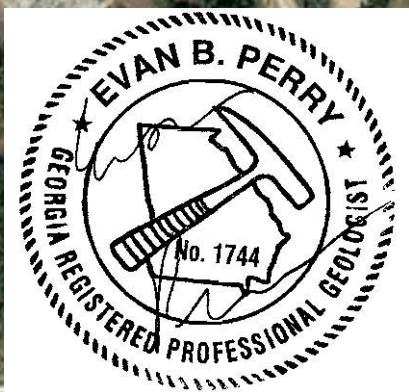
ATLANTIC COAST CONSULTING, INC.
 1150 Northmeadow Pkwy.
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 Roswell, GA 30076
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PROJECT:
PLANT WANSLEY ASH POND

**Summary of Groundwater Elevations
 Plant Wansley Ash Pond
 April 2019**

Monitoring Well ID	Total Depth (ft)	Top of Casing (ft MSL)	Depth to Water (ft BTOC)	Groundwater Elevation (ft MSL)
WGWA-1	129.86	782.86	23.01	759.85
WGWA-2	102.65	758.29	9.09	749.20
WGWA-3	19.00	829.00	2.46	826.54
WGWA-4	73.90	834.30	3.18	831.12
WGWA-5	23.60	902.10	9.46	892.64
WGWA-6	104.50	897.10	11.06	886.04
WGWA-7	39.60	897.40	18.80	878.60
WGWA-18	39.60	878.10	14.95	863.15
WGWC-8	59.63	780.00	3.90	776.10
WGWC-9	61.08	812.08	16.26	795.82
WGWC-10	148.98	812.59	15.98	796.61
WGWC-11	49.50	824.00	20.09	803.91
WGWC-12	76.57	823.12	19.14	803.98
WGWC-13	95.55	810.04	17.23	792.81
WGWC-14A	43.08	811.09	17.32	793.77
WGWC-15	53.36	804.98	14.84	790.14
WGWC-16	34.78	804.49	14.25	790.24
WGWC-17	95.94	816.02	24.11	791.91
WGWC-19	94.84	783.44	17.18	766.26
PZ-1	46.10	856.78	36.53	820.25
PZ-4	17.00	889.09	17.75	871.34
PZ-6	23.00	915.33	18.97	896.36
PZ-8	37.50	882.84	29.35	853.49
PZ-10	30.00	832.16	25.09	807.07
PZ-11	30.00	822.99	18.45	804.54
PZ-12	47.00	818.88	23.31	795.57
PZ-13	56.90	850.04	48.02	802.02
PZ-15	37.00	826.96	23.1	803.86
PZ-16	24.50	800.55	10.84	789.71
PZ-17	48.00	831.21	36.51	794.70
PZ-18	37.00	814.22	13.76	800.46
PZ-20	35.00	787.27	10.24	777.03
PZ-21	30.00	814.71	15.81	798.90
WAMW-1	124.14	782.90	18.02	764.88
WAMW-2	86.14	767.86	11.51	756.35

Notes: Depths to water measured on April 1, 2019.
 ft = feet
 ft MSL = feet mean sea level
 ft BTOC = feet below top of casing



1371 LIBERTY CHURCH ROAD
 CARROLLTON, GEORGIA

REVISIONS

No.	Date	Description

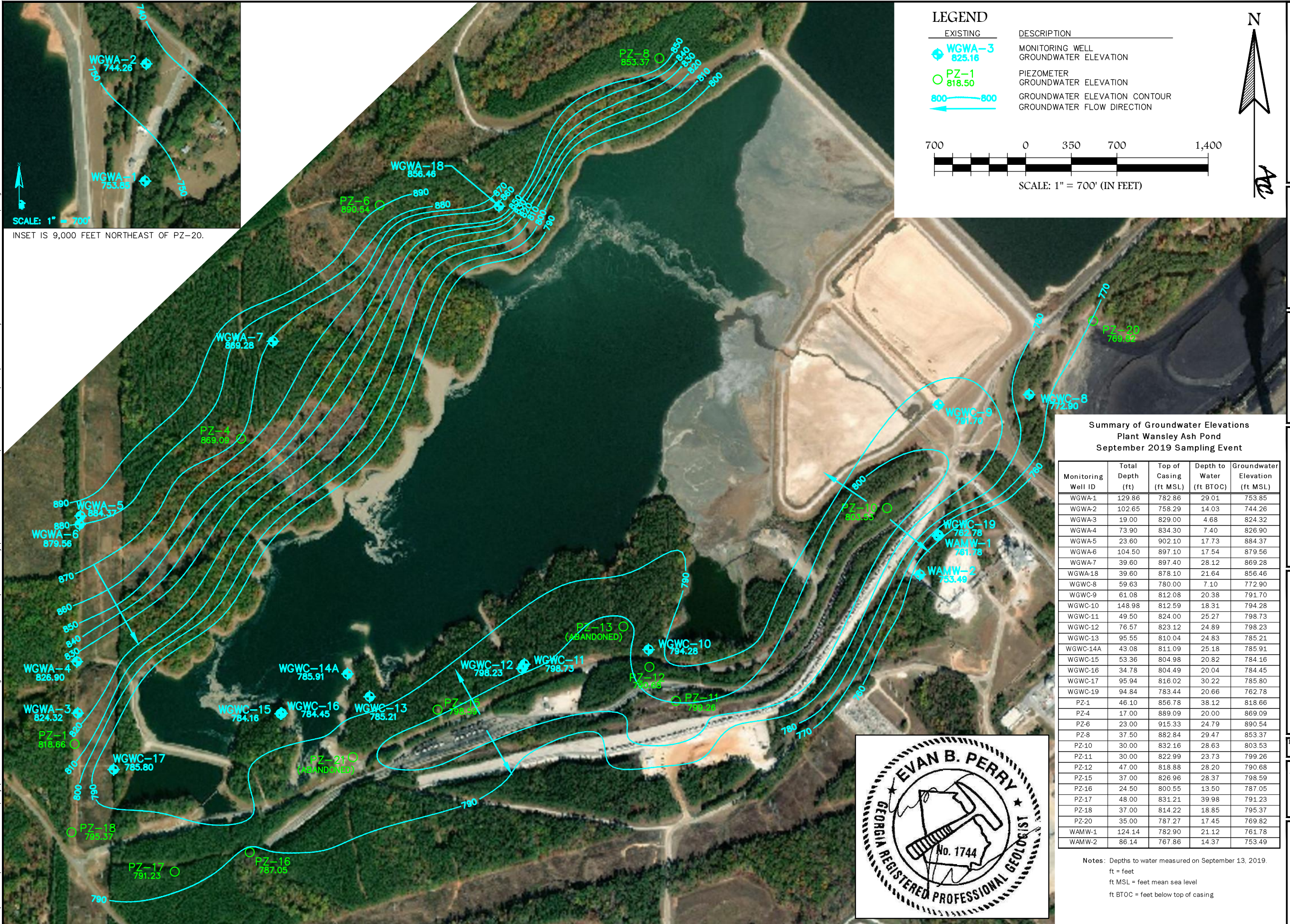
Drawn by: MM Checked by: EP

PROJECT NUMBER:
I054-110
 July 2019

**APRIL 2019
 POTENTIOMETRIC
 SURFACE
 CONTOUR MAP**

FIGURE **3**

P:\Industrial\054-Southern Company\110 - Groundwater Consulting Services 2018 - 2021\Plant Wansley\2 - 2021\Plant Wansley\2 - Semi-Annual GWRs\2nd 2019 AP SA\DWG\Plant Wansley Ash Pond - 2nd 2019 Pot Map.dwg 2020-01-16 EVAN PERRY

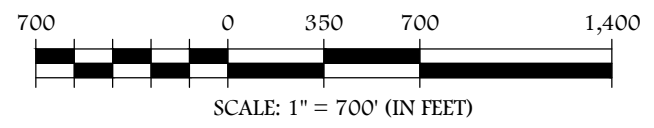


LEGEND

EXISTING	DESCRIPTION
	MONITORING WELL
	PIEZOMETER
	GROUNDWATER ELEVATION CONTOUR
	GROUNDWATER FLOW DIRECTION



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 1150 Northmeadow Pkwy.
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PROJECT:
PLANT WANSLEY ASH POND

**Summary of Groundwater Elevations
 Plant Wansley Ash Pond
 September 2019 Sampling Event**

Monitoring Well ID	Total Depth (ft)	Top of Casing (ft MSL)	Depth to Water (ft BTOC)	Groundwater Elevation (ft MSL)
WGWA-1	129.86	782.86	29.01	753.85
WGWA-2	102.65	758.29	14.03	744.26
WGWA-3	19.00	829.00	4.68	824.32
WGWA-4	73.90	834.30	7.40	826.90
WGWA-5	23.60	902.10	17.73	884.37
WGWA-6	104.50	897.10	17.54	879.56
WGWA-7	39.60	897.40	28.12	869.28
WGWA-18	39.60	878.10	21.64	856.46
WGWC-8	59.63	780.00	7.10	772.90
WGWC-9	61.08	812.08	20.38	791.70
WGWC-10	148.98	812.59	18.31	794.28
WGWC-11	49.50	824.00	25.27	798.73
WGWC-12	76.57	823.12	24.89	798.23
WGWC-13	95.55	810.04	24.83	785.21
WGWC-14A	43.08	811.09	25.18	785.91
WGWC-15	53.36	804.98	20.82	784.16
WGWC-16	34.78	804.49	20.04	784.45
WGWC-17	95.94	816.02	30.22	785.80
WGWC-19	94.84	783.44	20.66	762.78
PZ-1	46.10	856.78	38.12	818.66
PZ-4	17.00	889.09	20.00	869.09
PZ-6	23.00	915.33	24.79	890.54
PZ-8	37.50	882.84	29.47	853.37
PZ-10	30.00	832.16	28.63	803.53
PZ-11	30.00	822.99	23.73	799.26
PZ-12	47.00	818.88	28.20	790.68
PZ-15	37.00	826.96	28.37	798.59
PZ-16	24.50	800.55	13.50	787.05
PZ-17	48.00	831.21	39.98	791.23
PZ-18	37.00	814.22	18.85	795.37
PZ-20	35.00	787.27	17.45	769.82
WAMW-1	124.14	782.90	21.12	761.78
WAMW-2	86.14	767.86	14.37	753.49

REVISIONS

NO.	DATE	DESCRIPTION

Drawn by: **RW** Checked by: **MM**

PROJECT NUMBER:
I054-110
 January 2020

SEPTEMBER 2019 POTENTIOMETRIC SURFACE CONTOUR MAP



Notes: Depths to water measured on September 13, 2019.
 ft = feet
 ft MSL = feet mean sea level
 ft BTOC = feet below top of casing

APPENDICES

APPENDIX A

Laboratory Analytical and Field Sampling Reports

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-87210-1

Client Project/Site: CCR - Plant Wansley

For:

Southern Company

241 Ralph McGill Blvd SE

B10185

Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:

3/19/2019 3:16:55 PM

Veronica Bortot, Senior Project Manager

(412)963-2435

veronica.bortot@testamericainc.com

LINKS

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results through

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www.testamericainc.com

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

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

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	17
QC Sample Results	30
QC Association Summary	35
Chain of Custody	39
Receipt Checklists	50

Case Narrative

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

TestAmerica Job ID: 180-87210-1

Job ID: 180-87210-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative 180-87210-1

Comments

No additional comments.

Receipt

The samples were received on 3/1/2019 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.6° C, 1.9° C, 1.9° C, 2.4° C and 2.6° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. No sample date on COC or containers for samples 11 and 22. Sample date of 2/25/19 used for login purposes.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWA-3 (180-87210-2). The container labels list WGWA-3, while the COC lists WGWA-2. Sample time on containers agreed with COC; sample logged per COC.

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.

Definitions/Glossary

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

TestAmerica Job ID: 180-87210-1

Qualifiers

HPLC/IC

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

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

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

TestAmerica Job ID: 180-87210-1

Laboratory: TestAmerica Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19 *
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19 *
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

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

Sample Summary

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

TestAmerica Job ID: 180-87210-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-87210-1	WGWA-2	Ground Water	02/25/19 15:20	03/01/19 09:10
180-87210-2	WGWA-3	Ground Water	02/26/19 10:35	03/01/19 09:10
180-87210-3	WGWA-4	Ground Water	02/26/19 12:10	03/01/19 09:10
180-87210-4	WGWA-7	Water	02/26/19 14:00	03/01/19 09:10
180-87210-5	WGWA-1	Water	02/25/19 15:05	03/01/19 09:10
180-87210-6	WGWA-5	Water	02/26/19 13:15	03/01/19 09:10
180-87210-7	WGWA-6	Water	02/26/19 14:15	03/01/19 09:10
180-87210-8	WGWA-18	Water	02/26/19 15:15	03/01/19 09:10
180-87210-9	WGWC-17	Water	02/26/19 15:10	03/01/19 09:10
180-87210-10	WGWC-13	Water	02/27/19 11:00	03/01/19 09:10
180-87210-11	DUP-1	Water	02/25/19 00:00	03/01/19 09:10
180-87210-12	FB-1-2-26-19	Water	02/26/19 15:00	03/01/19 09:10
180-87210-13	EB-1-2-27-19	Water	02/27/19 09:50	03/01/19 09:10
180-87210-14	WGWC-14A	Water	02/27/19 11:55	03/01/19 09:10
180-87210-15	WGWC-15	Water	02/27/19 13:30	03/01/19 09:10
180-87210-16	WGWC-16	Water	02/27/19 14:30	03/01/19 09:10
180-87210-17	WGWC-8	Water	02/27/19 10:25	03/01/19 09:10
180-87210-18	WGWC-10	Water	02/27/19 11:25	03/01/19 09:10
180-87210-19	WGWC-11	Water	02/27/19 14:30	03/01/19 09:10
180-87210-20	WGWC-12	Water	02/27/19 17:00	03/01/19 09:10
180-87210-21	WGWC-9	Water	02/28/19 10:50	03/01/19 09:10
180-87210-22	DUP-2	Water	02/25/19 00:00	03/01/19 09:10
180-87210-23	WGWC-19	Water	02/28/19 11:25	03/01/19 09:10
180-87210-24	EB-2-2-28-19	Water	02/28/19 11:30	03/01/19 09:10
180-87210-25	FB-2-2-28-19	Water	02/28/19 10:40	03/01/19 09:10

Method Summary

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

TestAmerica Job ID: 180-87210-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

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



Lab Chronicle

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWA-2

Date Collected: 02/25/19 15:20

Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-1

Matrix: Ground 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			272453	03/11/19 10:06	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	272014	03/05/19 11:45	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272199	03/06/19 13:14	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 15:41	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWA-3

Date Collected: 02/26/19 10:35

Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-2

Matrix: Ground 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			272453	03/11/19 10:22	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	272014	03/05/19 11:45	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272199	03/06/19 13:17	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 15:44	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWA-4

Date Collected: 02/26/19 12:10

Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-3

Matrix: Ground 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			272453	03/11/19 10:38	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	272014	03/05/19 11:45	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272199	03/06/19 13:20	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 15:45	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWA-7

Date Collected: 02/26/19 14:00

Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-4

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			272453	03/11/19 10:53	MJH	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-87210-4

Date Collected: 02/26/19 14:00

Matrix: Water

Date Received: 03/01/19 09:10

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			272453	03/11/19 10:53	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	272014	03/05/19 11:45	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272199	03/06/19 13:24	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 15:46	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWA-1

Lab Sample ID: 180-87210-5

Date Collected: 02/25/19 15:05

Matrix: Water

Date Received: 03/01/19 09:10

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			272453	03/11/19 11:41	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	272014	03/05/19 11:45	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272199	03/06/19 13:27	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 15:47	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWA-5

Lab Sample ID: 180-87210-6

Date Collected: 02/26/19 13:15

Matrix: Water

Date Received: 03/01/19 09:10

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			272453	03/11/19 11:57	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	272014	03/05/19 11:45	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272199	03/06/19 13:37	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 15:48	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWA-6

Lab Sample ID: 180-87210-7

Date Collected: 02/26/19 14:15

Matrix: Water

Date Received: 03/01/19 09:10

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			272453	03/11/19 12:13	MJH	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWA-6

Lab Sample ID: 180-87210-7

Date Collected: 02/26/19 14:15

Matrix: Water

Date Received: 03/01/19 09:10

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			272453	03/11/19 12:13	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	272014	03/05/19 11:45	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272199	03/06/19 13:41	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 15:53	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWA-18

Lab Sample ID: 180-87210-8

Date Collected: 02/26/19 15:15

Matrix: Water

Date Received: 03/01/19 09:10

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			272453	03/11/19 12:28	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	272014	03/05/19 11:45	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272199	03/06/19 13:44	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 15:54	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWC-17

Lab Sample ID: 180-87210-9

Date Collected: 02/26/19 15:10

Matrix: Water

Date Received: 03/01/19 09:10

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			272453	03/11/19 13:16	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	272014	03/05/19 11:45	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272199	03/06/19 13:47	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 15:55	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWC-13

Lab Sample ID: 180-87210-10

Date Collected: 02/27/19 11:00

Matrix: Water

Date Received: 03/01/19 09:10

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			272453	03/11/19 13:32	MJH	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWC-13

Lab Sample ID: 180-87210-10

Date Collected: 02/27/19 11:00

Matrix: Water

Date Received: 03/01/19 09:10

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			272453	03/11/19 13:32	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 11:57	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 15:56	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: DUP-1

Lab Sample ID: 180-87210-11

Date Collected: 02/25/19 00:00

Matrix: Water

Date Received: 03/01/19 09:10

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			272452	03/11/19 14:22	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:00	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 15:57	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: FB-1-2-26-19

Lab Sample ID: 180-87210-12

Date Collected: 02/26/19 15:00

Matrix: Water

Date Received: 03/01/19 09:10

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			272452	03/11/19 14:38	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:04	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 15:58	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: EB-1-2-27-19

Lab Sample ID: 180-87210-13

Date Collected: 02/27/19 09:50

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 07:56	MJH	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: EB-1-2-27-19

Lab Sample ID: 180-87210-13

Date Collected: 02/27/19 09:50

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 07:56	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:07	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 15:59	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWC-14A

Lab Sample ID: 180-87210-14

Date Collected: 02/27/19 11:55

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 08:42	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:10	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 16:00	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWC-15

Lab Sample ID: 180-87210-15

Date Collected: 02/27/19 13:30

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 08:57	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:14	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 16:01	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWC-16

Lab Sample ID: 180-87210-16

Date Collected: 02/27/19 14:30

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 10:29	MJH	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWC-16

Lab Sample ID: 180-87210-16

Date Collected: 02/27/19 14:30

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 10:29	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:17	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 16:02	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWC-8

Lab Sample ID: 180-87210-17

Date Collected: 02/27/19 10:25

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 10:45	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:21	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271954	03/05/19 07:54	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 16:07	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWC-10

Lab Sample ID: 180-87210-18

Date Collected: 02/27/19 11:25

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 09:12	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:31	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271955	03/05/19 07:59	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 14:40	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWC-11

Lab Sample ID: 180-87210-19

Date Collected: 02/27/19 14:30

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 11:00	MJH	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWC-11

Lab Sample ID: 180-87210-19

Date Collected: 02/27/19 14:30

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 11:00	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:34	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271955	03/05/19 07:59	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 14:41	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWC-12

Lab Sample ID: 180-87210-20

Date Collected: 02/27/19 17:00

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 11:16	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:37	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271955	03/05/19 07:59	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 14:42	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWC-9

Lab Sample ID: 180-87210-21

Date Collected: 02/28/19 10:50

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 11:32	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:41	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271955	03/05/19 07:59	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 14:43	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: DUP-2

Lab Sample ID: 180-87210-22

Date Collected: 02/25/19 00:00

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 11:48	MJH	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: DUP-2

Lab Sample ID: 180-87210-22

Date Collected: 02/25/19 00:00

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 11:48	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:44	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271955	03/05/19 07:59	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 14:44	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: WGWC-19

Lab Sample ID: 180-87210-23

Date Collected: 02/28/19 11:25

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 12:04	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:48	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271955	03/05/19 07:59	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 14:48	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: EB-2-2-28-19

Lab Sample ID: 180-87210-24

Date Collected: 02/28/19 11:30

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 08:11	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:51	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271955	03/05/19 07:59	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 14:49	KAK	TAL PIT
Instrument ID: HGY										

Client Sample ID: FB-2-2-28-19

Lab Sample ID: 180-87210-25

Date Collected: 02/28/19 10:40

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 08:26	MJH	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: FB-2-2-28-19

Lab Sample ID: 180-87210-25

Date Collected: 02/28/19 10:40

Matrix: Water

Date Received: 03/01/19 09:10

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			272533	03/12/19 08:26	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	272017	03/05/19 11:50	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			272426	03/08/19 12:54	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			50 mL	50 mL	271955	03/05/19 07:59	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			272176	03/06/19 14:50	KAK	TAL PIT
Instrument ID: HGY										

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

NAM = Nicole Marfisi

RJR = Ron Rosenbaum

Batch Type: Analysis

KAK = Kayla Kalamasz

MJH = Matthew Hartman

RSK = Robert Kurtz

Client Sample Results

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWA-2
Date Collected: 02/25/19 15:20
Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-1
Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	J	0.20	0.026	mg/L			03/11/19 10:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:45	03/06/19 13:14	1
Barium	0.027		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:14	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:45	03/06/19 13:14	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:45	03/06/19 13:14	1
Cobalt	0.00083	J	0.0025	0.000075	mg/L		03/05/19 11:45	03/06/19 13:14	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:14	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:45	03/06/19 13:14	1
Lead	0.00019	J	0.0010	0.00013	mg/L		03/05/19 11:45	03/06/19 13:14	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:45	03/06/19 13:14	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:45	03/06/19 13:14	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:45	03/06/19 13:14	1
Lithium	0.0072		0.0050	0.0031	mg/L		03/05/19 11:45	03/06/19 13:14	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 15:41	1

Client Sample ID: WGWA-3
Date Collected: 02/26/19 10:35
Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-2
Matrix: Ground Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/11/19 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:45	03/06/19 13:17	1
Barium	0.014		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:17	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:45	03/06/19 13:17	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:45	03/06/19 13:17	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		03/05/19 11:45	03/06/19 13:17	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:17	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:45	03/06/19 13:17	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/05/19 11:45	03/06/19 13:17	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:45	03/06/19 13:17	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:45	03/06/19 13:17	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:45	03/06/19 13:17	1
Lithium	<0.0031		0.0050	0.0031	mg/L		03/05/19 11:45	03/06/19 13:17	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 15:44	1

TestAmerica Pittsburgh

Client Sample Results

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWA-4

Lab Sample ID: 180-87210-3

Date Collected: 02/26/19 12:10

Matrix: Ground Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.14	J	0.20	0.026	mg/L			03/11/19 10:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00033	J	0.0013	0.00032	mg/L		03/05/19 11:45	03/06/19 13:20	1
Barium	0.012		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:20	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:45	03/06/19 13:20	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:45	03/06/19 13:20	1
Cobalt	0.00029	J	0.0025	0.000075	mg/L		03/05/19 11:45	03/06/19 13:20	1
Chromium	0.0021	J	0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:20	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:45	03/06/19 13:20	1
Lead	0.00046	J	0.0010	0.00013	mg/L		03/05/19 11:45	03/06/19 13:20	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:45	03/06/19 13:20	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:45	03/06/19 13:20	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:45	03/06/19 13:20	1
Lithium	0.0069		0.0050	0.0031	mg/L		03/05/19 11:45	03/06/19 13:20	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 15:45	1

Client Sample ID: WGWA-7

Lab Sample ID: 180-87210-4

Date Collected: 02/26/19 14:00

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/11/19 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:45	03/06/19 13:24	1
Barium	0.013		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:24	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:45	03/06/19 13:24	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:45	03/06/19 13:24	1
Cobalt	0.00017	J	0.0025	0.000075	mg/L		03/05/19 11:45	03/06/19 13:24	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:24	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:45	03/06/19 13:24	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/05/19 11:45	03/06/19 13:24	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:45	03/06/19 13:24	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:45	03/06/19 13:24	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:45	03/06/19 13:24	1
Lithium	<0.0031		0.0050	0.0031	mg/L		03/05/19 11:45	03/06/19 13:24	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 15:46	1

TestAmerica Pittsburgh

Client Sample Results

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-87210-5

Date Collected: 02/25/19 15:05

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/11/19 11:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:45	03/06/19 13:27	1
Barium	0.049		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:27	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:45	03/06/19 13:27	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:45	03/06/19 13:27	1
Cobalt	0.00085	J	0.0025	0.000075	mg/L		03/05/19 11:45	03/06/19 13:27	1
Chromium	0.0016	J	0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:27	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:45	03/06/19 13:27	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/05/19 11:45	03/06/19 13:27	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:45	03/06/19 13:27	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:45	03/06/19 13:27	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:45	03/06/19 13:27	1
Lithium	0.0049	J	0.0050	0.0031	mg/L		03/05/19 11:45	03/06/19 13:27	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 15:47	1

Client Sample ID: WGWA-5

Lab Sample ID: 180-87210-6

Date Collected: 02/26/19 13:15

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/11/19 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:45	03/06/19 13:37	1
Barium	0.020		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:37	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:45	03/06/19 13:37	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:45	03/06/19 13:37	1
Cobalt	0.00060	J	0.0025	0.000075	mg/L		03/05/19 11:45	03/06/19 13:37	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:37	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:45	03/06/19 13:37	1
Lead	0.00028	J	0.0010	0.00013	mg/L		03/05/19 11:45	03/06/19 13:37	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:45	03/06/19 13:37	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:45	03/06/19 13:37	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:45	03/06/19 13:37	1
Lithium	<0.0031		0.0050	0.0031	mg/L		03/05/19 11:45	03/06/19 13:37	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 15:48	1

TestAmerica Pittsburgh

Client Sample Results

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWA-6

Lab Sample ID: 180-87210-7

Date Collected: 02/26/19 14:15

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.074	J	0.20	0.026	mg/L			03/11/19 12:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:45	03/06/19 13:41	1
Barium	0.011		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:41	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:45	03/06/19 13:41	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:45	03/06/19 13:41	1
Cobalt	0.00031	J	0.0025	0.000075	mg/L		03/05/19 11:45	03/06/19 13:41	1
Chromium	0.0023	J	0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:41	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:45	03/06/19 13:41	1
Lead	0.00037	J	0.0010	0.00013	mg/L		03/05/19 11:45	03/06/19 13:41	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:45	03/06/19 13:41	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:45	03/06/19 13:41	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:45	03/06/19 13:41	1
Lithium	0.0068		0.0050	0.0031	mg/L		03/05/19 11:45	03/06/19 13:41	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 15:53	1

Client Sample ID: WGWA-18

Lab Sample ID: 180-87210-8

Date Collected: 02/26/19 15:15

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.23		0.20	0.026	mg/L			03/11/19 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00054	J	0.0013	0.00032	mg/L		03/05/19 11:45	03/06/19 13:44	1
Barium	0.015		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:44	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:45	03/06/19 13:44	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:45	03/06/19 13:44	1
Cobalt	0.00026	J	0.0025	0.000075	mg/L		03/05/19 11:45	03/06/19 13:44	1
Chromium	0.0016	J	0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:44	1
Molybdenum	0.0019	J	0.0050	0.00061	mg/L		03/05/19 11:45	03/06/19 13:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/05/19 11:45	03/06/19 13:44	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:45	03/06/19 13:44	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:45	03/06/19 13:44	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:45	03/06/19 13:44	1
Lithium	<0.0031		0.0050	0.0031	mg/L		03/05/19 11:45	03/06/19 13:44	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 15:54	1

TestAmerica Pittsburgh

Client Sample Results

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWC-17

Lab Sample ID: 180-87210-9

Date Collected: 02/26/19 15:10

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.068	J	0.20	0.026	mg/L			03/11/19 13:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00050	J	0.0013	0.00032	mg/L		03/05/19 11:45	03/06/19 13:47	1
Barium	0.012		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:47	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:45	03/06/19 13:47	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:45	03/06/19 13:47	1
Cobalt	0.00086	J	0.0025	0.000075	mg/L		03/05/19 11:45	03/06/19 13:47	1
Chromium	<0.00015		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 13:47	1
Molybdenum	0.0032	J	0.0050	0.00061	mg/L		03/05/19 11:45	03/06/19 13:47	1
Lead	0.00033	J	0.0010	0.00013	mg/L		03/05/19 11:45	03/06/19 13:47	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:45	03/06/19 13:47	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:45	03/06/19 13:47	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:45	03/06/19 13:47	1
Lithium	0.0063		0.0050	0.0031	mg/L		03/05/19 11:45	03/06/19 13:47	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 15:55	1

Client Sample ID: WGWC-13

Lab Sample ID: 180-87210-10

Date Collected: 02/27/19 11:00

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.25		0.20	0.026	mg/L			03/11/19 13:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00036	J	0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 11:57	1
Barium	0.054		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 11:57	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 11:57	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 11:57	1
Cobalt	0.00013	J	0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 11:57	1
Chromium	0.0018	J	0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 11:57	1
Molybdenum	0.0019	J	0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 11:57	1
Lead	0.00068	J	0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 11:57	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 11:57	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 11:57	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 11:57	1
Lithium	<0.0031		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 11:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 15:56	1

TestAmerica Pittsburgh

Client Sample Results

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: DUP-1
Date Collected: 02/25/19 00:00
Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-11
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/11/19 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:00	1
Barium	0.014		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:00	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:00	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:00	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:00	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:00	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:00	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:00	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:00	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:00	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:00	1
Lithium	<0.0031		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:00	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 15:57	1

Client Sample ID: FB-1-2-26-19
Date Collected: 02/26/19 15:00
Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-12
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/11/19 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:04	1
Barium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:04	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:04	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:04	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:04	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:04	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:04	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:04	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:04	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:04	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:04	1
Lithium	<0.0031		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:04	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 15:58	1

TestAmerica Pittsburgh

Client Sample Results

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: EB-1-2-27-19

Lab Sample ID: 180-87210-13

Date Collected: 02/27/19 09:50

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/12/19 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:07	1
Barium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:07	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:07	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:07	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:07	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:07	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:07	1
Lead	0.00025	J	0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:07	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:07	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:07	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:07	1
Lithium	<0.0031		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:07	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 15:59	1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-87210-14

Date Collected: 02/27/19 11:55

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/12/19 08:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:10	1
Barium	0.028		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:10	1
Beryllium	0.00017	J	0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:10	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:10	1
Cobalt	0.0049		0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:10	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:10	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:10	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:10	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:10	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:10	1
Thallium	0.00016	J	0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:10	1
Lithium	<0.0031		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:10	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 16:00	1

TestAmerica Pittsburgh

Client Sample Results

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWC-15

Lab Sample ID: 180-87210-15

Date Collected: 02/27/19 13:30

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.81		0.20	0.026	mg/L			03/12/19 08:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0015		0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:14	1
Barium	0.023		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:14	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:14	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:14	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:14	1
Chromium	0.0015	J	0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:14	1
Molybdenum	0.0061		0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:14	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:14	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:14	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:14	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:14	1
Lithium	0.0055		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:14	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 16:01	1

Client Sample ID: WGWC-16

Lab Sample ID: 180-87210-16

Date Collected: 02/27/19 14:30

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.47		0.20	0.026	mg/L			03/12/19 10:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00046	J	0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:17	1
Barium	0.028		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:17	1
Beryllium	0.00022	J	0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:17	1
Cadmium	0.00055	J	0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:17	1
Cobalt	0.00084	J	0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:17	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:17	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:17	1
Lead	0.00014	J	0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:17	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:17	1
Selenium	0.0081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:17	1
Thallium	0.00015	J	0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:17	1
Lithium	0.0075		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:17	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 16:02	1

TestAmerica Pittsburgh

Client Sample Results

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-87210-17

Date Collected: 02/27/19 10:25

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.054	J	0.20	0.026	mg/L			03/12/19 10:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00047	J	0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:21	1
Barium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:21	1
Beryllium	0.0021	J	0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:21	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:21	1
Cobalt	0.0019	J	0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:21	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:21	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:21	1
Lead	0.00017	J	0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:21	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:21	1
Selenium	0.0035		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:21	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:21	1
Lithium	0.014		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:21	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 16:07	1

Client Sample ID: WGWC-10

Lab Sample ID: 180-87210-18

Date Collected: 02/27/19 11:25

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.21		0.20	0.026	mg/L			03/12/19 09:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:31	1
Barium	0.040		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:31	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:31	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:31	1
Cobalt	0.00050	J	0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:31	1
Chromium	0.0031		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:31	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:31	1
Lead	0.00023	J	0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:31	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:31	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:31	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:31	1
Lithium	0.0068		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:31	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:59	03/06/19 14:40	1

TestAmerica Pittsburgh

Client Sample Results

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWC-11

Lab Sample ID: 180-87210-19

Date Collected: 02/27/19 14:30

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.047	J	0.20	0.026	mg/L			03/12/19 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:34	1
Barium	0.040		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:34	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:34	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:34	1
Cobalt	0.0022	J	0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:34	1
Chromium	0.0021	J	0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:34	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:34	1
Lead	0.00058	J	0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:34	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:34	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:34	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:34	1
Lithium	<0.0031		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:34	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:59	03/06/19 14:41	1

Client Sample ID: WGWC-12

Lab Sample ID: 180-87210-20

Date Collected: 02/27/19 17:00

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.060	J	0.20	0.026	mg/L			03/12/19 11:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:37	1
Barium	0.016		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:37	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:37	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:37	1
Cobalt	0.00060	J	0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:37	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:37	1
Molybdenum	0.00063	J	0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:37	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:37	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:37	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:37	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:37	1
Lithium	0.0068		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:37	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:59	03/06/19 14:42	1

TestAmerica Pittsburgh

Client Sample Results

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-87210-21

Date Collected: 02/28/19 10:50

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.4		0.20	0.026	mg/L			03/12/19 11:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:41	1
Barium	0.0023	J	0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:41	1
Beryllium	0.00031	J	0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:41	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:41	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:41	1
Chromium	0.0025		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:41	1
Molybdenum	0.0053		0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:41	1
Lead	0.00014	J	0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:41	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:41	1
Selenium	0.0027		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:41	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:41	1
Lithium	0.037		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:41	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:59	03/06/19 14:43	1

Client Sample ID: DUP-2

Lab Sample ID: 180-87210-22

Date Collected: 02/25/19 00:00

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.27		0.20	0.026	mg/L			03/12/19 11:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:44	1
Barium	0.0015	J	0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:44	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:44	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:44	1
Cobalt	0.00018	J	0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:44	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:44	1
Molybdenum	0.0013	J	0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:44	1
Lead	0.00014	J	0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:44	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:44	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:44	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:44	1
Lithium	0.045		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:44	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:59	03/06/19 14:44	1

TestAmerica Pittsburgh

Client Sample Results

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-87210-23

Date Collected: 02/28/19 11:25

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.28		0.20	0.026	mg/L			03/12/19 12:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:48	1
Barium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:48	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:48	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:48	1
Cobalt	0.00019	J	0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:48	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:48	1
Molybdenum	0.0013	J	0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:48	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:48	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:48	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:48	1
Lithium	0.045		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:48	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:59	03/06/19 14:48	1

Client Sample ID: EB-2-2-28-19

Lab Sample ID: 180-87210-24

Date Collected: 02/28/19 11:30

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/12/19 08:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:51	1
Barium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:51	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:51	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:51	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:51	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:51	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:51	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:51	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:51	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:51	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:51	1
Lithium	<0.0031		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:51	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:59	03/06/19 14:49	1

TestAmerica Pittsburgh

Client Sample Results

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

TestAmerica Job ID: 180-87210-1

Client Sample ID: FB-2-2-28-19

Lab Sample ID: 180-87210-25

Date Collected: 02/28/19 10:40

Matrix: Water

Date Received: 03/01/19 09:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			03/12/19 08:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 12:54	1
Barium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:54	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 12:54	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 12:54	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 12:54	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:54	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 12:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 12:54	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 12:54	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 12:54	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 12:54	1
Lithium	<0.0031		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 12:54	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:59	03/06/19 14:50	1

QC Sample Results

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

TestAmerica Job ID: 180-87210-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-272452/6
Matrix: Water
Analysis Batch: 272452

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		0.20	0.026	mg/L			03/11/19 04:59	1

Lab Sample ID: LCS 180-272452/5
Matrix: Water
Analysis Batch: 272452

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.25	1.26		mg/L		101	90 - 110

Lab Sample ID: MB 180-272453/6
Matrix: Water
Analysis Batch: 272453

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		0.20	0.026	mg/L			03/11/19 05:04	1

Lab Sample ID: LCS 180-272453/5
Matrix: Water
Analysis Batch: 272453

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.25	1.25		mg/L		100	90 - 110

Lab Sample ID: 180-87210-8 MS
Matrix: Water
Analysis Batch: 272453

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.23		1.25	1.51		mg/L		102	80 - 120

Lab Sample ID: 180-87210-8 MSD
Matrix: Water
Analysis Batch: 272453

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.23		1.25	1.50		mg/L		102	80 - 120	0	20

Lab Sample ID: MB 180-272533/6
Matrix: Water
Analysis Batch: 272533

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		0.20	0.026	mg/L			03/12/19 06:06	1

Lab Sample ID: LCS 180-272533/5
Matrix: Water
Analysis Batch: 272533

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.25	1.29		mg/L		103	90 - 110

TestAmerica Pittsburgh

QC Sample Results

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

TestAmerica Job ID: 180-87210-1

Lab Sample ID: 180-87210-18 MS
Matrix: Water
Analysis Batch: 272533

Client Sample ID: WGWC-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.21		1.25	1.41		mg/L		96	80 - 120

Lab Sample ID: 180-87210-18 MSD
Matrix: Water
Analysis Batch: 272533

Client Sample ID: WGWC-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.21		1.25	1.40		mg/L		95	80 - 120	1	20

Method: EPA 6020 - Metals (ICP/MS)

Lab Sample ID: MB 180-272014/1-A
Matrix: Water
Analysis Batch: 272199

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 272014

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:45	03/06/19 11:54	1
Barium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 11:54	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:45	03/06/19 11:54	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:45	03/06/19 11:54	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		03/05/19 11:45	03/06/19 11:54	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:45	03/06/19 11:54	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:45	03/06/19 11:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/05/19 11:45	03/06/19 11:54	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:45	03/06/19 11:54	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:45	03/06/19 11:54	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:45	03/06/19 11:54	1
Lithium	<0.0031		0.0050	0.0031	mg/L		03/05/19 11:45	03/06/19 11:54	1

Lab Sample ID: LCS 180-272014/2-A
Matrix: Water
Analysis Batch: 272199

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 272014

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0400	0.0392		mg/L		98	80 - 120
Barium	2.00	2.12		mg/L		106	80 - 120
Beryllium	0.0500	0.0537		mg/L		107	80 - 120
Cadmium	0.0500	0.0540		mg/L		108	80 - 120
Cobalt	0.500	0.496		mg/L		99	80 - 120
Chromium	0.200	0.216		mg/L		108	80 - 120
Molybdenum	1.00	1.11		mg/L		111	80 - 120
Lead	0.0200	0.0211		mg/L		105	80 - 120
Antimony	0.500	0.536		mg/L		107	80 - 120
Selenium	0.0100	0.00963		mg/L		96	80 - 120
Thallium	0.0500	0.0533		mg/L		107	80 - 120
Lithium	0.0500	0.0562		mg/L		112	80 - 120

TestAmerica Pittsburgh

QC Sample Results

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

TestAmerica Job ID: 180-87210-1

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

Lab Sample ID: MB 180-272017/1-A
Matrix: Water
Analysis Batch: 272426

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 272017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0013	0.00032	mg/L		03/05/19 11:50	03/08/19 11:50	1
Barium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 11:50	1
Beryllium	<0.00016		0.0025	0.00016	mg/L		03/05/19 11:50	03/08/19 11:50	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		03/05/19 11:50	03/08/19 11:50	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		03/05/19 11:50	03/08/19 11:50	1
Chromium	<0.0015		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 11:50	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		03/05/19 11:50	03/08/19 11:50	1
Lead	<0.00013		0.0010	0.00013	mg/L		03/05/19 11:50	03/08/19 11:50	1
Antimony	<0.00038		0.0025	0.00038	mg/L		03/05/19 11:50	03/08/19 11:50	1
Selenium	<0.00081		0.0013	0.00081	mg/L		03/05/19 11:50	03/08/19 11:50	1
Thallium	<0.00013		0.00050	0.00013	mg/L		03/05/19 11:50	03/08/19 11:50	1
Lithium	<0.0031		0.0050	0.0031	mg/L		03/05/19 11:50	03/08/19 11:50	1

Lab Sample ID: LCS 180-272017/2-A
Matrix: Water
Analysis Batch: 272426

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 272017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0400	0.0371		mg/L		93	80 - 120
Barium	2.00	1.99		mg/L		100	80 - 120
Beryllium	0.0500	0.0490		mg/L		98	80 - 120
Cadmium	0.0500	0.0530		mg/L		106	80 - 120
Cobalt	0.500	0.470		mg/L		94	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Molybdenum	1.00	1.05		mg/L		105	80 - 120
Lead	0.0200	0.0212		mg/L		106	80 - 120
Antimony	0.500	0.528		mg/L		106	80 - 120
Selenium	0.0100	0.0109		mg/L		109	80 - 120
Thallium	0.0500	0.0519		mg/L		104	80 - 120
Lithium	0.0500	0.0490		mg/L		98	80 - 120

Lab Sample ID: 180-87210-25 MS
Matrix: Water
Analysis Batch: 272426

Client Sample ID: FB-2-2-28-19
Prep Type: Total Recoverable
Prep Batch: 272017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.00032		0.0400	0.0352		mg/L		88	75 - 125
Barium	<0.0015		2.00	1.91		mg/L		95	75 - 125
Beryllium	<0.00016		0.0500	0.0463		mg/L		93	75 - 125
Cadmium	<0.00013		0.0500	0.0504		mg/L		101	75 - 125
Cobalt	<0.000075		0.500	0.444		mg/L		89	75 - 125
Chromium	<0.0015		0.200	0.198		mg/L		99	75 - 125
Molybdenum	<0.00061		1.00	0.994		mg/L		99	75 - 125
Lead	<0.00013		0.0200	0.0196		mg/L		98	75 - 125
Antimony	<0.00038		0.500	0.496		mg/L		99	75 - 125
Selenium	<0.00081		0.0100	0.0105		mg/L		105	75 - 125
Thallium	<0.00013		0.0500	0.0480		mg/L		96	75 - 125
Lithium	<0.0031		0.0500	0.0476		mg/L		95	75 - 125

TestAmerica Pittsburgh

QC Sample Results

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

TestAmerica Job ID: 180-87210-1

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

Lab Sample ID: 180-87210-25 MSD

Matrix: Water

Analysis Batch: 272426

Client Sample ID: FB-2-2-28-19

Prep Type: Total Recoverable

Prep Batch: 272017

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Arsenic	<0.00032		0.0400	0.0382		mg/L		96	75 - 125	8	20	
Barium	<0.0015		2.00	2.03		mg/L		101	75 - 125	6	20	
Beryllium	<0.00016		0.0500	0.0510		mg/L		102	75 - 125	10	20	
Cadmium	<0.00013		0.0500	0.0517		mg/L		103	75 - 125	3	20	
Cobalt	<0.000075		0.500	0.479		mg/L		96	75 - 125	8	20	
Chromium	<0.0015		0.200	0.209		mg/L		105	75 - 125	5	20	
Molybdenum	<0.00061		1.00	1.05		mg/L		105	75 - 125	5	20	
Lead	<0.00013		0.0200	0.0207		mg/L		103	75 - 125	5	20	
Antimony	<0.00038		0.500	0.525		mg/L		105	75 - 125	6	20	
Selenium	<0.00081		0.0100	0.0107		mg/L		107	75 - 125	2	20	
Thallium	<0.00013		0.0500	0.0492		mg/L		98	75 - 125	3	20	
Lithium	<0.0031		0.0500	0.0500		mg/L		100	75 - 125	5	20	

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-271954/1-A

Matrix: Water

Analysis Batch: 272176

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 271954

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:54	03/06/19 15:24	1

Lab Sample ID: LCS 180-271954/2-A

Matrix: Water

Analysis Batch: 272176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 271954

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
Mercury	0.00250	0.00250		mg/L		100	80 - 120	

Lab Sample ID: 180-87210-1 MS

Matrix: Ground Water

Analysis Batch: 272176

Client Sample ID: WGWA-2

Prep Type: Total/NA

Prep Batch: 271954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
Mercury	<0.00010		0.00100	0.000911		mg/L		91	75 - 125	

Lab Sample ID: 180-87210-1 MSD

Matrix: Ground Water

Analysis Batch: 272176

Client Sample ID: WGWA-2

Prep Type: Total/NA

Prep Batch: 271954

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Mercury	<0.00010		0.00100	0.000900		mg/L		90	75 - 125	1	20	

Lab Sample ID: MB 180-271955/1-A

Matrix: Water

Analysis Batch: 272176

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 271955

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00010		0.00020	0.00010	mg/L		03/05/19 07:59	03/06/19 14:20	1

TestAmerica Pittsburgh

QC Sample Results

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

TestAmerica Job ID: 180-87210-1

Lab Sample ID: LCS 180-271955/2-A
Matrix: Water
Analysis Batch: 272176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271955
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00249		mg/L		100	80 - 120

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

QC Association Summary

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

TestAmerica Job ID: 180-87210-1

HPLC/IC

Analysis Batch: 272452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-11	DUP-1	Total/NA	Water	300.0	
180-87210-12	FB-1-2-26-19	Total/NA	Water	300.0	
MB 180-272452/6	Method Blank	Total/NA	Water	300.0	
LCS 180-272452/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 272453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-1	WGWA-2	Total/NA	Ground Water	300.0	
180-87210-2	WGWA-3	Total/NA	Ground Water	300.0	
180-87210-3	WGWA-4	Total/NA	Ground Water	300.0	
180-87210-4	WGWA-7	Total/NA	Water	300.0	
180-87210-5	WGWA-1	Total/NA	Water	300.0	
180-87210-6	WGWA-5	Total/NA	Water	300.0	
180-87210-7	WGWA-6	Total/NA	Water	300.0	
180-87210-8	WGWA-18	Total/NA	Water	300.0	
180-87210-9	WGWC-17	Total/NA	Water	300.0	
180-87210-10	WGWC-13	Total/NA	Water	300.0	
MB 180-272453/6	Method Blank	Total/NA	Water	300.0	
LCS 180-272453/5	Lab Control Sample	Total/NA	Water	300.0	
180-87210-8 MS	WGWA-18	Total/NA	Water	300.0	
180-87210-8 MSD	WGWA-18	Total/NA	Water	300.0	

Analysis Batch: 272533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-13	EB-1-2-27-19	Total/NA	Water	300.0	
180-87210-14	WGWC-14A	Total/NA	Water	300.0	
180-87210-15	WGWC-15	Total/NA	Water	300.0	
180-87210-16	WGWC-16	Total/NA	Water	300.0	
180-87210-17	WGWC-8	Total/NA	Water	300.0	
180-87210-18	WGWC-10	Total/NA	Water	300.0	
180-87210-19	WGWC-11	Total/NA	Water	300.0	
180-87210-20	WGWC-12	Total/NA	Water	300.0	
180-87210-21	WGWC-9	Total/NA	Water	300.0	
180-87210-22	DUP-2	Total/NA	Water	300.0	
180-87210-23	WGWC-19	Total/NA	Water	300.0	
180-87210-24	EB-2-2-28-19	Total/NA	Water	300.0	
180-87210-25	FB-2-2-28-19	Total/NA	Water	300.0	
MB 180-272533/6	Method Blank	Total/NA	Water	300.0	
LCS 180-272533/5	Lab Control Sample	Total/NA	Water	300.0	
180-87210-18 MS	WGWC-10	Total/NA	Water	300.0	
180-87210-18 MSD	WGWC-10	Total/NA	Water	300.0	

Metals

Prep Batch: 271954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-1	WGWA-2	Total/NA	Ground Water	7470A	
180-87210-2	WGWA-3	Total/NA	Ground Water	7470A	
180-87210-3	WGWA-4	Total/NA	Ground Water	7470A	
180-87210-4	WGWA-7	Total/NA	Water	7470A	

TestAmerica Pittsburgh

QC Association Summary

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

TestAmerica Job ID: 180-87210-1

Metals (Continued)

Prep Batch: 271954 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-5	WGWA-1	Total/NA	Water	7470A	
180-87210-6	WGWA-5	Total/NA	Water	7470A	
180-87210-7	WGWA-6	Total/NA	Water	7470A	
180-87210-8	WGWA-18	Total/NA	Water	7470A	
180-87210-9	WGWC-17	Total/NA	Water	7470A	
180-87210-10	WGWC-13	Total/NA	Water	7470A	
180-87210-11	DUP-1	Total/NA	Water	7470A	
180-87210-12	FB-1-2-26-19	Total/NA	Water	7470A	
180-87210-13	EB-1-2-27-19	Total/NA	Water	7470A	
180-87210-14	WGWA-14A	Total/NA	Water	7470A	
180-87210-15	WGWC-15	Total/NA	Water	7470A	
180-87210-16	WGWC-16	Total/NA	Water	7470A	
180-87210-17	WGWC-8	Total/NA	Water	7470A	
MB 180-271954/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-271954/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-87210-1 MS	WGWA-2	Total/NA	Ground Water	7470A	
180-87210-1 MSD	WGWA-2	Total/NA	Ground Water	7470A	

Prep Batch: 271955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-18	WGWC-10	Total/NA	Water	7470A	
180-87210-19	WGWC-11	Total/NA	Water	7470A	
180-87210-20	WGWC-12	Total/NA	Water	7470A	
180-87210-21	WGWC-9	Total/NA	Water	7470A	
180-87210-22	DUP-2	Total/NA	Water	7470A	
180-87210-23	WGWC-19	Total/NA	Water	7470A	
180-87210-24	EB-2-2-28-19	Total/NA	Water	7470A	
180-87210-25	FB-2-2-28-19	Total/NA	Water	7470A	
MB 180-271955/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-271955/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 272014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-1	WGWA-2	Total Recoverable	Ground Water	3005A	
180-87210-2	WGWA-3	Total Recoverable	Ground Water	3005A	
180-87210-3	WGWA-4	Total Recoverable	Ground Water	3005A	
180-87210-4	WGWA-7	Total Recoverable	Water	3005A	
180-87210-5	WGWA-1	Total Recoverable	Water	3005A	
180-87210-6	WGWA-5	Total Recoverable	Water	3005A	
180-87210-7	WGWA-6	Total Recoverable	Water	3005A	
180-87210-8	WGWA-18	Total Recoverable	Water	3005A	
180-87210-9	WGWC-17	Total Recoverable	Water	3005A	
MB 180-272014/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-272014/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 272017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-10	WGWC-13	Total Recoverable	Water	3005A	
180-87210-11	DUP-1	Total Recoverable	Water	3005A	
180-87210-12	FB-1-2-26-19	Total Recoverable	Water	3005A	
180-87210-13	EB-1-2-27-19	Total Recoverable	Water	3005A	

TestAmerica Pittsburgh

QC Association Summary

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

TestAmerica Job ID: 180-87210-1

Metals (Continued)

Prep Batch: 272017 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-14	WGWC-14A	Total Recoverable	Water	3005A	
180-87210-15	WGWC-15	Total Recoverable	Water	3005A	
180-87210-16	WGWC-16	Total Recoverable	Water	3005A	
180-87210-17	WGWC-8	Total Recoverable	Water	3005A	
180-87210-18	WGWC-10	Total Recoverable	Water	3005A	
180-87210-19	WGWC-11	Total Recoverable	Water	3005A	
180-87210-20	WGWC-12	Total Recoverable	Water	3005A	
180-87210-21	WGWC-9	Total Recoverable	Water	3005A	
180-87210-22	DUP-2	Total Recoverable	Water	3005A	
180-87210-23	WGWC-19	Total Recoverable	Water	3005A	
180-87210-24	EB-2-2-28-19	Total Recoverable	Water	3005A	
180-87210-25	FB-2-2-28-19	Total Recoverable	Water	3005A	
MB 180-272017/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-272017/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-87210-25 MS	FB-2-2-28-19	Total Recoverable	Water	3005A	
180-87210-25 MSD	FB-2-2-28-19	Total Recoverable	Water	3005A	

Analysis Batch: 272176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-1	WGWA-2	Total/NA	Ground Water	EPA 7470A	271954
180-87210-2	WGWA-3	Total/NA	Ground Water	EPA 7470A	271954
180-87210-3	WGWA-4	Total/NA	Ground Water	EPA 7470A	271954
180-87210-4	WGWA-7	Total/NA	Water	EPA 7470A	271954
180-87210-5	WGWA-1	Total/NA	Water	EPA 7470A	271954
180-87210-6	WGWA-5	Total/NA	Water	EPA 7470A	271954
180-87210-7	WGWA-6	Total/NA	Water	EPA 7470A	271954
180-87210-8	WGWA-18	Total/NA	Water	EPA 7470A	271954
180-87210-9	WGWC-17	Total/NA	Water	EPA 7470A	271954
180-87210-10	WGWC-13	Total/NA	Water	EPA 7470A	271954
180-87210-11	DUP-1	Total/NA	Water	EPA 7470A	271954
180-87210-12	FB-1-2-26-19	Total/NA	Water	EPA 7470A	271954
180-87210-13	EB-1-2-27-19	Total/NA	Water	EPA 7470A	271954
180-87210-14	WGWC-14A	Total/NA	Water	EPA 7470A	271954
180-87210-15	WGWC-15	Total/NA	Water	EPA 7470A	271954
180-87210-16	WGWC-16	Total/NA	Water	EPA 7470A	271954
180-87210-17	WGWC-8	Total/NA	Water	EPA 7470A	271954
180-87210-18	WGWC-10	Total/NA	Water	EPA 7470A	271955
180-87210-19	WGWC-11	Total/NA	Water	EPA 7470A	271955
180-87210-20	WGWC-12	Total/NA	Water	EPA 7470A	271955
180-87210-21	WGWC-9	Total/NA	Water	EPA 7470A	271955
180-87210-22	DUP-2	Total/NA	Water	EPA 7470A	271955
180-87210-23	WGWC-19	Total/NA	Water	EPA 7470A	271955
180-87210-24	EB-2-2-28-19	Total/NA	Water	EPA 7470A	271955
180-87210-25	FB-2-2-28-19	Total/NA	Water	EPA 7470A	271955
MB 180-271954/1-A	Method Blank	Total/NA	Water	EPA 7470A	271954
MB 180-271955/1-A	Method Blank	Total/NA	Water	EPA 7470A	271955
LCS 180-271954/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	271954
LCS 180-271955/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	271955
180-87210-1 MS	WGWA-2	Total/NA	Ground Water	EPA 7470A	271954
180-87210-1 MSD	WGWA-2	Total/NA	Ground Water	EPA 7470A	271954

TestAmerica Pittsburgh

QC Association Summary

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

TestAmerica Job ID: 180-87210-1

Metals (Continued)

Analysis Batch: 272199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-1	WGWA-2	Total Recoverable	Ground Water	EPA 6020	272014
180-87210-2	WGWA-3	Total Recoverable	Ground Water	EPA 6020	272014
180-87210-3	WGWA-4	Total Recoverable	Ground Water	EPA 6020	272014
180-87210-4	WGWA-7	Total Recoverable	Water	EPA 6020	272014
180-87210-5	WGWA-1	Total Recoverable	Water	EPA 6020	272014
180-87210-6	WGWA-5	Total Recoverable	Water	EPA 6020	272014
180-87210-7	WGWA-6	Total Recoverable	Water	EPA 6020	272014
180-87210-8	WGWA-18	Total Recoverable	Water	EPA 6020	272014
180-87210-9	WGWC-17	Total Recoverable	Water	EPA 6020	272014
MB 180-272014/1-A	Method Blank	Total Recoverable	Water	EPA 6020	272014
LCS 180-272014/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	272014

Analysis Batch: 272426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-10	WGWC-13	Total Recoverable	Water	EPA 6020	272017
180-87210-11	DUP-1	Total Recoverable	Water	EPA 6020	272017
180-87210-12	FB-1-2-26-19	Total Recoverable	Water	EPA 6020	272017
180-87210-13	EB-1-2-27-19	Total Recoverable	Water	EPA 6020	272017
180-87210-14	WGWC-14A	Total Recoverable	Water	EPA 6020	272017
180-87210-15	WGWC-15	Total Recoverable	Water	EPA 6020	272017
180-87210-16	WGWC-16	Total Recoverable	Water	EPA 6020	272017
180-87210-17	WGWC-8	Total Recoverable	Water	EPA 6020	272017
180-87210-18	WGWC-10	Total Recoverable	Water	EPA 6020	272017
180-87210-19	WGWC-11	Total Recoverable	Water	EPA 6020	272017
180-87210-20	WGWC-12	Total Recoverable	Water	EPA 6020	272017
180-87210-21	WGWC-9	Total Recoverable	Water	EPA 6020	272017
180-87210-22	DUP-2	Total Recoverable	Water	EPA 6020	272017
180-87210-23	WGWC-19	Total Recoverable	Water	EPA 6020	272017
180-87210-24	EB-2-2-28-19	Total Recoverable	Water	EPA 6020	272017
180-87210-25	FB-2-2-28-19	Total Recoverable	Water	EPA 6020	272017
MB 180-272017/1-A	Method Blank	Total Recoverable	Water	EPA 6020	272017
LCS 180-272017/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	272017
180-87210-25 MS	FB-2-2-28-19	Total Recoverable	Water	EPA 6020	272017
180-87210-25 MSD	FB-2-2-28-19	Total Recoverable	Water	EPA 6020	272017

Chain of Custody Record

681-Atlanta

Carrier Tracking No(s): 180-49924-10499.1
 Lab PM: Bortol, Veronica
 E-Mail: veronica.bortol@testamericainc.com
 Sample: O. FUQUA, J. BERTOLD
 Phone: (770) 594-5998
 Job #: 180-49924-10499.1
 Page: Page 1 of 3

Client Information
 Southern Company Services
 Address: 241 Ralph McGill Blvd NE, Bin 10185
 City: Atlanta
 State, Zip: GA, 30308
 Phone: 404-506-7239
 Email: JABRAHAM@SOUTHERNCO.COM
 Project Name: CCR - Plant Wansley App IV Scan Event
 Site: Georgia

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	PRESERVATION CODE (W=water, S=solid, O=wastefl, BT=Tissue, AS=Air)	Field Filtered Sample (Yes or No)	Performance MS/MSD (Yes or No)			Total Number of Containers	Special Instructions/Note:
						300 ORGM_28D - Fluoride	6020_7470A (App IV metals)	9315_Raz26, 9320_Raz28		
WGWA-2	2-25-19	1520	G	Water	X	N	D	D	3	
WGWA-3	2-26-19	1035	G	Water	X	X	X	X	3	
WGWA-4	2-26-19	1210	G	Water	X	X	X	X	3	
WGWA-7	2-26-19	1400	G	Water	X	X	X	X	3	
WGWA-1	2-25-19	1805	G	Water	X	X	X	X	3	
WGWA-5	2-26-19	1315	G	Water	X	X	X	X	3	
WGWA-6	2-26-19	1415	G	Water	X	X	X	X	3	
WGWA-18	2-26-19	1515	G	Water	X	X	X	X	3	
WGWC-17	2-26-19	1510	G	Water	X	X	X	X	3	
WGWC-13	2-27-19	1100	G	Water	X	X	X	X	3	
DUP-1			G	Water	X	X	X	X	3	



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:

Relinquished by: [Signature] Date: 2/28/19 Company: ACC
 Relinquished by: [Signature] Date: 2/28/19 Company: 77A
 Relinquished by: [Signature] Date: 3/1/19 Company: [Signature]

Custody Seal No.: [Signature] Custody Seal No.: [Signature]

Cooler Temperature(s) °C and Other Remarks:

Client Information Client Contact: Mr. Joju Abraham Company: Southern Company Services Address: 241 Ralph McGill Blvd NE, Bin 10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7239 Email: JABRAHAM@SOUTHERNCO.COM Project Name: CCR - Plant Wansley App IV Scan Event Site: Georgia		Lab PM: Bortot, Veronica E-Mail: veronica.bortot@testamericainc.com Carrier Tracking No(s): Lab No: 180-49924-10499.1 Page: Page 1 of 3 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WG #:		Analysis Requested 300_ORGM_28D - Fluoride 6020_7470A (App IV metals) 9316_Ra226, 9320_Ra228	
Sample Identification FB-1-2-26-19 EB-2 EB-1-2-27-19 WGWC-14A WGWC-15 WGWC-16 WGWC-8 WGWC-10 WGWC-11 WGWC-12 WGWC-9 DUP-Z		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 300_ORGM_28D - Fluoride 6020_7470A (App IV metals) 9316_Ra226, 9320_Ra228	
Sample Date 2-26-19 2-27-19 2-27-19 2-27-19 2-27-19 2-28-19 2-27-19 2-27-19 2-27-19 2-28-19 - -		Sample Time 1500 0950 1155 1330 1430 1025 1125 1430 1700 1050 - -	
Sample Type (C=Comp, G=grab) G G G G G G G G G G G G G		Preservation Code Water Water Water Water Water Water Water Water Water Water Water Water Water Water	
Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)		Total Number of Containers 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
Special Instructions/Note: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SSO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA L - EDA Z - other (specify) Other:		Special Instructions/Note: Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)	
Empty Kit Relinquished by:		Date:	
Relinquished by:		Date/Time: 2/28/19 13:45 Company: ACC	
Relinquished by:		Date/Time: 3/28/19 16:10 Company: TA	
Relinquished by:		Date/Time: 2/28/19 13:45 Company: TA	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	

Chain of Custody Record

Client Information		Lab PM: Bortot, Veronica		COC No: 180-49924-10499.1					
Client Contact: Mr. Jolu Abraham		E-Mail: veronica.bortot@testamericainc.com		Page: Page 1 of 3					
Company: Southern Company Services		Due Date Requested:		Analysis Requested					
Address: 241 Ralph McGill Blvd NE, Bln 10185		TAT Requested (days):		Total Number of Containers: <input checked="" type="checkbox"/> 3					
City: Atlanta		PO #: SCS10382606		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)					
Phone: 404-506-7239		WO #: SCS10382606		Special Instructions/Note:					
Email: JABRAHAM@SOUTHERNCO.COM		Project #: 18019922							
Project Name: CCR - Plant Wansley App IV Scan Event		SSOW#:							
Site: Georgia									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGM_28D - Fluoride	6020_7470A (App IV metals)	9315_Ra226_9320_Ra228
WGWC-19	2-28-19	1125	G	Water	X	X	✓	✓	
EB-2-2-28-19	2-28-19	1130	G	Water	X	X	✓	✓	
FB-2-2-28-19	2-28-19	1040	G	Water	X	X	✓	✓	
				Water					
				Water					
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				Water					
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: [Signature]		2/28/19		1345		Company: ACC		Received by: [Signature]	
Relinquished by: [Signature]		2/28/19		1610		Company: TA		Received by: [Signature]	
Relinquished by: [Signature]						Company: [Signature]		Received by: [Signature]	
Custody Seals Intact		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					
Δ Yes Δ No									



159469-434 RIT2 EXP 10/19

TestAmerica
RT 97
FZ

TESTING

HEADLINE IN ENV

1
15:00

28FEB19
3.65 LB
#1116/CAFE3211

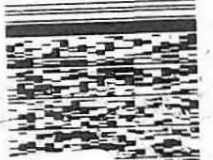
N ID: MULA 16789 968-9991
E TAYLOR ATLANTA
AMERICA ATLANTA
MCDONOUGH-DRIVE
ROSS, GA 30093
UNITED STATES US

BILL RECIPIENT

TO **SAMPLE RECEIVING**
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068



180-87210 Waybill



FRI - 01 MAR 3:00P
STANDARD OVERNIGHT

1 of 5
TRK# 4651 0080 7291
MASTER

NA AGCA 15238
PA-US PIT

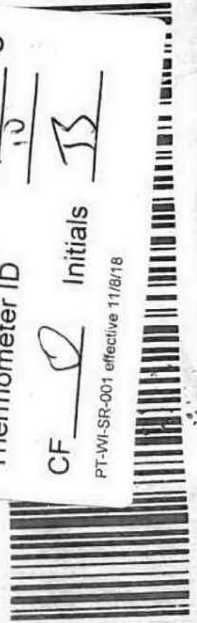
Uncorrected temp
Thermometer ID

1.9 / 10 °C

CF Initials

JS

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



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Custody S

DATE _____ SIGNATURE _____

FedEx
Express

E

FRI - 01 MAR 3:00
STANDARD OVERNIGHT

2 of 5
0080 7306
0080 7291

0201

1523

PA-US

AGCA

Uncorrected temp 26 °C
Thermometer ID 10

CF 0 Initials IB

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
722397

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Body Seal

Part # 159469-434 RIT2 EXP 10/19

THE LEADER IN ENVIRONMENTAL TESTING

RT97
EZ
1
15:00
A
7317
03.01

ORIGIN ID:MULA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 MCDONOUGH DRIVE

SH: 19
ACT: LB
CAD: AFE3211

NORCROSS, GA 30093
UNITED STATES US

BILL RECEIPT

TO **SAMPLE RECEIVING**
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058

REF: SOUTHERN 00



FedEx
Express



3 of 5

MPS# 4651 0080 7317
0263

FRI - 01 MAR 3:00P
STANDARD OVERNIGHT

Mstr# 4651 0080 7291

0201

NA AGCA

15238

PA-US PIT

Uncorrected temp 11.6 °C
Thermometer ID 10

CF 0 Initials J

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



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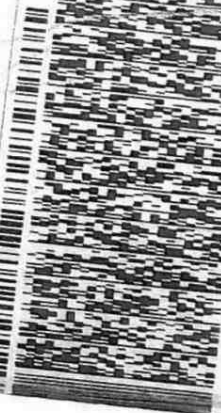
16:00
lestx^{PT97}_{R2}

THE LEADER IN ENVIRONMENTAL

ORIGIN ID: TMLA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

SHIP DATES
ACTING SITE
CRD: 65311

BILL RECEIPT
SAMPLE RECEIVING
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: SOUTHERN CO.



MPS# 4 of 5
4651 0080 7328
Mstr# 4651 0080 7291

FRI -- 01 MAR 3:00
STANDARD OVERNIGHT

0201
NA AGCA

#10 15238
PA-US P

Uncorrected temp
Thermometer ID

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



Please secure this address label to the inside of the container

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Part # 159469-434 RIT2 EXP 10/19

MONITORING FOR ENVIRONMENTAL TESTING

SHIP DATE: 28FEB19
ACTWGT: 55.55 LB
CRD: 859116/CAFE3211

BILL RECIPIENT

AGCA (678) 966-9991
ATLANTA
301 ALPHA DRIVE
RDC PAR

SAMPLE RECEIVING
IN PITTSBURGH
301 ALPHA DRIVE
RDC PAR

PITTSBURGH PA 15238

REF: SCLERN CO.

FedEx Express



5 of 5
MPS# 4651 0030 7339
Mstr# 4651 0080 7291

FRI - 01 MAR 3:00P
STANDARD OVERNIGHT

AA AGCA
FRI - 01 MAR AA
STANDARD OVERNIGHT

15238
PA-US
PIT

15238
PA-US
PIT

AA AGCA

Uncorrected temp 1.9 °C
Thermometer ID 10

CF Initials B

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

FTD 96648 28FEB19 MEA 553C2/0E3D/0C8A

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Chain of Custody Record



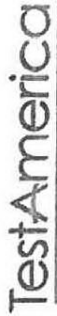
Client Information (Sub Contract Lab)		Sampler: Lab PM: Bortol, Veronica				
Client Contact: Shipping/Receiving		Carrier Tracking No(s):				
Company: TestAmerica Laboratories, Inc.		State of Origin: Georgia				
Address: 13715 Rider Trail North, Earth City, MO, 63045		Page: Page 1 of 3				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Job #: 180-87210-1				
Email:		Accreditations Required (See note):				
Project Name: CCR - Plant Wansley		Analysis Requested				
Site: CCR - Plant Wansley Lanfill		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> 9315_Ra226/PreSep_21 Standard Target List Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 9320_Ra226/PreSep_0 Standard Target List Total Number of Containers: 1				
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab) (BT=Tissue, A=Air)	Matrix (W=water, S=solid, O=wastefl, BT=Tissue, A=Air)	Preservation Code:	Special Instructions/Note:
WGWA-2 (180-87210-1)	2/25/19	15:20 Eastern	Water	Water		
WGWA-3 (180-87210-2)	2/26/19	10:35 Eastern	Water	Water		
WGWA-4 (180-87210-3)	2/26/19	12:10 Eastern	Water	Water		
WGWA-7 (180-87210-4)	2/26/19	14:00 Eastern	Water	Water		
WGWA-1 (180-87210-5)	2/25/19	15:05 Eastern	Water	Water		
WGWA-5 (180-87210-6)	2/26/19	13:15 Eastern	Water	Water		
WGWA-6 (180-87210-7)	2/26/19	14:15 Eastern	Water	Water		
WGWA-18 (180-87210-8)	2/26/19	15:15 Eastern	Water	Water		
WGWC-17 (180-87210-9)	2/26/19	15:10 Eastern	Water	Water		
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.						
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: <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months						
Relinquished by: Date/Time: Company: Received by: Michael Allen Date/Time: 3/15/19 09:15 Company: TA 572						
Relinquished by: Date/Time: Company: Received by: Date/Time: Company: Cooler Temperature(s) °C and Other Remarks:						
Custody Seals Intact: (Custody Seal No.: Δ Yes Δ No)						



TestAmerica Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler:	Lab P/N:	Carrier Tracking No(s):	COC No:
Client Contact:		Phone:	Bortot, Veronica		180-356418.2
Shipping/Receiving			E-Mail:	State of Origin:	Page:
Company:			veronica.bortot@testamericainc.com	Georgia	Page 2 of 3
Address:			Accreditations Required (See note):		
13715 Rider Trail North,			180-87210-1		
City:	Earth City	Due Date Requested:	Analysis Requested		
State, Zip:	MO, 63045	3/13/2019	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)	TAT Requested (days):	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:		PO #:	Preservation Codes:		
Project Name:	CCR - Plant Wansley Lanfill	WO #:	9315_Raz26/PreSep_21 Standard Target List 9320_Raz28/PreSep_0 Standard Target List		
Site:	CCR - Plant Wansley Lanfill	Project #:	Perform MS/MSD (Yes or No)		
		SSOW#:	Field Filtered Sample (Yes or No)		
			Total Number of Containers		
Sample Identification - Client ID (Lab ID)			Special Instructions/Note:		
WGWC-13 (180-87210-10)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastolol, BT=tissue, A=Air)	Preservation Code:
DUP-1 (180-87210-11)	2/27/19	11:00 Eastern		Water	
FB-1-2-26-19 (180-87210-12)	2/25/19	Eastern		Water	
EB-1-2-27-19 (180-87210-13)	2/26/19	15:00 Eastern		Water	
WGWC-14A (180-87210-14)	2/27/19	09:50 Eastern		Water	
WGWC-15 (180-87210-15)	2/27/19	11:55 Eastern		Water	
WGWC-16 (180-87210-16)	2/27/19	13:30 Eastern		Water	
WGWC-8 (180-87210-17)	2/27/19	14:30 Eastern		Water	
WGWC-10 (180-87210-18)	2/27/19	10:25 Eastern		Water	
		11:25 Eastern		Water	
		Eastern		Water	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____
Relinquished by: _____ Date/Time: 3/19/19 17:00
Relinquished by: _____ Date/Time: _____
Relinquished by: _____ Date/Time: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Received by: _____ Date/Time: 3/19/19 09:35
Received by: _____ Date/Time: _____
Received by: _____ Date/Time: _____

Cooler Temperature(s) °C and Other Remarks:

Chain of Custody Record

Client Information (Sub Contract Lab) Client Contact: Bortot, Veronica Shipping/Receiving: veronica.bortot@testamericainc.com Company: TestAmerica Laboratories, Inc. Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Lab PM: Bortot, Veronica E-Mail: veronica.bortot@testamericainc.com Carrier Tracking No(s): State of Origin: Georgia Accreditations Required (See note):	COC No: 180-356418.3 Page: Page 3 of 3 Job #: 180-87210-1
Due Date Requested: 3/13/2019 TAT Requested (days):	PO #: 314-298-8566(Tel) 314-298-8757(Fax) WO #:	Project #: 18019922 SSO#:	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:
Analysis Requested Total Number of Containers:			
Sample Identification - Client ID (Lab ID) WGWC-11 (180-87210-19) WGWC-12 (180-87210-20) WGWC-9 (180-87210-21) DUP-2 (180-87210-22) WGWC-19 (180-87210-23) EB-2-2-28-19 (180-87210-24) FB-2-2-28-19 (180-87210-25)	Sample Date 2/27/19 2/27/19 2/28/19 2/25/19 2/28/19 2/28/19 2/28/19	Sample Time 14:30 Eastern 17:00 Eastern 10:50 Eastern Eastern 11:25 Eastern 11:30 Eastern 10:40 Eastern	Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air) Preservation Code: Water Water Water Water Water Water Water
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
9315 Ra226/PreSep_21 Standard Target List		9320 Ra228/PreSep_0 Standard Target List	
180-87210-02 Chain of Custody			
Special Instructions/Note:			
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.			
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)			
Primary Deliverable Rank: 2			
Empty Kit Relinquished by:			
Relinquished by: [Signature] Date/Time: 3/19/2019 17:00			
Relinquished by: [Signature] Date/Time:			
Relinquished by: Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Cooler Temperature(s) °C and Other Remarks:			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:	
Method of Shipment:			
Received by: [Signature] Date/Time: 3/19/2019 09:25		Company: TA SA	
Received by:		Company:	
Received by:		Company:	
Cooler Temperature(s) °C and Other Remarks:			



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-87210-1

Login Number: 87210

List Number: 1

Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No date or time on COC or containers.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
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: 180-87210-2

Laboratory Sample Delivery Group: App IV Scan
Client Project/Site: CCR - Plant Wansley

For:

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

Attn: Joju Abraham



Authorized for release by:
4/18/2019 4:54:19 PM

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

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results through
TotalAccess

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www.testamericainc.com

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

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

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	5
Certification Summary	6
Sample Summary	8
Method Summary	9
Lab Chronicle	10
Client Sample Results	18
QC Sample Results	33
QC Association Summary	36
Chain of Custody	38
Receipt Checklists	46

Case Narrative

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

Job ID: 180-87210-2
SDG: App IV Scan

Job ID: 180-87210-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-87210-2

Comments

No additional comments.

Receipt

The samples were received on 3/1/2019 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.6° C, 1.9° C, 1.9° C, 2.4° C and 2.6° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. No sample date on COC or containers for samples 11 and 22. Sample date of 2/25/19 used for login purposes.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWA-3 (180-87210-2). The container labels list WGWA-3, while the COC lists WGWA-2. Sample time on containers agreed with COC; sample logged per COC. The client was contacted, and the lab was instructed to <EXPLANATION_REQUIRED>.

RAD

Method(s) 903.0, 9315: Ra-226 Prep Batch 160-417892

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-9 (180-87210-21), DUP-2 (180-87210-22), WGWC-19 (180-87210-23), EB-2-2-28-19 (180-87210-24), FB-2-2-28-19 (180-87210-25), (LCS 160-417892/1-A), (MB 160-417892/23-A), (500-159262-E-1-A) and (500-159262-E-1-B DU)

Method(s) 9315: Ra-226 Prep Batch 160-417889

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

WGWA-2 (180-87210-1), WGWA-3 (180-87210-2), WGWA-4 (180-87210-3), WGWA-7 (180-87210-4), WGWA-1 (180-87210-5), WGWA-5 (180-87210-6), WGWA-6 (180-87210-7), WGWA-18 (180-87210-8), WGWC-17 (180-87210-9), WGWC-13 (180-87210-10), DUP-1 (180-87210-11), FB-1-2-26-19 (180-87210-12), EB-1-2-27-19 (180-87210-13), WGWC-14A (180-87210-14), WGWC-15 (180-87210-15), WGWC-16 (180-87210-16), WGWC-8 (180-87210-17), WGWC-10 (180-87210-18), WGWC-11 (180-87210-19), WGWC-12 (180-87210-20), (LCS 160-417889/1-A), (LCSD 160-417889/2-A) and (MB 160-417889/23-A)

Method(s) 9320: Radium-228 Prep Batch 160-417890

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

WGWA-2 (180-87210-1), WGWA-3 (180-87210-2), WGWA-4 (180-87210-3), WGWA-7 (180-87210-4), WGWA-1 (180-87210-5), WGWA-5 (180-87210-6), WGWA-6 (180-87210-7), WGWA-18 (180-87210-8), WGWC-17 (180-87210-9), WGWC-13 (180-87210-10), DUP-1 (180-87210-11), FB-1-2-26-19 (180-87210-12), EB-1-2-27-19 (180-87210-13), WGWC-14A (180-87210-14), WGWC-15 (180-87210-15), WGWC-16 (180-87210-16), WGWC-8 (180-87210-17), WGWC-10 (180-87210-18), WGWC-11 (180-87210-19), WGWC-12 (180-87210-20), (LCS 160-417890/1-A), (LCSD 160-417890/2-A) and (MB 160-417890/23-A)

Case Narrative

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

Job ID: 180-87210-2
SDG: App IV Scan

Job ID: 180-87210-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Method(s) 904.0, 9320: Ra-228 Prep Batch 160-417898

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-9 (180-87210-21), DUP-2 (180-87210-22), WGWC-19 (180-87210-23), EB-2-2-28-19 (180-87210-24), FB-2-2-28-19 (180-87210-25), (LCS 160-417898/1-A), (MB 160-417898/23-A), (500-159262-E-1-C) and (500-159262-E-1-D DU)

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



Definitions/Glossary

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

Job ID: 180-87210-2
SDG: App IV Scan

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

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

Job ID: 180-87210-2
SDG: App IV Scan

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19 *
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19 *
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

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

Accreditation/Certification Summary

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

Job ID: 180-87210-2
SDG: App IV Scan

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	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-19
ANAB	DoD / DOE		L2305	04-06-22
Arizona	State Program	9	AZ0813	12-08-19
California	State Program	9	2886	06-30-19 *
Connecticut	State Program	1	PH-0241	03-31-21
Florida	NELAP	4	E87689	06-30-19 *
Hawaii	State Program	9	NA	06-30-19
Illinois	NELAP	5	200023	11-30-19
Iowa	State Program	7	373	12-01-20
Kansas	NELAP	7	E-10236	10-31-19
Kentucky (DW)	State Program	4	KY90125	12-31-19
Louisiana	NELAP	6	04080	06-30-19
Louisiana (DW)	NELAP	6	LA011	12-31-19
Maryland	State Program	3	310	09-30-19
Michigan	State Program	5	9005	06-30-19
Missouri	State Program	7	780	06-30-19
Nevada	State Program	9	MO000542018-1	07-31-19
New Jersey	NELAP	2	MO002	06-30-19 *
New York	NELAP	2	11616	03-31-20
North Dakota	State Program	8	R207	06-30-19 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-19
Pennsylvania	NELAP	3	68-00540	02-28-20
South Carolina	State Program	4	85002001	06-30-19
Texas	NELAP	6	T104704193-18-13	07-31-19
US Fish & Wildlife	Federal		058448	07-31-19
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542018-10	07-31-19
Virginia	NELAP	3	460230	06-14-19 *
Washington	State Program	10	C592	08-30-19
West Virginia DEP	State Program	3	381	08-31-19

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

Eurofins TestAmerica, Pittsburgh

Sample Summary

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

Job ID: 180-87210-2
SDG: App IV Scan

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-87210-1	WGWA-2	Ground Water	02/25/19 15:20	03/01/19 09:10
180-87210-2	WGWA-3	Ground Water	02/26/19 10:35	03/01/19 09:10
180-87210-3	WGWA-4	Ground Water	02/26/19 12:10	03/01/19 09:10
180-87210-4	WGWA-7	Water	02/26/19 14:00	03/01/19 09:10
180-87210-5	WGWA-1	Water	02/25/19 15:05	03/01/19 09:10
180-87210-6	WGWA-5	Water	02/26/19 13:15	03/01/19 09:10
180-87210-7	WGWA-6	Water	02/26/19 14:15	03/01/19 09:10
180-87210-8	WGWA-18	Water	02/26/19 15:15	03/01/19 09:10
180-87210-9	WGWC-17	Water	02/26/19 15:10	03/01/19 09:10
180-87210-10	WGWC-13	Water	02/27/19 11:00	03/01/19 09:10
180-87210-11	DUP-1	Water	02/25/19 00:00	03/01/19 09:10
180-87210-12	FB-1-2-26-19	Water	02/26/19 15:00	03/01/19 09:10
180-87210-13	EB-1-2-27-19	Water	02/27/19 09:50	03/01/19 09:10
180-87210-14	WGWC-14A	Water	02/27/19 11:55	03/01/19 09:10
180-87210-15	WGWC-15	Water	02/27/19 13:30	03/01/19 09:10
180-87210-16	WGWC-16	Water	02/27/19 14:30	03/01/19 09:10
180-87210-17	WGWC-8	Water	02/27/19 10:25	03/01/19 09:10
180-87210-18	WGWC-10	Water	02/27/19 11:25	03/01/19 09:10
180-87210-19	WGWC-11	Water	02/27/19 14:30	03/01/19 09:10
180-87210-20	WGWC-12	Water	02/27/19 17:00	03/01/19 09:10
180-87210-21	WGWC-9	Water	02/28/19 10:50	03/01/19 09:10
180-87210-22	DUP-2	Water	02/25/19 00:00	03/01/19 09:10
180-87210-23	WGWC-19	Water	02/28/19 11:25	03/01/19 09:10
180-87210-24	EB-2-2-28-19	Water	02/28/19 11:30	03/01/19 09:10
180-87210-25	FB-2-2-28-19	Water	02/28/19 10:40	03/01/19 09:10

Method Summary

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

Job ID: 180-87210-2
SDG: App IV Scan

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWA-2

Lab Sample ID: 180-87210-1

Date Collected: 02/25/19 15:20

Matrix: Ground Water

Date Received: 03/01/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.18 mL	1.0 g	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421606	03/28/19 07:30	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.18 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420141	03/20/19 15:48	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3

Lab Sample ID: 180-87210-2

Date Collected: 02/26/19 10:35

Matrix: Ground Water

Date Received: 03/01/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.63 mL	1.0 g	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421606	03/28/19 07:30	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.63 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420144	03/20/19 15:52	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-4

Lab Sample ID: 180-87210-3

Date Collected: 02/26/19 12:10

Matrix: Ground Water

Date Received: 03/01/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.58 mL	1.0 g	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 07:32	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.58 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420144	03/20/19 15:52	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Lab Sample ID: 180-87210-4

Date Collected: 02/26/19 14:00

Matrix: Water

Date Received: 03/01/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.17 mL	1.0 g	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 07:32	CDR	TAL SL
Instrument ID: GFPCPURPLE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWA-7

Lab Sample ID: 180-87210-4

Date Collected: 02/26/19 14:00

Matrix: Water

Date Received: 03/01/19 09:10

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			1000.17 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420144	03/20/19 15:52	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-1

Lab Sample ID: 180-87210-5

Date Collected: 02/25/19 15:05

Matrix: Water

Date Received: 03/01/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.85 mL	1.0 g	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 07:32	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.85 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420144	03/20/19 15:52	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 180-87210-6

Date Collected: 02/26/19 13:15

Matrix: Water

Date Received: 03/01/19 09:10

Prep 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	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 07:32	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			999.76 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420144	03/20/19 15:52	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-6

Lab Sample ID: 180-87210-7

Date Collected: 02/26/19 14:15

Matrix: Water

Date Received: 03/01/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.48 mL	1.0 g	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 07:32	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.48 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420144	03/20/19 15:52	CDR	TAL SL
Instrument ID: GFPCPURPLE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWA-6

Lab Sample ID: 180-87210-7

Date Collected: 02/26/19 14:15

Matrix: Water

Date Received: 03/01/19 09:10

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			423877	04/15/19 14:10	BLH	TAL SL

Client Sample ID: WGWA-18

Lab Sample ID: 180-87210-8

Date Collected: 02/26/19 15:15

Matrix: Water

Date Received: 03/01/19 09:10

Prep 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	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 07:33	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.12 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420143	03/20/19 15:57	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-17

Lab Sample ID: 180-87210-9

Date Collected: 02/26/19 15:10

Matrix: Water

Date Received: 03/01/19 09:10

Prep 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	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 07:33	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.62 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420143	03/20/19 15:57	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-13

Lab Sample ID: 180-87210-10

Date Collected: 02/27/19 11:00

Matrix: Water

Date Received: 03/01/19 09:10

Prep 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	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 07:33	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.03 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420143	03/20/19 15:57	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: DUP-1
Date Collected: 02/25/19 00:00
Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.76 mL	1.0 g	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 10:01	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.76 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420143	03/20/19 15:57	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-1-2-26-19
Date Collected: 02/26/19 15:00
Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.52 mL	1.0 g	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 10:01	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.52 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420143	03/20/19 15:58	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1-2-27-19
Date Collected: 02/27/19 09:50
Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.68 mL	1.0 g	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 10:01	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			999.68 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420143	03/20/19 15:58	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-14A
Date Collected: 02/27/19 11:55
Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.31 mL	1.0 g	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 10:02	CDR	TAL SL
Instrument ID: GFPCPURPLE										

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Lab Chronicle

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWC-14A

Lab Sample ID: 180-87210-14

Date Collected: 02/27/19 11:55

Matrix: Water

Date Received: 03/01/19 09:10

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			999.31 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420143	03/20/19 15:58	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Lab Sample ID: 180-87210-15

Date Collected: 02/27/19 13:30

Matrix: Water

Date Received: 03/01/19 09:10

Prep 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	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 10:02	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.75 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420143	03/20/19 15:58	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-16

Lab Sample ID: 180-87210-16

Date Collected: 02/27/19 14:30

Matrix: Water

Date Received: 03/01/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.07 mL	1.0 g	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 10:02	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.07 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420143	03/20/19 15:58	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8

Lab Sample ID: 180-87210-17

Date Collected: 02/27/19 10:25

Matrix: Water

Date Received: 03/01/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.80 mL	1.0 g	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 10:02	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			999.80 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420143	03/20/19 15:58	CDR	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWC-8

Lab Sample ID: 180-87210-17

Date Collected: 02/27/19 10:25

Matrix: Water

Date Received: 03/01/19 09:10

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			423877	04/15/19 14:10	BLH	TAL SL

Client Sample ID: WGWC-10

Lab Sample ID: 180-87210-18

Date Collected: 02/27/19 11:25

Matrix: Water

Date Received: 03/01/19 09:10

Prep 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	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 10:02	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.21 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420143	03/20/19 15:58	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-11

Lab Sample ID: 180-87210-19

Date Collected: 02/27/19 14:30

Matrix: Water

Date Received: 03/01/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.94 mL	1.0 g	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421605	03/28/19 10:02	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			999.94 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420143	03/20/19 15:58	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-12

Lab Sample ID: 180-87210-20

Date Collected: 02/27/19 17:00

Matrix: Water

Date Received: 03/01/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.47 mL	1.0 g	417889	03/06/19 09:16	LTC	TAL SL
Total/NA	Analysis	9315		1			421606	03/28/19 13:09	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.47 mL	1.0 g	417890	03/06/19 09:37	LTC	TAL SL
Total/NA	Analysis	9320		1			420143	03/20/19 15:58	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWC-9

Date Collected: 02/28/19 10:50

Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-21

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			1000.05 mL	1.0 g	417892	03/06/19 09:41	LTC	TAL SL
Total/NA	Analysis	9315		1			421604	03/28/19 07:24	CDR	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Prep	PrecSep_0			1000.05 mL	1.0 g	417898	03/06/19 10:16	LTC	TAL SL
Total/NA	Analysis	9320		1			420716	03/22/19 08:40	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-2

Date Collected: 02/25/19 00:00

Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-22

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			999.97 mL	1.0 g	417892	03/06/19 09:41	LTC	TAL SL
Total/NA	Analysis	9315		1			421604	03/28/19 07:24	CDR	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Prep	PrecSep_0			999.97 mL	1.0 g	417898	03/06/19 10:16	LTC	TAL SL
Total/NA	Analysis	9320		1			420716	03/22/19 08:40	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-19

Date Collected: 02/28/19 11:25

Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-23

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			999.30 mL	1.0 g	417892	03/06/19 09:41	LTC	TAL SL
Total/NA	Analysis	9315		1			421604	03/28/19 07:24	CDR	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Prep	PrecSep_0			999.30 mL	1.0 g	417898	03/06/19 10:16	LTC	TAL SL
Total/NA	Analysis	9320		1			420716	03/22/19 08:40	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-2-2-28-19

Date Collected: 02/28/19 11:30

Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-24

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			1000.42 mL	1.0 g	417892	03/06/19 09:41	LTC	TAL SL
Total/NA	Analysis	9315		1			421604	03/28/19 07:24	CDR	TAL SL
Instrument ID: GFPCORANGE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: EB-2-2-28-19

Lab Sample ID: 180-87210-24

Date Collected: 02/28/19 11:30

Matrix: Water

Date Received: 03/01/19 09:10

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			1000.42 mL	1.0 g	417898	03/06/19 10:16	LTC	TAL SL
Total/NA	Analysis	9320		1			420716	03/22/19 08:40	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-2-2-28-19

Lab Sample ID: 180-87210-25

Date Collected: 02/28/19 10:40

Matrix: Water

Date Received: 03/01/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.65 mL	1.0 g	417892	03/06/19 09:41	LTC	TAL SL
Total/NA	Analysis	9315		1			421604	03/28/19 07:24	CDR	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Prep	PrecSep_0			1000.65 mL	1.0 g	417898	03/06/19 10:16	LTC	TAL SL
Total/NA	Analysis	9320		1			420716	03/22/19 08:41	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			423877	04/15/19 14:10	BLH	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

LTC = Logan Curtright

Batch Type: Analysis

BLH = Brandi Hayes

CDR = Conrad Reuscher

KLS = Kody Saulters

Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWA-2

Lab Sample ID: 180-87210-1

Date Collected: 02/25/19 15:20

Matrix: Ground Water

Date Received: 03/01/19 09:10

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		0.0736	0.0743	1.00	0.0941	pCi/L	03/06/19 09:16	03/28/19 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					03/06/19 09:16	03/28/19 07:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.325	U	0.264	0.266	1.00	0.417	pCi/L	03/06/19 09:37	03/20/19 15:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					03/06/19 09:37	03/20/19 15:48	1
Y Carrier	74.4		40 - 110					03/06/19 09:37	03/20/19 15:48	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	0.440		0.274	0.276	5.00	0.417	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWA-3

Lab Sample ID: 180-87210-2

Date Collected: 02/26/19 10:35

Matrix: Ground Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0385	U	0.0704	0.0705	1.00	0.124	pCi/L	03/06/19 09:16	03/28/19 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/06/19 09:16	03/28/19 07:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.140	U	0.253	0.254	1.00	0.430	pCi/L	03/06/19 09:37	03/20/19 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/06/19 09:37	03/20/19 15:52	1
Y Carrier	74.0		40 - 110					03/06/19 09:37	03/20/19 15:52	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWA-3

Lab Sample ID: 180-87210-2

Date Collected: 02/26/19 10:35

Matrix: Ground Water

Date Received: 03/01/19 09:10

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.179	U	0.263	0.264	5.00	0.430	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWA-4

Lab Sample ID: 180-87210-3

Date Collected: 02/26/19 12:10

Matrix: Ground Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.364		0.105	0.110	1.00	0.0800	pCi/L	03/06/19 09:16	03/28/19 07:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					03/06/19 09:16	03/28/19 07:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.286	U	0.224	0.226	1.00	0.353	pCi/L	03/06/19 09:37	03/20/19 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					03/06/19 09:37	03/20/19 15:52	1
Y Carrier	78.1		40 - 110					03/06/19 09:37	03/20/19 15:52	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	0.650		0.247	0.251	5.00	0.353	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWA-7

Lab Sample ID: 180-87210-4

Date Collected: 02/26/19 14:00

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0205	U	0.0447	0.0447	1.00	0.0828	pCi/L	03/06/19 09:16	03/28/19 07:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					03/06/19 09:16	03/28/19 07:32	1

Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWA-7

Lab Sample ID: 180-87210-4

Date Collected: 02/26/19 14:00

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.374		0.242	0.244	1.00	0.370	pCi/L	03/06/19 09:37	03/20/19 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					03/06/19 09:37	03/20/19 15:52	1
Y Carrier	80.0		40 - 110					03/06/19 09:37	03/20/19 15:52	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	0.395		0.246	0.248	5.00	0.370	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWA-1

Lab Sample ID: 180-87210-5

Date Collected: 02/25/19 15:05

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0796		0.0574	0.0578	1.00	0.0772	pCi/L	03/06/19 09:16	03/28/19 07:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					03/06/19 09:16	03/28/19 07:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.314	U	0.215	0.217	1.00	0.328	pCi/L	03/06/19 09:37	03/20/19 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					03/06/19 09:37	03/20/19 15:52	1
Y Carrier	78.5		40 - 110					03/06/19 09:37	03/20/19 15:52	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	0.394		0.223	0.225	5.00	0.328	pCi/L		04/15/19 14:10	1

Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWA-5

Lab Sample ID: 180-87210-6

Date Collected: 02/26/19 13:15

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0710	U	0.0586	0.0589	1.00	0.0842	pCi/L	03/06/19 09:16	03/28/19 07:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					03/06/19 09:16	03/28/19 07:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0417	U	0.210	0.210	1.00	0.371	pCi/L	03/06/19 09:37	03/20/19 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					03/06/19 09:37	03/20/19 15:52	1
Y Carrier	80.7		40 - 110					03/06/19 09:37	03/20/19 15:52	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	0.113	U	0.218	0.218	5.00	0.371	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWA-6

Lab Sample ID: 180-87210-7

Date Collected: 02/26/19 14:15

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.57		0.312	0.447	1.00	0.0854	pCi/L	03/06/19 09:16	03/28/19 07:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					03/06/19 09:16	03/28/19 07:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.36		0.518	0.716	1.00	0.383	pCi/L	03/06/19 09:37	03/20/19 15:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					03/06/19 09:37	03/20/19 15:52	1
Y Carrier	82.6		40 - 110					03/06/19 09:37	03/20/19 15:52	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWA-6

Lab Sample ID: 180-87210-7

Date Collected: 02/26/19 14:15

Matrix: Water

Date Received: 03/01/19 09:10

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	8.93		0.605	0.844	5.00	0.383	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWA-18

Lab Sample ID: 180-87210-8

Date Collected: 02/26/19 15:15

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0147	U	0.0411	0.0411	1.00	0.0797	pCi/L	03/06/19 09:16	03/28/19 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					03/06/19 09:16	03/28/19 07:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.292	U	0.242	0.244	1.00	0.384	pCi/L	03/06/19 09:37	03/20/19 15:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					03/06/19 09:37	03/20/19 15:57	1
Y Carrier	78.5		40 - 110					03/06/19 09:37	03/20/19 15:57	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	0.307	U	0.245	0.247	5.00	0.384	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWC-17

Lab Sample ID: 180-87210-9

Date Collected: 02/26/19 15:10

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.122		0.0756	0.0764	1.00	0.102	pCi/L	03/06/19 09:16	03/28/19 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					03/06/19 09:16	03/28/19 07:33	1

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Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWC-17

Lab Sample ID: 180-87210-9

Date Collected: 02/26/19 15:10

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.309	U	0.252	0.254	1.00	0.400	pCi/L	03/06/19 09:37	03/20/19 15:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					03/06/19 09:37	03/20/19 15:57	1
Y Carrier	81.5		40 - 110					03/06/19 09:37	03/20/19 15:57	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	0.431		0.263	0.265	5.00	0.400	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWC-13

Lab Sample ID: 180-87210-10

Date Collected: 02/27/19 11:00

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.289		0.0978	0.101	1.00	0.0887	pCi/L	03/06/19 09:16	03/28/19 07:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					03/06/19 09:16	03/28/19 07:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.788		0.284	0.293	1.00	0.382	pCi/L	03/06/19 09:37	03/20/19 15:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					03/06/19 09:37	03/20/19 15:57	1
Y Carrier	80.0		40 - 110					03/06/19 09:37	03/20/19 15:57	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	1.08		0.300	0.310	5.00	0.382	pCi/L		04/15/19 14:10	1

Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: DUP-1
Date Collected: 02/25/19 00:00
Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-11
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.000	U	0.0403	0.0403	1.00	0.0868	pCi/L	03/06/19 09:16	03/28/19 10:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					03/06/19 09:16	03/28/19 10:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0655	U	0.242	0.242	1.00	0.422	pCi/L	03/06/19 09:37	03/20/19 15:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					03/06/19 09:37	03/20/19 15:57	1
Y Carrier	78.5		40 - 110					03/06/19 09:37	03/20/19 15:57	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	0.0655	U	0.245	0.245	5.00	0.422	pCi/L		04/15/19 14:10	1

Client Sample ID: FB-1-2-26-19
Date Collected: 02/26/19 15:00
Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-12
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	0.0356	U	0.0479	0.0480	1.00	0.0802	pCi/L	03/06/19 09:16	03/28/19 10:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					03/06/19 09:16	03/28/19 10:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.156	U	0.223	0.223	1.00	0.374	pCi/L	03/06/19 09:37	03/20/19 15:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					03/06/19 09:37	03/20/19 15:58	1
Y Carrier	80.7		40 - 110					03/06/19 09:37	03/20/19 15:58	1

Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: FB-1-2-26-19

Lab Sample ID: 180-87210-12

Date Collected: 02/26/19 15:00

Matrix: Water

Date Received: 03/01/19 09:10

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.192	U	0.228	0.228	5.00	0.374	pCi/L		04/15/19 14:10	1

Client Sample ID: EB-1-2-27-19

Lab Sample ID: 180-87210-13

Date Collected: 02/27/19 09:50

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0542	U	0.0537	0.0539	1.00	0.0821	pCi/L	03/06/19 09:16	03/28/19 10:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					03/06/19 09:16	03/28/19 10:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.100	U	0.210	0.210	1.00	0.361	pCi/L	03/06/19 09:37	03/20/19 15:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					03/06/19 09:37	03/20/19 15:58	1
Y Carrier	80.4		40 - 110					03/06/19 09:37	03/20/19 15:58	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	0.154	U	0.217	0.217	5.00	0.361	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-87210-14

Date Collected: 02/27/19 11:55

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.312		0.0975	0.101	1.00	0.0787	pCi/L	03/06/19 09:16	03/28/19 10:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					03/06/19 09:16	03/28/19 10:02	1

Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWC-14A

Lab Sample ID: 180-87210-14

Date Collected: 02/27/19 11:55

Matrix: Water

Date Received: 03/01/19 09:10

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	0.230	0.231	1.00	0.374	pCi/L	03/06/19 09:37	03/20/19 15:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					03/06/19 09:37	03/20/19 15:58	1
Y Carrier	80.0		40 - 110					03/06/19 09:37	03/20/19 15:58	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	0.538		0.250	0.252	5.00	0.374	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWC-15

Lab Sample ID: 180-87210-15

Date Collected: 02/27/19 13:30

Matrix: Water

Date Received: 03/01/19 09:10

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		0.0694	0.0702	1.00	0.0851	pCi/L	03/06/19 09:16	03/28/19 10:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/06/19 09:16	03/28/19 10:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.244	U	0.245	0.246	1.00	0.397	pCi/L	03/06/19 09:37	03/20/19 15:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/06/19 09:37	03/20/19 15:58	1
Y Carrier	77.0		40 - 110					03/06/19 09:37	03/20/19 15:58	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	0.363	U	0.255	0.256	5.00	0.397	pCi/L		04/15/19 14:10	1

Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWC-16

Lab Sample ID: 180-87210-16

Date Collected: 02/27/19 14:30

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.220		0.0864	0.0886	1.00	0.0852	pCi/L	03/06/19 09:16	03/28/19 10:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					03/06/19 09:16	03/28/19 10:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.501		0.252	0.256	1.00	0.368	pCi/L	03/06/19 09:37	03/20/19 15:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					03/06/19 09:37	03/20/19 15:58	1
Y Carrier	80.0		40 - 110					03/06/19 09:37	03/20/19 15:58	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	0.721		0.266	0.271	5.00	0.368	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWC-8

Lab Sample ID: 180-87210-17

Date Collected: 02/27/19 10:25

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.587		0.133	0.143	1.00	0.0794	pCi/L	03/06/19 09:16	03/28/19 10:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					03/06/19 09:16	03/28/19 10:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.83		0.362	0.399	1.00	0.386	pCi/L	03/06/19 09:37	03/20/19 15:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					03/06/19 09:37	03/20/19 15:58	1
Y Carrier	80.4		40 - 110					03/06/19 09:37	03/20/19 15:58	1

Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWC-8

Lab Sample ID: 180-87210-17

Date Collected: 02/27/19 10:25

Matrix: Water

Date Received: 03/01/19 09:10

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.42		0.386	0.424	5.00	0.386	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWC-10

Lab Sample ID: 180-87210-18

Date Collected: 02/27/19 11:25

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.155		0.0789	0.0801	1.00	0.0983	pCi/L	03/06/19 09:16	03/28/19 10:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					03/06/19 09:16	03/28/19 10:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0813	U	0.192	0.192	1.00	0.333	pCi/L	03/06/19 09:37	03/20/19 15:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					03/06/19 09:37	03/20/19 15:58	1
Y Carrier	81.5		40 - 110					03/06/19 09:37	03/20/19 15:58	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	0.236	U	0.208	0.208	5.00	0.333	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWC-11

Lab Sample ID: 180-87210-19

Date Collected: 02/27/19 14:30

Matrix: Water

Date Received: 03/01/19 09:10

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	0.0571	0.0574	1.00	0.0859	pCi/L	03/06/19 09:16	03/28/19 10:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					03/06/19 09:16	03/28/19 10:02	1

Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWC-11

Lab Sample ID: 180-87210-19

Date Collected: 02/27/19 14:30

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.312	U	0.226	0.228	1.00	0.352	pCi/L	03/06/19 09:37	03/20/19 15:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					03/06/19 09:37	03/20/19 15:58	1
Y Carrier	81.1		40 - 110					03/06/19 09:37	03/20/19 15:58	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	0.374		0.233	0.235	5.00	0.352	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWC-12

Lab Sample ID: 180-87210-20

Date Collected: 02/27/19 17:00

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.101		0.0624	0.0630	1.00	0.0753	pCi/L	03/06/19 09:16	03/28/19 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					03/06/19 09:16	03/28/19 13:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.314	U	0.208	0.210	1.00	0.316	pCi/L	03/06/19 09:37	03/20/19 15:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					03/06/19 09:37	03/20/19 15:58	1
Y Carrier	81.9		40 - 110					03/06/19 09:37	03/20/19 15:58	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	0.415		0.217	0.219	5.00	0.316	pCi/L		04/15/19 14:10	1

Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: WGWC-9

Lab Sample ID: 180-87210-21

Date Collected: 02/28/19 10:50

Matrix: Water

Date Received: 03/01/19 09:10

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	0.0857	0.0862	1.00	0.118	pCi/L	03/06/19 09:41	03/28/19 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					03/06/19 09:41	03/28/19 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.161	U	0.215	0.215	1.00	0.358	pCi/L	03/06/19 10:16	03/22/19 08:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					03/06/19 10:16	03/22/19 08:40	1
Y Carrier	88.6		40 - 110					03/06/19 10:16	03/22/19 08:40	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	0.271	U	0.231	0.232	5.00	0.358	pCi/L		04/15/19 14:10	1

Client Sample ID: DUP-2

Lab Sample ID: 180-87210-22

Date Collected: 02/25/19 00:00

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0754	U	0.0713	0.0716	1.00	0.109	pCi/L	03/06/19 09:41	03/28/19 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					03/06/19 09:41	03/28/19 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.410		0.225	0.228	1.00	0.333	pCi/L	03/06/19 10:16	03/22/19 08:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					03/06/19 10:16	03/22/19 08:40	1
Y Carrier	82.2		40 - 110					03/06/19 10:16	03/22/19 08:40	1

Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: DUP-2
Date Collected: 02/25/19 00:00
Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-22
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.486		0.236	0.239	5.00	0.333	pCi/L		04/15/19 14:10	1

Client Sample ID: WGWC-19
Date Collected: 02/28/19 11:25
Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-23
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	0.0234	U	0.0547	0.0547	1.00	0.102	pCi/L	03/06/19 09:41	03/28/19 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					03/06/19 09:41	03/28/19 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.231	U	0.216	0.217	1.00	0.347	pCi/L	03/06/19 10:16	03/22/19 08:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					03/06/19 10:16	03/22/19 08:40	1
Y Carrier	88.2		40 - 110					03/06/19 10:16	03/22/19 08:40	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	0.254	U	0.223	0.224	5.00	0.347	pCi/L		04/15/19 14:10	1

Client Sample ID: EB-2-2-28-19
Date Collected: 02/28/19 11:30
Date Received: 03/01/19 09:10

Lab Sample ID: 180-87210-24
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	0.0197	U	0.0684	0.0684	1.00	0.129	pCi/L	03/06/19 09:41	03/28/19 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					03/06/19 09:41	03/28/19 07:24	1

Client Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Client Sample ID: EB-2-2-28-19

Lab Sample ID: 180-87210-24

Date Collected: 02/28/19 11:30

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0164	U	0.187	0.187	1.00	0.341	pCi/L	03/06/19 10:16	03/22/19 08:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					03/06/19 10:16	03/22/19 08:40	1
Y Carrier	88.2		40 - 110					03/06/19 10:16	03/22/19 08:40	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	0.00332	U	0.199	0.199	5.00	0.341	pCi/L		04/15/19 14:10	1

Client Sample ID: FB-2-2-28-19

Lab Sample ID: 180-87210-25

Date Collected: 02/28/19 10:40

Matrix: Water

Date Received: 03/01/19 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0408	U	0.0570	0.0571	1.00	0.0965	pCi/L	03/06/19 09:41	03/28/19 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					03/06/19 09:41	03/28/19 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.151	U	0.215	0.216	1.00	0.361	pCi/L	03/06/19 10:16	03/22/19 08:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					03/06/19 10:16	03/22/19 08:41	1
Y Carrier	81.5		40 - 110					03/06/19 10:16	03/22/19 08:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.192	U	0.222	0.223	5.00	0.361	pCi/L		04/15/19 14:10	1

QC Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-417889/23-A
Matrix: Water
Analysis Batch: 421606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417889

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.02134	U	0.0299	0.0299	1.00	0.0839	pCi/L	03/06/19 09:16	03/28/19 13:09	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					03/06/19 09:16	03/28/19 13:09	1
	108									

Lab Sample ID: LCS 160-417889/1-A
Matrix: Water
Analysis Batch: 421606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417889

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	10.51		1.09	1.00	0.0788	pCi/L	93	68 - 137
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	104								

Lab Sample ID: LCSD 160-417889/2-A
Matrix: Water
Analysis Batch: 421606

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 417889

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.4	10.31		1.08	1.00	0.0783	pCi/L	91	68 - 137	0.09	1
Carrier	LCSD	LCSD	Limits								
Ba Carrier	%Yield	Qualifier	40 - 110								
	104										

Lab Sample ID: MB 160-417892/23-A
Matrix: Water
Analysis Batch: 421605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417892

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.07501	U	0.0650	0.0654	1.00	0.0957	pCi/L	03/06/19 09:41	03/28/19 07:27	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					03/06/19 09:41	03/28/19 07:27	1
	98.2									

Lab Sample ID: LCS 160-417892/1-A
Matrix: Water
Analysis Batch: 421604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417892

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	9.220		0.994	1.00	0.0779	pCi/L	81	68 - 137

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QC Sample Results

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

Job ID: 180-87210-2
SDG: App IV Scan

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

Lab Sample ID: LCS 160-417892/1-A
Matrix: Water
Analysis Batch: 421604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417892

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	104		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-417890/23-A
Matrix: Water
Analysis Batch: 420143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417890

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.004142	U	0.186	0.186	1.00	0.336	pCi/L	03/06/19 09:37	03/20/19 15:58	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110	03/06/19 09:37	03/20/19 15:58	1
Y Carrier	85.2		40 - 110	03/06/19 09:37	03/20/19 15:58	1

Lab Sample ID: LCS 160-417890/1-A
Matrix: Water
Analysis Batch: 420141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417890

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.38	8.829		1.06	1.00	0.408	pCi/L	94	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	104		40 - 110
Y Carrier	74.8		40 - 110

Lab Sample ID: LCSD 160-417890/2-A
Matrix: Water
Analysis Batch: 420141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 417890

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	9.38	8.529		1.04	1.00	0.412	pCi/L	91	56 - 140	0.14	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	104		40 - 110
Y Carrier	71.0		40 - 110

Lab Sample ID: MB 160-417898/23-A
Matrix: Water
Analysis Batch: 420713

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417898

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.03310	U	0.173	0.173	1.00	0.318	pCi/L	03/06/19 10:16	03/22/19 08:43	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-87210-2
 SDG: App IV Scan

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

Lab Sample ID: MB 160-417898/23-A
Matrix: Water
Analysis Batch: 420713

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 417898

Carrier	MB MB		Limits
	%Yield	Qualifier	
Ba Carrier	98.2		40 - 110
Y Carrier	92.3		40 - 110

Prepared	Analyzed	Dil Fac
03/06/19 10:16	03/22/19 08:43	1
03/06/19 10:16	03/22/19 08:43	1

Lab Sample ID: LCS 160-417898/1-A
Matrix: Water
Analysis Batch: 420716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 417898

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.
									Limits
Radium-228	9.37	9.437		1.06	1.00	0.301	pCi/L	101	56 - 140

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	104		40 - 110
Y Carrier	87.1		40 - 110

QC Association Summary

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

Job ID: 180-87210-2
SDG: App IV Scan

Rad

Prep Batch: 417889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-1	WGWA-2	Total/NA	Ground Water	PrecSep-21	
180-87210-2	WGWA-3	Total/NA	Ground Water	PrecSep-21	
180-87210-3	WGWA-4	Total/NA	Ground Water	PrecSep-21	
180-87210-4	WGWA-7	Total/NA	Water	PrecSep-21	
180-87210-5	WGWA-1	Total/NA	Water	PrecSep-21	
180-87210-6	WGWA-5	Total/NA	Water	PrecSep-21	
180-87210-7	WGWA-6	Total/NA	Water	PrecSep-21	
180-87210-8	WGWA-18	Total/NA	Water	PrecSep-21	
180-87210-9	WGWC-17	Total/NA	Water	PrecSep-21	
180-87210-10	WGWC-13	Total/NA	Water	PrecSep-21	
180-87210-11	DUP-1	Total/NA	Water	PrecSep-21	
180-87210-12	FB-1-2-26-19	Total/NA	Water	PrecSep-21	
180-87210-13	EB-1-2-27-19	Total/NA	Water	PrecSep-21	
180-87210-14	WGWC-14A	Total/NA	Water	PrecSep-21	
180-87210-15	WGWC-15	Total/NA	Water	PrecSep-21	
180-87210-16	WGWC-16	Total/NA	Water	PrecSep-21	
180-87210-17	WGWC-8	Total/NA	Water	PrecSep-21	
180-87210-18	WGWC-10	Total/NA	Water	PrecSep-21	
180-87210-19	WGWC-11	Total/NA	Water	PrecSep-21	
180-87210-20	WGWC-12	Total/NA	Water	PrecSep-21	
MB 160-417889/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-417889/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-417889/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 417890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-1	WGWA-2	Total/NA	Ground Water	PrecSep_0	
180-87210-2	WGWA-3	Total/NA	Ground Water	PrecSep_0	
180-87210-3	WGWA-4	Total/NA	Ground Water	PrecSep_0	
180-87210-4	WGWA-7	Total/NA	Water	PrecSep_0	
180-87210-5	WGWA-1	Total/NA	Water	PrecSep_0	
180-87210-6	WGWA-5	Total/NA	Water	PrecSep_0	
180-87210-7	WGWA-6	Total/NA	Water	PrecSep_0	
180-87210-8	WGWA-18	Total/NA	Water	PrecSep_0	
180-87210-9	WGWC-17	Total/NA	Water	PrecSep_0	
180-87210-10	WGWC-13	Total/NA	Water	PrecSep_0	
180-87210-11	DUP-1	Total/NA	Water	PrecSep_0	
180-87210-12	FB-1-2-26-19	Total/NA	Water	PrecSep_0	
180-87210-13	EB-1-2-27-19	Total/NA	Water	PrecSep_0	
180-87210-14	WGWC-14A	Total/NA	Water	PrecSep_0	
180-87210-15	WGWC-15	Total/NA	Water	PrecSep_0	
180-87210-16	WGWC-16	Total/NA	Water	PrecSep_0	
180-87210-17	WGWC-8	Total/NA	Water	PrecSep_0	
180-87210-18	WGWC-10	Total/NA	Water	PrecSep_0	
180-87210-19	WGWC-11	Total/NA	Water	PrecSep_0	
180-87210-20	WGWC-12	Total/NA	Water	PrecSep_0	
MB 160-417890/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-417890/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-417890/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Association Summary

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

Job ID: 180-87210-2
SDG: App IV Scan

Rad

Prep Batch: 417892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-21	WGWC-9	Total/NA	Water	PrecSep-21	
180-87210-22	DUP-2	Total/NA	Water	PrecSep-21	
180-87210-23	WGWC-19	Total/NA	Water	PrecSep-21	
180-87210-24	EB-2-2-28-19	Total/NA	Water	PrecSep-21	
180-87210-25	FB-2-2-28-19	Total/NA	Water	PrecSep-21	
MB 160-417892/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-417892/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 417898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-87210-21	WGWC-9	Total/NA	Water	PrecSep_0	
180-87210-22	DUP-2	Total/NA	Water	PrecSep_0	
180-87210-23	WGWC-19	Total/NA	Water	PrecSep_0	
180-87210-24	EB-2-2-28-19	Total/NA	Water	PrecSep_0	
180-87210-25	FB-2-2-28-19	Total/NA	Water	PrecSep_0	
MB 160-417898/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-417898/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Client Information Client Contact: Mr. Joji Abraham Company: Southern Company Services Address: 241 Ralph McGill Blvd NE, Bin 10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7239 Email: JABRAHAM@SOUTHERNCO.COM Project Name: CCR - Plant Wansley App IV Scan Event Site: Georgia		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Carrier Tracking No(s): 180-49924-10499.1 Page: Page 1 of 3 Job #:	
Due Date Requested: TAT Requested (days): PO.#: SCS10382606 WO.#: Project #: 18019922 SSOW#:		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 300_ORGM_28D - Fluoride, <input checked="" type="checkbox"/> 6020_7470A (App IV metals), <input checked="" type="checkbox"/> 9315_Ra226, 9320_Ra228	
Sample Identification Sample ID: WGWA-2 WGWA-3 WGWA-4 WGWA-7 WGWA-1 WGWA-5 WGWA-6 WGWA-18 WGWC-17 WGWC-13 DUP-1		Sample Date: 2-25-19 2-26-19 2-26-19 2-26-19 2-25-19 2-26-19 2-26-19 2-26-19 2-27-19 --	
Sample Time: 1520 1035 1210 1400 1805 1315 1415 1515 1510 1100 --		Sample Type (C=Comp, G=grab): G G G G G G G G G G G	
Preservation Code: W W W W W W W W W W W W		Total Number of Containers: 3 3 3 3 3 3 3 3 3 3 3 3	
Special Instructions/Note: 180-87210 Chain of Custody		Special Instructions/Note: 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 checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by:		Date:	
Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date: 2/28/19 2/28/19 2/28/19	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	

Client Information Client Contact: Mr. Joju Abraham Company: Southern Company Services Address: 241 Ralph McGill Blvd NE, Bin 10185 City: Atlanta State, Zip: GA, 30308 Phone: 404-506-7239 Email: JABRAHAM@SOUTHERNCO.COM Project Name: CCR - Plant Wansley App IV Scan Event Site: Georgia		Lab PM: Bortot, Veronica E-Mail: veronica.bortot@testamericainc.com Carrier Tracking No(s): COC No: 180-49924-10499.1 Page: Page 1 of 3 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10382606 WG #:		Analysis Requested Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) 300_ORGM_28D - Fluoride, N D D 6020_7470A (App IV metals), N D D 9316_Ra226, 9320_Ra228, N D D	
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air) Preservation Code		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)	
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		Special Instructions/Note: Total Number of containers: 3	
Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by:		Special Instructions/QC Requirements:	
Relinquished by: [Signature] Date/Time: 2/28/19 13:45 Company: ACC Relinquished by: [Signature] Date/Time: 3/28/19 16:10 Company: TA Relinquished by: [Signature] Date/Time: 2/28/19 13:45 Company: TA Relinquished by: [Signature] Date/Time: 3/11/19 09:10 Company: TA		Method of Shipment:	
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: <u>O. FLOQUA, J. BORDISFORD</u> Phone: <u>(770) 594-5998</u>		Lab PM: <u>Bortot, Veronica</u> E-Mail: <u>veronica.bortot@testamericainc.com</u>		COC No: <u>180-49924-10499.1</u> Page: <u>1 of 3</u> Job #:	
Due Date Requested: TAT Requested (days):		Analysis Requested		Total Number of Containers:	
PO #: <u>SCS10382606</u> WO #:		Perform MS/MSD (Yes or No)		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:	
Project #: <u>18019922</u> SSOV#:		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
Address: <u>241 Ralph McGill Blvd NE, Bln 10185</u> City: <u>Atlanta</u> State: <u>GA</u> Zip: <u>30308</u> Phone: <u>404-506-7239</u> Email: <u>JABRAHAM@SOUTHERNCO.COM</u> Project Name: <u>CCR - Plant Wansley App IV Scan Event</u> Site: <u>Georgia</u>		Sample Date Sample Time Sample Type (C=Comp, G=grab) Preservation Code		Matrix (W=water, S=solid, O=wastel/oli, BT=Tissue, A=Air)	
Sample Identification <u>WGWG-19</u> <u>EB-2-2-28-19</u> <u>FB-2-2-28-19</u>		X X X		X X X	
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:	
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>2/28/19 1345</u>		Received by: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>2/28/19 1610</u>		Received by: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>		Date/Time:		Received by:	
Custody Seals Intact Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:		Company	



159469-434 RIT2 EXP 10/19

TestAmerica
HEADQUARTERS
TESTING

HEADQUARTERS
TESTING

1
15:00
7291
03.01

28FEB19
3.65 LB
#1116/CAFE3211

N ID: MULA 16789 968-9991
E TAYLOR ATLANTA
AMERICA ATLANTA
MCDONOUGH-DRIVE

BILL RECIPIENT

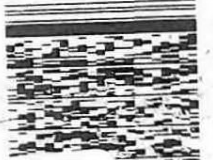
ROSS, GA 30093
UNITED STATES US

TO **SAMPLE RECEIVING**
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068



180-87210 Waybill



FRI - 01 MAR 3:00P
STANDARD OVERNIGHT

1 of 5
TRK# 4651 0080 7291
MASTER

NA AGCA 15238
PA-US PIT

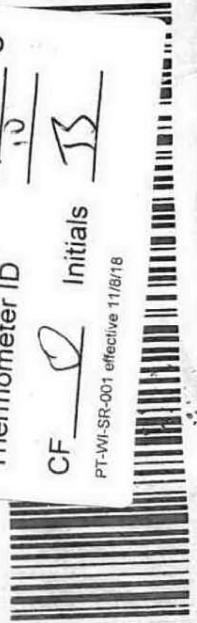
Uncorrected temp
Thermometer ID

1.9 °C

CF Initials

JS

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



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Custody S

DATE _____ SIGNATURE _____

FedEx
Express

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
722397

2 of 5
080 7306
080 7291

0201

AGCA

1523
PA-US

FRI - 01 MAR 3:00
STANDARD OVERNIGHT

Uncorrected temp 26 °C
Thermometer ID 10

CF 0 Initials JB

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Body Seal

Part # 159469-434 RIT2 EXP 10/19

THE LEADER IN ENVIRONMENTAL TESTING

RT97
EZ
1
15:00
A
7317
03.01

ORIGIN ID:MULA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 McDONOUGH DRIVE

SH: 19
ACT: LB
CAD: AFE3211

NORCROSS, GA 30093
UNITED STATES US

BILL RECEIPT

TO **SAMPLE RECEIVING**
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058

REF: SOUTHERN 00



FedEx
Express



3 of 5

MPS# 4651 0080 7317
0263

FRI - 01 MAR 3:00P
STANDARD OVERNIGHT

Mstr# 4651 0080 7291

0201

NA AGCA

15238

PA-US PIT

Uncorrected temp 11.6 °C
Thermometer ID 10

CF 0 Initials J

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



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lestx^{PT97}_{R2}

THE LEADER IN ENVIRONMENTAL

ORIGIN ID: TMLA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

SHIP DATES
ACTING SITE
CRD: 65311

SAMPLE RECEIVING
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: SOUTHERN CO.



MPS# 4651 0080 7328
Q263
Mstr# 4651 0080 7291

NA AGCA

4 of 5
FRI -- 01 MAY 3:00
STANDARD OVERNIGHT

0201

#10 15238

Uncorrected temp
Thermometer ID

CF 0

Initials

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



Please secure this address label to the inside of the container

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- 13

Part # 159469-434 RIT2 EXP 10/19

MONITORING FOR ENVIRONMENTAL TESTING

SHIP DATE: 28FEB19
ACT/MGT: 55 55
CRD: 859116/CAFE3211

BILL RECIPIENT

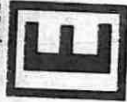
AGCA (678) 966-9991
ATLANTA
301 ALPHA DRIVE
RDC PAR

SAMPLE RECEIVING
IN PITTSBURGH
301 ALPHA DRIVE
RDC PAR

PITTSBURGH PA 15238

REF: SCLERN CO.

FedEx Express



5 of 5
MPS# 4651 0030 7339
Mstr# 4651 0080 7291

FRI - 01 MAR 3:00P
STANDARD OVERNIGHT

0263

AGCA

FRI - 01 MAR AA
STANDARD OVERNIGHT

FedEx

15238
PA-US
PIT

AGCA

Uncorrected temp 1.9 °C
Thermometer ID 10

CF Initials B

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



FTD 96648 28FEB19 MEA 553C2/0E3D/0C8A

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-87210-2
SDG Number: App IV Scan

Login Number: 87210

List Number: 1

Creator: Neri, Tom

List Source: Eurofins TestAmerica, Pittsburgh

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.	False	No date or time on COC or containers.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
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: 180-87210-2
SDG Number: App IV Scan

Login Number: 87210
List Number: 2
Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis
List Creation: 03/05/19 12:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	19.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-87210-2
SDG Number: App IV Scan

Login Number: 87210
List Number: 3
Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis
List Creation: 03/05/19 12:40 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	19.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 180-88630-1

Laboratory Sample Delivery Group: Ash Pond
Client Project/Site: CCR - Plant Wansley

For:

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

Attn: Joju Abraham



Authorized for release by:
4/22/2019 4:10:39 PM

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

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

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

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	16
QC Sample Results	30
QC Association Summary	35
Chain of Custody	39
Receipt Checklists	46

Case Narrative

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

Job ID: 180-88630-1
SDG: Ash Pond

Job ID: 180-88630-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-88630-1

Comments

No additional comments.

Receipt

The samples were received on 4/5/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.2° C, 1.4° C, 1.8° C and 2.4° C.

Anions

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

Metals

Method(s) 200.8, 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-437187 and analytical batch 400-437398 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.

Method(s) , 6020: The post digestion spike % recovery associated with batch 400-437615 was outside of control limits. The following sample is impacted: (180-88630-C-7-A PDS ^5).

Method(s) 6020: The following sample was diluted to bring the concentration of target analytes within the calibration range: WGWC-16 (180-88630-24). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

Definitions/Glossary

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

Job ID: 180-88630-1
SDG: Ash Pond

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
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.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

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

Job ID: 180-88630-1
 SDG: Ash Pond

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19 *
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19 *
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

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

Accreditation/Certification Summary

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

Job ID: 180-88630-1
 SDG: Ash Pond

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19

Sample Summary

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

Job ID: 180-88630-1
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-88630-1	WGWA-1	Water	04/01/19 13:45	04/05/19 09:00
180-88630-2	WGWA-5	Water	04/02/19 11:30	04/05/19 09:00
180-88630-3	WGWA-6	Water	04/02/19 13:15	04/05/19 09:00
180-88630-4	FB-1-4-2-19	Water	04/02/19 12:10	04/05/19 09:00
180-88630-5	WGWA-18	Water	04/02/19 14:25	04/05/19 09:00
180-88630-6	WGWC-9	Water	04/03/19 13:40	04/05/19 09:00
180-88630-7	WGWC-8	Water	04/03/19 14:50	04/05/19 09:00
180-88630-8	WGWC-17	Water	04/04/19 09:55	04/05/19 09:00
180-88630-9	EB-2-4-4-19	Water	04/04/19 09:40	04/05/19 09:00
180-88630-10	WGWC-10	Water	04/04/19 11:35	04/05/19 09:00
180-88630-11	DUP-2-4-3-19	Water	04/04/19 00:00	04/05/19 09:00
180-88630-12	DUP-1	Water	04/04/19 00:00	04/05/19 09:00
180-88630-13	WGWA-2	Water	04/01/19 14:50	04/05/19 09:00
180-88630-14	WGWA-7	Water	04/02/19 11:15	04/05/19 09:00
180-88630-15	WGWA-4	Water	04/02/19 12:45	04/05/19 09:00
180-88630-16	WGWA-3	Water	04/02/19 13:50	04/05/19 09:00
180-88630-17	WGWC-19	Water	04/02/19 14:55	04/05/19 09:00
180-88630-18	WGWC-12	Water	04/03/19 11:05	04/05/19 09:00
180-88630-19	WGWC-11	Water	04/03/19 12:20	04/05/19 09:00
180-88630-20	WGWC-13	Water	04/03/19 13:20	04/05/19 09:00
180-88630-21	WGWC-14A	Water	04/03/19 14:35	04/05/19 09:00
180-88630-23	WGWC-15	Water	04/04/19 10:35	04/05/19 09:00
180-88630-24	WGWC-16	Water	04/04/19 11:40	04/05/19 09:00
180-88630-25	FB-2-4-4-19	Water	04/04/19 12:00	04/05/19 09:00

Method Summary

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

Job ID: 180-88630-1
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
6020	Metals (ICP/MS)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN

Protocol References:

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

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 PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Lab Chronicle

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWA-1

Lab Sample ID: 180-88630-1

Date Collected: 04/01/19 13:45

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 14:42	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437187	04/15/19 16:45	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437398	04/17/19 06:22	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275110	04/08/19 11:54	JAS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 180-88630-2

Date Collected: 04/02/19 11:30

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 15:29	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437187	04/15/19 16:45	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437398	04/17/19 06:26	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275263	04/09/19 13:59	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-6

Lab Sample ID: 180-88630-3

Date Collected: 04/02/19 13:15

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 15:45	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437187	04/15/19 16:45	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437398	04/17/19 06:30	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275263	04/09/19 13:59	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-1-4-2-19

Lab Sample ID: 180-88630-4

Date Collected: 04/02/19 12:10

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 17:52	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437187	04/15/19 16:45	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437398	04/17/19 06:54	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275263	04/09/19 13:59	AVS	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWA-18

Lab Sample ID: 180-88630-5

Date Collected: 04/02/19 14:25

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 16:01	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437187	04/15/19 16:45	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437398	04/17/19 06:58	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275263	04/09/19 13:59	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-9

Lab Sample ID: 180-88630-6

Date Collected: 04/03/19 13:40

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 16:17	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437187	04/15/19 16:45	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437398	04/17/19 07:02	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275424	04/10/19 16:42	TAM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8

Lab Sample ID: 180-88630-7

Date Collected: 04/03/19 14:50

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 16:32	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 15:23	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275424	04/10/19 16:42	TAM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-17

Lab Sample ID: 180-88630-8

Date Collected: 04/04/19 09:55

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 16:48	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 15:43	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275517	04/11/19 11:51	AVS	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: EB-2-4-4-19

Lab Sample ID: 180-88630-9

Date Collected: 04/04/19 09:40

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 18:07	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 15:47	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275517	04/11/19 11:51	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10

Lab Sample ID: 180-88630-10

Date Collected: 04/04/19 11:35

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 17:04	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 15:51	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275517	04/11/19 11:51	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-2-4-3-19

Lab Sample ID: 180-88630-11

Date Collected: 04/04/19 00:00

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 18:23	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 15:56	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275517	04/11/19 11:51	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-1

Lab Sample ID: 180-88630-12

Date Collected: 04/04/19 00:00

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 18:39	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 15:59	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275517	04/11/19 11:51	AVS	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWA-2

Lab Sample ID: 180-88630-13

Date Collected: 04/01/19 14:50

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 18:55	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 16:23	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275110	04/08/19 11:54	JAS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Lab Sample ID: 180-88630-14

Date Collected: 04/02/19 11:15

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 19:11	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 16:27	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275263	04/09/19 13:59	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-4

Lab Sample ID: 180-88630-15

Date Collected: 04/02/19 12:45

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 19:26	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 16:32	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275263	04/09/19 13:59	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3

Lab Sample ID: 180-88630-16

Date Collected: 04/02/19 13:50

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 19:42	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 16:35	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275263	04/09/19 13:59	AVS	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWC-19

Lab Sample ID: 180-88630-17

Date Collected: 04/02/19 14:55

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 19:58	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 16:39	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275263	04/09/19 13:59	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-12

Lab Sample ID: 180-88630-18

Date Collected: 04/03/19 11:05

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275706	04/15/19 20:14	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 16:44	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275424	04/10/19 16:42	TAM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-11

Lab Sample ID: 180-88630-19

Date Collected: 04/03/19 12:20

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275800	04/16/19 06:00	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 16:47	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275424	04/10/19 16:42	TAM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-13

Lab Sample ID: 180-88630-20

Date Collected: 04/03/19 13:20

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275800	04/16/19 07:02	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 16:51	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275424	04/10/19 16:42	TAM	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWC-14A

Lab Sample ID: 180-88630-21

Date Collected: 04/03/19 14:35

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275800	04/16/19 07:17	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 16:56	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275424	04/10/19 16:42	TAM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Lab Sample ID: 180-88630-23

Date Collected: 04/04/19 10:35

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275800	04/16/19 07:32	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 17:00	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275517	04/11/19 11:51	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-16

Lab Sample ID: 180-88630-24

Date Collected: 04/04/19 11:40

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275800	04/16/19 06:46	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		5			275800	04/16/19 07:48	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 17:24	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total Recoverable	Prep	3005A	DL		50 mL	50 mL	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	25			437615	04/18/19 09:20	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275517	04/11/19 11:51	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-2-4-4-19

Lab Sample ID: 180-88630-25

Date Collected: 04/04/19 12:00

Matrix: Water

Date Received: 04/05/19 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	300.0		1			275800	04/16/19 08:33	MJH	TAL PIT
Instrument ID: CHIC2100A										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-88630-1
 SDG: Ash Pond

Client Sample ID: FB-2-4-4-19

Lab Sample ID: 180-88630-25

Date Collected: 04/04/19 12:00

Matrix: Water

Date Received: 04/05/19 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	437361	04/16/19 18:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			437615	04/17/19 17:27	DRE	TAL PEN
		Instrument ID: ICPMS7700								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	275517	04/11/19 11:51	AVS	TAL PIT
		Instrument ID: NOEQUIP								

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Analyst References:

Lab: TAL PEN

Batch Type: Prep

DRE = Daniel Etscheid

Batch Type: Analysis

DRE = Daniel Etscheid

Lab: TAL PIT

Batch Type: Analysis

AVS = Abbey Smith

JAS = Joshua Schmidt

MJH = Matthew Hartman

TAM = Tessa Mastalski

Client Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWA-1

Lab Sample ID: 180-88630-1

Date Collected: 04/01/19 13:45

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.0		1.0	0.71	mg/L			04/15/19 14:42	1
Fluoride	<0.026		0.20	0.026	mg/L			04/15/19 14:42	1
Sulfate	<0.38		1.0	0.38	mg/L			04/15/19 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/15/19 16:45	04/17/19 06:22	5
Barium	0.044		0.0025	0.00049	mg/L		04/15/19 16:45	04/17/19 06:22	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/15/19 16:45	04/17/19 06:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/15/19 16:45	04/17/19 06:22	5
Cobalt	0.00079 J		0.0025	0.00040	mg/L		04/15/19 16:45	04/17/19 06:22	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/15/19 16:45	04/17/19 06:22	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/15/19 16:45	04/17/19 06:22	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/15/19 16:45	04/17/19 06:22	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/15/19 16:45	04/17/19 06:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/15/19 16:45	04/17/19 06:22	5
Lithium	0.0044 J		0.0050	0.0011	mg/L		04/15/19 16:45	04/17/19 06:22	5
Calcium	1.0		0.25	0.13	mg/L		04/15/19 16:45	04/17/19 06:22	5
Boron	<0.021		0.050	0.021	mg/L		04/15/19 16:45	04/17/19 06:22	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/08/19 11:54	1

Client Sample ID: WGWA-5

Lab Sample ID: 180-88630-2

Date Collected: 04/02/19 11:30

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			04/15/19 15:29	1
Fluoride	<0.026		0.20	0.026	mg/L			04/15/19 15:29	1
Sulfate	0.94 J		1.0	0.38	mg/L			04/15/19 15:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/15/19 16:45	04/17/19 06:26	5
Barium	0.016		0.0025	0.00049	mg/L		04/15/19 16:45	04/17/19 06:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/15/19 16:45	04/17/19 06:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/15/19 16:45	04/17/19 06:26	5
Cobalt	0.00046 J		0.0025	0.00040	mg/L		04/15/19 16:45	04/17/19 06:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/15/19 16:45	04/17/19 06:26	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/15/19 16:45	04/17/19 06:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/15/19 16:45	04/17/19 06:26	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/15/19 16:45	04/17/19 06:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/15/19 16:45	04/17/19 06:26	5
Lithium	0.0016 J		0.0050	0.0011	mg/L		04/15/19 16:45	04/17/19 06:26	5
Calcium	1.1		0.25	0.13	mg/L		04/15/19 16:45	04/17/19 06:26	5
Boron	<0.021		0.050	0.021	mg/L		04/15/19 16:45	04/17/19 06:26	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWA-5

Lab Sample ID: 180-88630-2

Date Collected: 04/02/19 11:30

Matrix: Water

Date Received: 04/05/19 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	25		10	10	mg/L			04/09/19 13:59	1

Client Sample ID: WGWA-6

Lab Sample ID: 180-88630-3

Date Collected: 04/02/19 13:15

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			04/15/19 15:45	1
Fluoride	0.090	J	0.20	0.026	mg/L			04/15/19 15:45	1
Sulfate	8.5		1.0	0.38	mg/L			04/15/19 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/15/19 16:45	04/17/19 06:30	5
Barium	0.0069		0.0025	0.00049	mg/L		04/15/19 16:45	04/17/19 06:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/15/19 16:45	04/17/19 06:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/15/19 16:45	04/17/19 06:30	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/15/19 16:45	04/17/19 06:30	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/15/19 16:45	04/17/19 06:30	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/15/19 16:45	04/17/19 06:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/15/19 16:45	04/17/19 06:30	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/15/19 16:45	04/17/19 06:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/15/19 16:45	04/17/19 06:30	5
Lithium	0.0052		0.0050	0.0011	mg/L		04/15/19 16:45	04/17/19 06:30	5
Calcium	25		0.25	0.13	mg/L		04/15/19 16:45	04/17/19 06:30	5
Boron	<0.021		0.050	0.021	mg/L		04/15/19 16:45	04/17/19 06:30	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			04/09/19 13:59	1

Client Sample ID: FB-1-4-2-19

Lab Sample ID: 180-88630-4

Date Collected: 04/02/19 12:10

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/15/19 17:52	1
Fluoride	0.035	J	0.20	0.026	mg/L			04/15/19 17:52	1
Sulfate	<0.38		1.0	0.38	mg/L			04/15/19 17:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/15/19 16:45	04/17/19 06:54	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/15/19 16:45	04/17/19 06:54	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/15/19 16:45	04/17/19 06:54	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/15/19 16:45	04/17/19 06:54	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/15/19 16:45	04/17/19 06:54	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/15/19 16:45	04/17/19 06:54	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/15/19 16:45	04/17/19 06:54	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: FB-1-4-2-19

Lab Sample ID: 180-88630-4

Date Collected: 04/02/19 12:10

Matrix: Water

Date Received: 04/05/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/15/19 16:45	04/17/19 06:54	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/15/19 16:45	04/17/19 06:54	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/15/19 16:45	04/17/19 06:54	5
Lithium	<0.0011		0.0050	0.0011	mg/L		04/15/19 16:45	04/17/19 06:54	5
Calcium	<0.13		0.25	0.13	mg/L		04/15/19 16:45	04/17/19 06:54	5
Boron	<0.021		0.050	0.021	mg/L		04/15/19 16:45	04/17/19 06:54	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/09/19 13:59	1

Client Sample ID: WGWA-18

Lab Sample ID: 180-88630-5

Date Collected: 04/02/19 14:25

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.6		1.0	0.71	mg/L			04/15/19 16:01	1
Fluoride	0.21		0.20	0.026	mg/L			04/15/19 16:01	1
Sulfate	11		1.0	0.38	mg/L			04/15/19 16:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/15/19 16:45	04/17/19 06:58	5
Barium	0.014		0.0025	0.00049	mg/L		04/15/19 16:45	04/17/19 06:58	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/15/19 16:45	04/17/19 06:58	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/15/19 16:45	04/17/19 06:58	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/15/19 16:45	04/17/19 06:58	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/15/19 16:45	04/17/19 06:58	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/15/19 16:45	04/17/19 06:58	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/15/19 16:45	04/17/19 06:58	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/15/19 16:45	04/17/19 06:58	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/15/19 16:45	04/17/19 06:58	5
Lithium	0.0012	J	0.0050	0.0011	mg/L		04/15/19 16:45	04/17/19 06:58	5
Calcium	20		0.25	0.13	mg/L		04/15/19 16:45	04/17/19 06:58	5
Boron	<0.021		0.050	0.021	mg/L		04/15/19 16:45	04/17/19 06:58	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			04/09/19 13:59	1

Client Sample ID: WGWC-9

Lab Sample ID: 180-88630-6

Date Collected: 04/03/19 13:40

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.71	mg/L			04/15/19 16:17	1
Fluoride	1.3		0.20	0.026	mg/L			04/15/19 16:17	1
Sulfate	41		1.0	0.38	mg/L			04/15/19 16:17	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWC-9

Lab Sample ID: 180-88630-6

Date Collected: 04/03/19 13:40

Matrix: Water

Date Received: 04/05/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/15/19 16:45	04/17/19 07:02	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/15/19 16:45	04/17/19 07:02	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/15/19 16:45	04/17/19 07:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/15/19 16:45	04/17/19 07:02	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/15/19 16:45	04/17/19 07:02	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/15/19 16:45	04/17/19 07:02	5
Molybdenum	0.0026	J	0.015	0.0020	mg/L		04/15/19 16:45	04/17/19 07:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/15/19 16:45	04/17/19 07:02	5
Selenium	0.0019		0.0013	0.00071	mg/L		04/15/19 16:45	04/17/19 07:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/15/19 16:45	04/17/19 07:02	5
Lithium	0.035		0.0050	0.0011	mg/L		04/15/19 16:45	04/17/19 07:02	5
Calcium	7.2		0.25	0.13	mg/L		04/15/19 16:45	04/17/19 07:02	5
Boron	0.35		0.050	0.021	mg/L		04/15/19 16:45	04/17/19 07:02	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			04/10/19 16:42	1

Client Sample ID: WGWC-8

Lab Sample ID: 180-88630-7

Date Collected: 04/03/19 14:50

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70		1.0	0.71	mg/L			04/15/19 16:32	1
Fluoride	0.50		0.20	0.026	mg/L			04/15/19 16:32	1
Sulfate	180		1.0	0.38	mg/L			04/15/19 16:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 15:23	5
Barium	0.0010	J	0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 15:23	5
Beryllium	0.0019	J	0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 15:23	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 15:23	5
Cobalt	0.0037		0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 15:23	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 15:23	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 15:23	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 15:23	5
Selenium	0.0031		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 15:23	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 15:23	5
Lithium	0.015		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 15:23	5
Calcium	61		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 15:23	5
Boron	1.7		0.050	0.021	mg/L		04/16/19 18:10	04/17/19 15:23	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	430		10	10	mg/L			04/10/19 16:42	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWC-17

Lab Sample ID: 180-88630-8

Date Collected: 04/04/19 09:55

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.71	mg/L			04/15/19 16:48	1
Fluoride	0.087	J	0.20	0.026	mg/L			04/15/19 16:48	1
Sulfate	9.1		1.0	0.38	mg/L			04/15/19 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 15:43	5
Barium	0.011		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 15:43	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 15:43	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 15:43	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 15:43	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 15:43	5
Molybdenum	0.0020	J	0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 15:43	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 15:43	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 15:43	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 15:43	5
Lithium	0.0042	J	0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 15:43	5
Calcium	5.6		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 15:43	5
Boron	0.049	J	0.050	0.021	mg/L		04/16/19 18:10	04/17/19 15:43	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	89		10	10	mg/L			04/11/19 11:51	1

Client Sample ID: EB-2-4-4-19

Lab Sample ID: 180-88630-9

Date Collected: 04/04/19 09:40

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/15/19 18:07	1
Fluoride	<0.026		0.20	0.026	mg/L			04/15/19 18:07	1
Sulfate	<0.38		1.0	0.38	mg/L			04/15/19 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 15:47	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 15:47	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 15:47	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 15:47	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 15:47	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 15:47	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 15:47	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 15:47	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 15:47	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 15:47	5
Lithium	<0.0011		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 15:47	5
Calcium	<0.13		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 15:47	5
Boron	0.025	J	0.050	0.021	mg/L		04/16/19 18:10	04/17/19 15:47	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: EB-2-4-4-19

Lab Sample ID: 180-88630-9

Date Collected: 04/04/19 09:40

Matrix: Water

Date Received: 04/05/19 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/11/19 11:51	1

Client Sample ID: WGWC-10

Lab Sample ID: 180-88630-10

Date Collected: 04/04/19 11:35

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.71	mg/L			04/15/19 17:04	1
Fluoride	0.13	J	0.20	0.026	mg/L			04/15/19 17:04	1
Sulfate	2.2		1.0	0.38	mg/L			04/15/19 17:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 15:51	5
Barium	0.040		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 15:51	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 15:51	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 15:51	5
Cobalt	0.0017	J	0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 15:51	5
Chromium	0.0021	J	0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 15:51	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 15:51	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 15:51	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 15:51	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 15:51	5
Lithium	0.0059		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 15:51	5
Calcium	7.9		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 15:51	5
Boron	0.024	J	0.050	0.021	mg/L		04/16/19 18:10	04/17/19 15:51	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	30		10	10	mg/L			04/11/19 11:51	1

Client Sample ID: DUP-2-4-3-19

Lab Sample ID: 180-88630-11

Date Collected: 04/04/19 00:00

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68		1.0	0.71	mg/L			04/15/19 18:23	1
Fluoride	0.56		0.20	0.026	mg/L			04/15/19 18:23	1
Sulfate	180		1.0	0.38	mg/L			04/15/19 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00046	J	0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 15:56	5
Barium	0.00091	J	0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 15:56	5
Beryllium	0.0017	J	0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 15:56	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 15:56	5
Cobalt	0.0036		0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 15:56	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 15:56	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 15:56	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: DUP-2-4-3-19

Lab Sample ID: 180-88630-11

Date Collected: 04/04/19 00:00

Matrix: Water

Date Received: 04/05/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 15:56	5
Selenium	0.0028		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 15:56	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 15:56	5
Lithium	0.015		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 15:56	5
Calcium	60		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 15:56	5
Boron	1.7		0.050	0.021	mg/L		04/16/19 18:10	04/17/19 15:56	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	430		10	10	mg/L			04/11/19 11:51	1

Client Sample ID: DUP-1

Lab Sample ID: 180-88630-12

Date Collected: 04/04/19 00:00

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.71	mg/L			04/15/19 18:39	1
Fluoride	0.059	J	0.20	0.026	mg/L			04/15/19 18:39	1
Sulfate	0.89	J	1.0	0.38	mg/L			04/15/19 18:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0012	J	0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 15:59	5
Barium	0.038		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 15:59	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 15:59	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 15:59	5
Cobalt	0.0011	J	0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 15:59	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 15:59	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 15:59	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 15:59	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 15:59	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 15:59	5
Lithium	0.0057		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 15:59	5
Calcium	17		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 15:59	5
Boron	0.038	J	0.050	0.021	mg/L		04/16/19 18:10	04/17/19 15:59	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	98		10	10	mg/L			04/11/19 11:51	1

Client Sample ID: WGWA-2

Lab Sample ID: 180-88630-13

Date Collected: 04/01/19 14:50

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.71	mg/L			04/15/19 18:55	1
Fluoride	0.061	J	0.20	0.026	mg/L			04/15/19 18:55	1
Sulfate	1.0		1.0	0.38	mg/L			04/15/19 18:55	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWA-2

Lab Sample ID: 180-88630-13

Date Collected: 04/01/19 14:50

Matrix: Water

Date Received: 04/05/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 16:23	5
Barium	0.027		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 16:23	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:23	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:23	5
Cobalt	0.00082	J	0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 16:23	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 16:23	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 16:23	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 16:23	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 16:23	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 16:23	5
Lithium	0.0055		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 16:23	5
Calcium	12		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 16:23	5
Boron	<0.021		0.050	0.021	mg/L		04/16/19 18:10	04/17/19 16:23	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	63		10	10	mg/L			04/08/19 11:54	1

Client Sample ID: WGWA-7

Lab Sample ID: 180-88630-14

Date Collected: 04/02/19 11:15

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			04/15/19 19:11	1
Fluoride	<0.026		0.20	0.026	mg/L			04/15/19 19:11	1
Sulfate	0.40	J	1.0	0.38	mg/L			04/15/19 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 16:27	5
Barium	0.011		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 16:27	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:27	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:27	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 16:27	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 16:27	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 16:27	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 16:27	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 16:27	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 16:27	5
Lithium	<0.0011		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 16:27	5
Calcium	1.1		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 16:27	5
Boron	<0.021		0.050	0.021	mg/L		04/16/19 18:10	04/17/19 16:27	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	15		10	10	mg/L			04/09/19 13:59	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWA-4

Lab Sample ID: 180-88630-15

Date Collected: 04/02/19 12:45

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			04/15/19 19:26	1
Fluoride	0.14	J	0.20	0.026	mg/L			04/15/19 19:26	1
Sulfate	8.1		1.0	0.38	mg/L			04/15/19 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 16:32	5
Barium	0.0056		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 16:32	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:32	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 16:32	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 16:32	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 16:32	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 16:32	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 16:32	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 16:32	5
Lithium	0.0036	J	0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 16:32	5
Calcium	15		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 16:32	5
Boron	<0.021		0.050	0.021	mg/L		04/16/19 18:10	04/17/19 16:32	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			04/09/19 13:59	1

Client Sample ID: WGWA-3

Lab Sample ID: 180-88630-16

Date Collected: 04/02/19 13:50

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			04/15/19 19:42	1
Fluoride	0.039	J	0.20	0.026	mg/L			04/15/19 19:42	1
Sulfate	1.1		1.0	0.38	mg/L			04/15/19 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 16:35	5
Barium	0.014		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 16:35	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:35	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:35	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 16:35	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 16:35	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 16:35	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 16:35	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 16:35	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 16:35	5
Lithium	<0.0011		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 16:35	5
Calcium	1.8		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 16:35	5
Boron	<0.021		0.050	0.021	mg/L		04/16/19 18:10	04/17/19 16:35	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWA-3

Lab Sample ID: 180-88630-16

Date Collected: 04/02/19 13:50

Matrix: Water

Date Received: 04/05/19 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	28		10	10	mg/L			04/09/19 13:59	1

Client Sample ID: WGWC-19

Lab Sample ID: 180-88630-17

Date Collected: 04/02/19 14:55

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.5		1.0	0.71	mg/L			04/15/19 19:58	1
Fluoride	0.33		0.20	0.026	mg/L			04/15/19 19:58	1
Sulfate	3.8		1.0	0.38	mg/L			04/15/19 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 16:39	5
Barium	0.0013	J	0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 16:39	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:39	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:39	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 16:39	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 16:39	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 16:39	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 16:39	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 16:39	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 16:39	5
Lithium	0.052		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 16:39	5
Calcium	11		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 16:39	5
Boron	<0.021		0.050	0.021	mg/L		04/16/19 18:10	04/17/19 16:39	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	88		10	10	mg/L			04/09/19 13:59	1

Client Sample ID: WGWC-12

Lab Sample ID: 180-88630-18

Date Collected: 04/03/19 11:05

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.0		1.0	0.71	mg/L			04/15/19 20:14	1
Fluoride	0.084	J	0.20	0.026	mg/L			04/15/19 20:14	1
Sulfate	13		1.0	0.38	mg/L			04/15/19 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 16:44	5
Barium	0.015		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 16:44	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:44	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:44	5
Cobalt	0.00043	J	0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 16:44	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 16:44	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 16:44	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWC-12

Lab Sample ID: 180-88630-18

Date Collected: 04/03/19 11:05

Matrix: Water

Date Received: 04/05/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 16:44	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 16:44	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 16:44	5
Lithium	0.0075		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 16:44	5
Calcium	14		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 16:44	5
Boron	<0.021		0.050	0.021	mg/L		04/16/19 18:10	04/17/19 16:44	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	66		10	10	mg/L			04/10/19 16:42	1

Client Sample ID: WGWC-11

Lab Sample ID: 180-88630-19

Date Collected: 04/03/19 12:20

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.3		1.0	0.71	mg/L			04/16/19 06:00	1
Fluoride	0.048	J	0.20	0.026	mg/L			04/16/19 06:00	1
Sulfate	1.9		1.0	0.38	mg/L			04/16/19 06:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 16:47	5
Barium	0.035		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 16:47	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:47	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:47	5
Cobalt	0.00081	J	0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 16:47	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 16:47	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 16:47	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 16:47	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 16:47	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 16:47	5
Lithium	<0.0011		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 16:47	5
Calcium	1.7		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 16:47	5
Boron	<0.021		0.050	0.021	mg/L		04/16/19 18:10	04/17/19 16:47	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/10/19 16:42	1

Client Sample ID: WGWC-13

Lab Sample ID: 180-88630-20

Date Collected: 04/03/19 13:20

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			04/16/19 07:02	1
Fluoride	0.24		0.20	0.026	mg/L			04/16/19 07:02	1
Sulfate	3.8		1.0	0.38	mg/L			04/16/19 07:02	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWC-13

Lab Sample ID: 180-88630-20

Date Collected: 04/03/19 13:20

Matrix: Water

Date Received: 04/05/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00053	J	0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 16:51	5
Barium	0.056		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 16:51	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:51	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:51	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 16:51	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 16:51	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 16:51	5
Lead	0.00047	J	0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 16:51	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 16:51	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 16:51	5
Lithium	<0.0011		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 16:51	5
Calcium	4.7		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 16:51	5
Boron	<0.021		0.050	0.021	mg/L		04/16/19 18:10	04/17/19 16:51	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	72		10	10	mg/L			04/10/19 16:42	1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-88630-21

Date Collected: 04/03/19 14:35

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.71	mg/L			04/16/19 07:17	1
Fluoride	0.048	J	0.20	0.026	mg/L			04/16/19 07:17	1
Sulfate	3.8		1.0	0.38	mg/L			04/16/19 07:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 16:56	5
Barium	0.026		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 16:56	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:56	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 16:56	5
Cobalt	0.0056		0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 16:56	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 16:56	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 16:56	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 16:56	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 16:56	5
Thallium	0.00012	J	0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 16:56	5
Lithium	0.0015	J	0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 16:56	5
Calcium	0.84		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 16:56	5
Boron	<0.021		0.050	0.021	mg/L		04/16/19 18:10	04/17/19 16:56	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	31		10	10	mg/L			04/10/19 16:42	1

Client Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWC-15

Lab Sample ID: 180-88630-23

Date Collected: 04/04/19 10:35

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7		1.0	0.71	mg/L			04/16/19 07:32	1
Fluoride	0.78		0.20	0.026	mg/L			04/16/19 07:32	1
Sulfate	41		1.0	0.38	mg/L			04/16/19 07:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0019		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 17:00	5
Barium	0.022		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 17:00	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 17:00	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 17:00	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 17:00	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 17:00	5
Molybdenum	0.0039	J	0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 17:00	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 17:00	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 17:00	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 17:00	5
Lithium	0.0054		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 17:00	5
Calcium	30		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 17:00	5
Boron	<0.021		0.050	0.021	mg/L		04/16/19 18:10	04/17/19 17:00	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			04/11/19 11:51	1

Client Sample ID: WGWC-16

Lab Sample ID: 180-88630-24

Date Collected: 04/04/19 11:40

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		1.0	0.71	mg/L			04/16/19 06:46	1
Fluoride	0.080	J	0.20	0.026	mg/L			04/16/19 06:46	1
Sulfate	250		5.0	1.9	mg/L			04/16/19 07:48	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 17:24	5
Barium	0.027		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 17:24	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 17:24	5
Cadmium	0.00047	J	0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 17:24	5
Cobalt	0.00077	J	0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 17:24	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 17:24	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 17:24	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 17:24	5
Selenium	0.0091		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 17:24	5
Thallium	0.000095	J	0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 17:24	5
Lithium	0.0077		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 17:24	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	110		1.3	0.63	mg/L		04/16/19 18:10	04/18/19 09:20	25

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Client Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Client Sample ID: WGWC-16

Lab Sample ID: 180-88630-24

Date Collected: 04/04/19 11:40

Matrix: Water

Date Received: 04/05/19 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.2		0.25	0.11	mg/L		04/16/19 18:10	04/18/19 09:20	25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	710		10	10	mg/L			04/11/19 11:51	1

Client Sample ID: FB-2-4-4-19

Lab Sample ID: 180-88630-25

Date Collected: 04/04/19 12:00

Matrix: Water

Date Received: 04/05/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/16/19 08:33	1
Fluoride	0.043	J	0.20	0.026	mg/L			04/16/19 08:33	1
Sulfate	<0.38		1.0	0.38	mg/L			04/16/19 08:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 17:27	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 17:27	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 17:27	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 17:27	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 17:27	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 17:27	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 17:27	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 17:27	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 17:27	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 17:27	5
Lithium	<0.0011		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 17:27	5
Calcium	<0.13		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 17:27	5
Boron	0.044	J	0.050	0.021	mg/L		04/16/19 18:10	04/17/19 17:27	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/11/19 11:51	1

QC Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-275706/39
Matrix: Water
Analysis Batch: 275706

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			04/15/19 13:38	1
Fluoride	<0.026		0.20	0.026	mg/L			04/15/19 13:38	1
Sulfate	<0.38		1.0	0.38	mg/L			04/15/19 13:38	1

Lab Sample ID: LCS 180-275706/38
Matrix: Water
Analysis Batch: 275706

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.9		mg/L		100	90 - 110
Fluoride	1.25	1.25		mg/L		100	90 - 110
Sulfate	25.0	24.7		mg/L		99	90 - 110

Lab Sample ID: 180-88630-1 MS
Matrix: Water
Analysis Batch: 275706

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	4.0		25.0	29.2		mg/L		101	80 - 120
Fluoride	<0.026		1.25	1.24		mg/L		99	80 - 120
Sulfate	<0.38		25.0	24.9		mg/L		100	80 - 120

Lab Sample ID: 180-88630-1 MSD
Matrix: Water
Analysis Batch: 275706

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	4.0		25.0	29.3		mg/L		101	80 - 120	0	20
Fluoride	<0.026		1.25	1.25		mg/L		100	80 - 120	1	20
Sulfate	<0.38		25.0	24.9		mg/L		100	80 - 120	0	20

Lab Sample ID: MB 180-275800/6
Matrix: Water
Analysis Batch: 275800

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			04/16/19 05:30	1
Fluoride	<0.026		0.20	0.026	mg/L			04/16/19 05:30	1
Sulfate	<0.38		1.0	0.38	mg/L			04/16/19 05:30	1

Lab Sample ID: LCS 180-275800/5
Matrix: Water
Analysis Batch: 275800

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.6		mg/L		98	90 - 110
Fluoride	1.25	1.21		mg/L		97	90 - 110
Sulfate	25.0	24.7		mg/L		99	90 - 110

QC Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-88630-19 MS
Matrix: Water
Analysis Batch: 275800

Client Sample ID: WGWC-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.3		25.0	30.0		mg/L		107	80 - 120
Fluoride	0.048	J	1.25	1.33		mg/L		103	80 - 120
Sulfate	1.9		25.0	28.5		mg/L		106	80 - 120

Lab Sample ID: 180-88630-19 MSD
Matrix: Water
Analysis Batch: 275800

Client Sample ID: WGWC-11
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		25.0	29.5		mg/L		105	80 - 120	1	20
Fluoride	0.048	J	1.25	1.33		mg/L		102	80 - 120	1	20
Sulfate	1.9		25.0	27.9		mg/L		104	80 - 120	2	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-437187/1-A ^5
Matrix: Water
Analysis Batch: 437398

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 437187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/15/19 16:45	04/17/19 08:41	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/15/19 16:45	04/17/19 08:41	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/15/19 16:45	04/17/19 08:41	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/15/19 16:45	04/17/19 08:41	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/15/19 16:45	04/17/19 08:41	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/15/19 16:45	04/17/19 08:41	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/15/19 16:45	04/17/19 08:41	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/15/19 16:45	04/17/19 08:41	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/15/19 16:45	04/17/19 08:41	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/15/19 16:45	04/17/19 08:41	5
Lithium	<0.0011		0.0050	0.0011	mg/L		04/15/19 16:45	04/17/19 08:41	5
Calcium	<0.13		0.25	0.13	mg/L		04/15/19 16:45	04/17/19 08:41	5
Boron	<0.021		0.050	0.021	mg/L		04/15/19 16:45	04/17/19 08:41	5

Lab Sample ID: LCS 400-437187/2-A
Matrix: Water
Analysis Batch: 437398

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 437187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.0498		mg/L		100	80 - 120
Barium	0.0500	0.0482		mg/L		96	80 - 120
Beryllium	0.0500	0.0475		mg/L		95	80 - 120
Cadmium	0.0500	0.0495		mg/L		99	80 - 120
Cobalt	0.0500	0.0505		mg/L		101	80 - 120
Chromium	0.0500	0.0476		mg/L		95	80 - 120
Molybdenum	0.0500	0.0526		mg/L		105	80 - 120
Lead	0.0500	0.0485		mg/L		97	80 - 120
Selenium	0.0500	0.0510		mg/L		102	80 - 120
Thallium	0.0100	0.00948		mg/L		95	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

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

Lab Sample ID: LCS 400-437187/2-A
Matrix: Water
Analysis Batch: 437398

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 437187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.0500	0.0473		mg/L		95	80 - 120
Calcium	5.00	4.62		mg/L		92	80 - 120
Boron	0.100	0.0975		mg/L		98	80 - 120

Lab Sample ID: MB 400-437361/1-A ^1
Matrix: Water
Analysis Batch: 437615

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 437361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.000092		0.00025	0.000092	mg/L		04/16/19 18:10	04/17/19 17:32	1
Barium	<0.000098		0.00050	0.000098	mg/L		04/16/19 18:10	04/17/19 17:32	1
Beryllium	<0.000068		0.00050	0.000068	mg/L		04/16/19 18:10	04/17/19 17:32	1
Cadmium	<0.000068		0.00050	0.000068	mg/L		04/16/19 18:10	04/17/19 17:32	1
Cobalt	<0.000080		0.00050	0.000080	mg/L		04/16/19 18:10	04/17/19 17:32	1
Chromium	<0.00022		0.00050	0.00022	mg/L		04/16/19 18:10	04/17/19 17:32	1
Molybdenum	<0.00040		0.0030	0.00040	mg/L		04/16/19 18:10	04/17/19 17:32	1
Lead	<0.000070		0.00025	0.000070	mg/L		04/16/19 18:10	04/17/19 17:32	1
Selenium	<0.00014		0.00025	0.00014	mg/L		04/16/19 18:10	04/17/19 17:32	1
Thallium	<0.000017		0.00010	0.000017	mg/L		04/16/19 18:10	04/17/19 17:32	1
Lithium	<0.00022		0.0010	0.00022	mg/L		04/16/19 18:10	04/17/19 17:32	1
Calcium	<0.025		0.050	0.025	mg/L		04/16/19 18:10	04/17/19 17:32	1
Boron	<0.0042		0.010	0.0042	mg/L		04/16/19 18:10	04/17/19 17:32	1

Lab Sample ID: MB 400-437361/1-A ^5
Matrix: Water
Analysis Batch: 437615

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 437361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 14:55	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 14:55	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 14:55	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/16/19 18:10	04/17/19 14:55	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/16/19 18:10	04/17/19 14:55	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/16/19 18:10	04/17/19 14:55	5
Molybdenum	<0.0020		0.015	0.0020	mg/L		04/16/19 18:10	04/17/19 14:55	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/16/19 18:10	04/17/19 14:55	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/16/19 18:10	04/17/19 14:55	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/16/19 18:10	04/17/19 14:55	5
Lithium	<0.0011		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 14:55	5
Calcium	<0.13		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 14:55	5
Boron	<0.021		0.050	0.021	mg/L		04/16/19 18:10	04/17/19 14:55	5

Lab Sample ID: LCS 400-437361/2-A
Matrix: Water
Analysis Batch: 437615

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 437361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.0527		mg/L		105	80 - 120
Barium	0.0500	0.0507		mg/L		101	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

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

Lab Sample ID: LCS 400-437361/2-A
Matrix: Water
Analysis Batch: 437615

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 437361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.0500	0.0488		mg/L		98	80 - 120
Cadmium	0.0500	0.0515		mg/L		103	80 - 120
Cobalt	0.0500	0.0516		mg/L		103	80 - 120
Chromium	0.0500	0.0496		mg/L		99	80 - 120
Molybdenum	0.0500	0.0513		mg/L		103	80 - 120
Lead	0.0500	0.0477		mg/L		95	80 - 120
Selenium	0.0500	0.0503		mg/L		101	80 - 120
Thallium	0.0100	0.00974		mg/L		97	80 - 120
Lithium	0.0500	0.0509		mg/L		102	80 - 120
Calcium	5.00	5.20		mg/L		104	80 - 120
Boron	0.100	0.0957		mg/L		96	80 - 120

Lab Sample ID: 180-88630-7 MS
Matrix: Water
Analysis Batch: 437615

Client Sample ID: WGWC-8
Prep Type: Total Recoverable
Prep Batch: 437361

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.00046		0.0500	0.0544		mg/L		109	75 - 125
Barium	0.0010	J	0.0500	0.0532		mg/L		104	75 - 125
Beryllium	0.0019	J	0.0500	0.0513		mg/L		99	75 - 125
Cadmium	<0.00034		0.0500	0.0533		mg/L		107	75 - 125
Cobalt	0.0037		0.0500	0.0554		mg/L		103	75 - 125
Chromium	<0.0011		0.0500	0.0504		mg/L		101	75 - 125
Molybdenum	<0.0020		0.0500	0.0534		mg/L		107	75 - 125
Lead	<0.00035		0.0500	0.0486		mg/L		97	75 - 125
Selenium	0.0031		0.0500	0.0562		mg/L		106	75 - 125
Thallium	<0.000085		0.0100	0.00977		mg/L		98	75 - 125
Lithium	0.015		0.0500	0.0657		mg/L		102	75 - 125
Calcium	61		5.00	66.5	4	mg/L		119	75 - 125
Boron	1.7		0.100	1.85	E 4	mg/L		174	75 - 125

Lab Sample ID: 180-88630-7 MSD
Matrix: Water
Analysis Batch: 437615

Client Sample ID: WGWC-8
Prep Type: Total Recoverable
Prep Batch: 437361

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.00046		0.0500	0.0547		mg/L		109	75 - 125	1	20
Barium	0.0010	J	0.0500	0.0516		mg/L		101	75 - 125	3	20
Beryllium	0.0019	J	0.0500	0.0515		mg/L		99	75 - 125	0	20
Cadmium	<0.00034		0.0500	0.0525		mg/L		105	75 - 125	2	20
Cobalt	0.0037		0.0500	0.0564		mg/L		105	75 - 125	2	20
Chromium	<0.0011		0.0500	0.0510		mg/L		102	75 - 125	1	20
Molybdenum	<0.0020		0.0500	0.0508		mg/L		102	75 - 125	5	20
Lead	<0.00035		0.0500	0.0496		mg/L		99	75 - 125	2	20
Selenium	0.0031		0.0500	0.0548		mg/L		103	75 - 125	3	20
Thallium	<0.000085		0.0100	0.0103		mg/L		103	75 - 125	5	20
Lithium	0.015		0.0500	0.0678		mg/L		107	75 - 125	3	20
Calcium	61		5.00	68.8	4	mg/L		167	75 - 125	4	20
Boron	1.7		0.100	1.88	E 4	mg/L		197	75 - 125	1	20

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-88630-1
SDG: Ash Pond

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

Lab Sample ID: MB 180-275110/2
Matrix: Water
Analysis Batch: 275110

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			04/08/19 11:54	1

Lab Sample ID: LCS 180-275110/1
Matrix: Water
Analysis Batch: 275110

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	304	286		mg/L		94	80 - 120

Lab Sample ID: MB 180-275263/2
Matrix: Water
Analysis Batch: 275263

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			04/09/19 13:59	1

Lab Sample ID: LCS 180-275263/1
Matrix: Water
Analysis Batch: 275263

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	201	166		mg/L		83	80 - 120

Lab Sample ID: MB 180-275424/2
Matrix: Water
Analysis Batch: 275424

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			04/10/19 16:42	1

Lab Sample ID: LCS 180-275424/1
Matrix: Water
Analysis Batch: 275424

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	201	164		mg/L		82	80 - 120

Lab Sample ID: MB 180-275517/2
Matrix: Water
Analysis Batch: 275517

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			04/11/19 11:51	1

Lab Sample ID: LCS 180-275517/1
Matrix: Water
Analysis Batch: 275517

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	201	182		mg/L		91	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Association Summary

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

Job ID: 180-88630-1
SDG: Ash Pond

HPLC/IC

Analysis Batch: 275706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-1	WGWA-1	Total/NA	Water	300.0	
180-88630-2	WGWA-5	Total/NA	Water	300.0	
180-88630-3	WGWA-6	Total/NA	Water	300.0	
180-88630-4	FB-1-4-2-19	Total/NA	Water	300.0	
180-88630-5	WGWA-18	Total/NA	Water	300.0	
180-88630-6	WGWC-9	Total/NA	Water	300.0	
180-88630-7	WGWC-8	Total/NA	Water	300.0	
180-88630-8	WGWC-17	Total/NA	Water	300.0	
180-88630-9	EB-2-4-4-19	Total/NA	Water	300.0	
180-88630-10	WGWC-10	Total/NA	Water	300.0	
180-88630-11	DUP-2-4-3-19	Total/NA	Water	300.0	
180-88630-12	DUP-1	Total/NA	Water	300.0	
180-88630-13	WGWA-2	Total/NA	Water	300.0	
180-88630-14	WGWA-7	Total/NA	Water	300.0	
180-88630-15	WGWA-4	Total/NA	Water	300.0	
180-88630-16	WGWA-3	Total/NA	Water	300.0	
180-88630-17	WGWC-19	Total/NA	Water	300.0	
180-88630-18	WGWC-12	Total/NA	Water	300.0	
MB 180-275706/39	Method Blank	Total/NA	Water	300.0	
LCS 180-275706/38	Lab Control Sample	Total/NA	Water	300.0	
180-88630-1 MS	WGWA-1	Total/NA	Water	300.0	
180-88630-1 MSD	WGWA-1	Total/NA	Water	300.0	

Analysis Batch: 275800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-19	WGWC-11	Total/NA	Water	300.0	
180-88630-20	WGWC-13	Total/NA	Water	300.0	
180-88630-21	WGWC-14A	Total/NA	Water	300.0	
180-88630-23	WGWC-15	Total/NA	Water	300.0	
180-88630-24	WGWC-16	Total/NA	Water	300.0	
180-88630-24	WGWC-16	Total/NA	Water	300.0	
180-88630-25	FB-2-4-4-19	Total/NA	Water	300.0	
MB 180-275800/6	Method Blank	Total/NA	Water	300.0	
LCS 180-275800/5	Lab Control Sample	Total/NA	Water	300.0	
180-88630-19 MS	WGWC-11	Total/NA	Water	300.0	
180-88630-19 MSD	WGWC-11	Total/NA	Water	300.0	

Metals

Prep Batch: 437187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-1	WGWA-1	Total Recoverable	Water	3005A	
180-88630-2	WGWA-5	Total Recoverable	Water	3005A	
180-88630-3	WGWA-6	Total Recoverable	Water	3005A	
180-88630-4	FB-1-4-2-19	Total Recoverable	Water	3005A	
180-88630-5	WGWA-18	Total Recoverable	Water	3005A	
180-88630-6	WGWC-9	Total Recoverable	Water	3005A	
MB 400-437187/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-437187/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

QC Association Summary

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

Job ID: 180-88630-1
SDG: Ash Pond

Metals

Prep Batch: 437361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-7	WGWC-8	Total Recoverable	Water	3005A	
180-88630-8	WGWC-17	Total Recoverable	Water	3005A	
180-88630-9	EB-2-4-4-19	Total Recoverable	Water	3005A	
180-88630-10	WGWC-10	Total Recoverable	Water	3005A	
180-88630-11	DUP-2-4-3-19	Total Recoverable	Water	3005A	
180-88630-12	DUP-1	Total Recoverable	Water	3005A	
180-88630-13	WGWA-2	Total Recoverable	Water	3005A	
180-88630-14	WGWA-7	Total Recoverable	Water	3005A	
180-88630-15	WGWA-4	Total Recoverable	Water	3005A	
180-88630-16	WGWA-3	Total Recoverable	Water	3005A	
180-88630-17	WGWC-19	Total Recoverable	Water	3005A	
180-88630-18	WGWC-12	Total Recoverable	Water	3005A	
180-88630-19	WGWC-11	Total Recoverable	Water	3005A	
180-88630-20	WGWC-13	Total Recoverable	Water	3005A	
180-88630-21	WGWC-14A	Total Recoverable	Water	3005A	
180-88630-23	WGWC-15	Total Recoverable	Water	3005A	
180-88630-24	WGWC-16	Total Recoverable	Water	3005A	
180-88630-24 - DL	WGWC-16	Total Recoverable	Water	3005A	
180-88630-25	FB-2-4-4-19	Total Recoverable	Water	3005A	
MB 400-437361/1-A ^1	Method Blank	Total Recoverable	Water	3005A	
MB 400-437361/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-437361/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-88630-7 MS	WGWC-8	Total Recoverable	Water	3005A	
180-88630-7 MSD	WGWC-8	Total Recoverable	Water	3005A	

Analysis Batch: 437398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-1	WGWA-1	Total Recoverable	Water	6020	437187
180-88630-2	WGWA-5	Total Recoverable	Water	6020	437187
180-88630-3	WGWA-6	Total Recoverable	Water	6020	437187
180-88630-4	FB-1-4-2-19	Total Recoverable	Water	6020	437187
180-88630-5	WGWA-18	Total Recoverable	Water	6020	437187
180-88630-6	WGWC-9	Total Recoverable	Water	6020	437187
MB 400-437187/1-A ^5	Method Blank	Total Recoverable	Water	6020	437187
LCS 400-437187/2-A	Lab Control Sample	Total Recoverable	Water	6020	437187

Analysis Batch: 437615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-7	WGWC-8	Total Recoverable	Water	6020	437361
180-88630-8	WGWC-17	Total Recoverable	Water	6020	437361
180-88630-9	EB-2-4-4-19	Total Recoverable	Water	6020	437361
180-88630-10	WGWC-10	Total Recoverable	Water	6020	437361
180-88630-11	DUP-2-4-3-19	Total Recoverable	Water	6020	437361
180-88630-12	DUP-1	Total Recoverable	Water	6020	437361
180-88630-13	WGWA-2	Total Recoverable	Water	6020	437361
180-88630-14	WGWA-7	Total Recoverable	Water	6020	437361
180-88630-15	WGWA-4	Total Recoverable	Water	6020	437361
180-88630-16	WGWA-3	Total Recoverable	Water	6020	437361
180-88630-17	WGWC-19	Total Recoverable	Water	6020	437361
180-88630-18	WGWC-12	Total Recoverable	Water	6020	437361
180-88630-19	WGWC-11	Total Recoverable	Water	6020	437361

Eurofins TestAmerica, Pittsburgh

QC Association Summary

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

Job ID: 180-88630-1
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 437615 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-20	WGWC-13	Total Recoverable	Water	6020	437361
180-88630-21	WGWC-14A	Total Recoverable	Water	6020	437361
180-88630-23	WGWC-15	Total Recoverable	Water	6020	437361
180-88630-24	WGWC-16	Total Recoverable	Water	6020	437361
180-88630-24 - DL	WGWC-16	Total Recoverable	Water	6020	437361
180-88630-25	FB-2-4-4-19	Total Recoverable	Water	6020	437361
MB 400-437361/1-A ^1	Method Blank	Total Recoverable	Water	6020	437361
MB 400-437361/1-A ^5	Method Blank	Total Recoverable	Water	6020	437361
LCS 400-437361/2-A	Lab Control Sample	Total Recoverable	Water	6020	437361
180-88630-7 MS	WGWC-8	Total Recoverable	Water	6020	437361
180-88630-7 MSD	WGWC-8	Total Recoverable	Water	6020	437361

General Chemistry

Analysis Batch: 275110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-1	WGWA-1	Total/NA	Water	SM 2540C	
180-88630-13	WGWA-2	Total/NA	Water	SM 2540C	
MB 180-275110/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-275110/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 275263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-2	WGWA-5	Total/NA	Water	SM 2540C	
180-88630-3	WGWA-6	Total/NA	Water	SM 2540C	
180-88630-4	FB-1-4-2-19	Total/NA	Water	SM 2540C	
180-88630-5	WGWA-18	Total/NA	Water	SM 2540C	
180-88630-14	WGWA-7	Total/NA	Water	SM 2540C	
180-88630-15	WGWA-4	Total/NA	Water	SM 2540C	
180-88630-16	WGWA-3	Total/NA	Water	SM 2540C	
180-88630-17	WGWC-19	Total/NA	Water	SM 2540C	
MB 180-275263/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-275263/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 275424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-6	WGWC-9	Total/NA	Water	SM 2540C	
180-88630-7	WGWC-8	Total/NA	Water	SM 2540C	
180-88630-18	WGWC-12	Total/NA	Water	SM 2540C	
180-88630-19	WGWC-11	Total/NA	Water	SM 2540C	
180-88630-20	WGWC-13	Total/NA	Water	SM 2540C	
180-88630-21	WGWC-14A	Total/NA	Water	SM 2540C	
MB 180-275424/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-275424/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 275517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-8	WGWC-17	Total/NA	Water	SM 2540C	
180-88630-9	EB-2-4-4-19	Total/NA	Water	SM 2540C	
180-88630-10	WGWC-10	Total/NA	Water	SM 2540C	
180-88630-11	DUP-2-4-3-19	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 180-88630-1
SDG: Ash Pond

General Chemistry (Continued)

Analysis Batch: 275517 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-12	DUP-1	Total/NA	Water	SM 2540C	
180-88630-23	WGWC-15	Total/NA	Water	SM 2540C	
180-88630-24	WGWC-16	Total/NA	Water	SM 2540C	
180-88630-25	FB-2-4-4-19	Total/NA	Water	SM 2540C	
MB 180-275517/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-275517/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Chain of Custody Record

Client Information		Lab PM:		Carrier Tracking No(s):		COC No:							
Southern Company		Verona Bertel											
Address: PO BOX 2641 GSC8		E-Mail: Veronika.Bertel@testamerica.com											
City: Birmingham													
State, Zip: AL, 35291													
Phone:													
PO #: SCS10347656													
WO #:													
Email: JAbraham@southernco.com													
Project Name: CCR - Plant Wansley - Ash Pond													
Site: Georgia													
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Metals App. III (EPA 6020/7470)	C, F, SO ₄ & TDS (EPA 300.0 & SM 2540C)	Detected App IV Metals (See list below)	Radium 226 & 228 (SW-846 9315/9320)	Total Number of Containers	Spec:	Preservation Codes:
wGwA-1	4-1-19	1345	G	w	N	✓	✓	✓	✓	✓	3	APP III	M - Hexane N - Nore O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - Other (specify)
wGwA-5	4-2-19	1130	G	w	N	✓	✓	✓	✓	✓	3		
wGwA-6	4-2-19	1315	G	w	N	✓	✓	✓	✓	✓	3		
FB-1-4-2-19	4-2-19	1210	G	w	N	✓	✓	✓	✓	✓	3		
wGwA-18	4-2-19	1425	G	w	N	✓	✓	✓	✓	✓	3		
wGwC-9	4-3-19	1340	G	w	N	✓	✓	✓	✓	✓	3		
wGwC-8	4-3-19	1450	G	w	N	✓	✓	✓	✓	✓	3		
wGwC-17	4-4-19	0955	G	w	N	✓	✓	✓	✓	✓	3		
FB-2-4-4-19	4-4-19	0940	G	w	N	✓	✓	✓	✓	✓	3		
wGwC-10	4-4-19	1135	G	w	N	✓	✓	✓	✓	✓	3		
Dyp-2-4-3-19			G	w	N	✓	✓	✓	✓	✓	3		

180-88630-01 Chain of Custody

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: _____

Relinquished by: _____ Date/Time: 4/4/19 1435 Company: ACC

Relinquished by: _____ Date/Time: 4-4-19 1513 Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

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: _____

Method of Shipment: _____ Date/Time: 4-4-19 1435 Company: _____

Received by: _____ Date/Time: 4-5-19 Company: JADA

Received by: _____ Date/Time: 900 Company: _____




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

Client Information		Lab P.Y.: Veronica Bertot	Carrier Tracking No(s):	COC No:
Client Contact: Joju Abraham		E-Mail: Veronica.Bertot@testamerica.com		Page:
Company: Southern Company				Job #:
Address: PO BOX 2641 GSC8				
City: Birmingham				
State, Zip: AL, 35291				
Phone:				
PO #: SCS10347656				
WO #:				
Email: JAbraham@southernco.com				
Project #: 40007709				
Site: CCR - Plant Wansley - Ash Pond				
Georgia				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, B=issue, A=air)	Analysis Requested				Total Number of Containers	Special II
					Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Metals App. III (EPA 6020/470)	C, F, SO ₄ & TDS (EPA 300.0 & SM 2540C)		
DUP-1			G	W	N	✓	✓	✓	3	APP III
WGWA-2	4-1-19	1450	G	W	✓	✓	✓	✓	3	
WGWA-7	4-2-19	1115	G	W	✓	✓	✓	✓	3	
WGWA-4	4-2-19	1245	G	W	✓	✓	✓	✓	3	
WGWA-3	4-2-19	1350	G	W	✓	✓	✓	✓	3	
WGWC-19	4-2-19	1455	G	W	✓	✓	✓	✓	3	
WGWC-12	4-3-19	1100 ^{AM}	G	W	✓	✓	✓	✓	3	
WGWC-11	4-3-19	1220	G	W	✓	✓	✓	✓	3	
WGWC-13	4-3-19	1320	G	W	✓	✓	✓	✓	3	
WGWC-14A	4-3-19	1435	G	W	✓	✓	✓	✓	3	
EB-1-4-3-19	4-3-19	0930	G	W	✓	✓	✓	✓	3	

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"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab
<input type="checkbox"/> Deliverable Requested: I, II, III, IV, Other (specify)	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Archive For	Months
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 4-4-19	1935
Relinquished by: <i>[Signature]</i>		Date/Time: 4-4-19	1513
Relinquished by: <i>[Signature]</i>		Date/Time: 4-4-19	900
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	

Chain of Custody Record

Client Information Client Contact: Joju Abraham Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: (770) 544-5998 Lab PM: Veronica Burt E-Mail: Veronica.Burt@testamerica.com			Sampler: O. Fuqua Phone: (770) 544-5998 Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 40007709 SSON#:			Carmer Tracking No(s): Page: Job #: 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 - EPA Other: M - Hexane N - None O - ASNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)		
Sample Identification WGWC-15 WGWC-16 FB-2-4-4-19			Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Metals App. III (EPA 602/7470) Cr, F, SO4 & TDS (EPA 300.0 & SM 2540C) Detected App IV Metals (See list below) Radium 226 & 228 (SW-846 9316/9320)			Total Number of Containers 3 3 3		
Sample Date 4-4-19 4-4-19 4-4-19			Sample Time 1035 1140 1200			Sample Type (C=comp, G=grab) G G G		
Preservation Code: W W W			Special Instructions/Note: APP III			180-88630-03 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			Special Instructions/QC Requirements:		
Empty Kit Relinquished by:			Date: 4-4-19 Company: ACC			Method of Shipment:		
Relinquished by:			Date/Time: 4-4-19 1513 Company:			Date/Time: 4-4-19 1433 Company:		
Relinquished by:			Date/Time: 4-4-19 1513 Company:			Date/Time: 4-5-19 Company:		
Relinquished by:			Date/Time:			Date/Time: 900 Company:		
Custody Seals Intact: Δ Yes Δ No			Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:		

ENVIRONMENTAL TESTING

SHIP DATE: 04APR. 1991
ACT WT: 59.60 LB
CAD: 8591116/CAFE32

BILL RECIPIENT

(678) 966-9981
AMERICA, ATLANTA
OUGH DRIVE
SS, GA 30093
ED STATES US

SAMPLE RECEIVING
TA PITTSBURGH
301 ALPHA DRIVE
RILC PARK
PITTSBURGH PA 15238

(412) 963-7058

Uncofected temp 24 °C

Thermometer ID 10

CF 0 Initials BS

PITTSBURGH 001 effective 1/8/91

4 of 5

651 008

651 0081

AC



180-88630 Waybill

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NA AGCA

MPS# 4651 0081 1103
3 of 5
FRI - 05 A
STANDARD OV
4651 0081 1088
0201



Uncorrected temp 14 C
Thermometer ID 10
CF 0 Initials JS

SAMPLE RECEIVING
7A PITTSBURGH
301 ALPHA DRIVE
RIDG PARK
PITTSBURGH PA 15238
EFF: SOUTHERN CO
(412) 968-7058

ORI: IN ID: MULA (678) 966-9991
GEORGE TAYLOR
EUROFINSTESTAMERICA, ATLANTA
5701 MCDONOUGH DRIVE
MCDOROSS, GA 30093
UNITED STATES US
SHIP DATE: 04APR13
ACTWGT: 59.60 LB
CAD: 859116/CAFE0211
BILL RECIPIENT

Testam
THE LEADER IN ENVIRONMF
RT 97
16:00
17:03
04:05
NG
A

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN: ID, TULA (678) 966-9991
GEORGE W. OR
EUROFINS TESTAMERICA, ATLANTA
6500 NICHOLS DRIVE

GA 30093
UNITED STATES US

SAMPLE RECEIVING
1A PITTSBURGH
ALPHA DRIVE
PARK

PITTSBURGH PA 15238
REF SOUTHERN CO

SHIP DATE: 04APR18
ACTING: 59.60
CAD: 859116/CAFE34

BILL RECIPIENT



FRI - 05 APR 3:00P
STANDARD OVERNIGHT

15238

PA-US

MPS# 4651 0081 1099

Mstr# 4651 0081 1088

NA AGCA

Uncorrected temp 1.8 °C
Thermometer ID 10
CF 0 Initials TJ

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

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- 13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

692589

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BILL RECIPIENT
SHIP ORIGIN: 89-344P19
RATING: 89-344P19
GPO: 893119/0432211

TO: SAMPLE RECEIVING
301 ALPHA DRIVE
PITTSBURGH PA 15138



FRI - 05 APR 3:00P
STANDARD OVERNIGHT
PITTSBURGH PA 15138

1 of 5
MASTER # 4651 0081 1088
NA AGCA

CF
Thermometer ID
Uncorrected temp
Initials TS
1.2 / 1.3 °C

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88630-1

SDG Number: Ash Pond

Login Number: 88630

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: 180-88630-1

SDG Number: Ash Pond

Login Number: 88630

List Number: 2

Creator: Avery, Kathy R

List Source: Eurofins TestAmerica, Pensacola

List Creation: 04/12/19 05:43 PM

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.	N/A	Not Present
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	4.2°C IR 7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	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: 180-88630-2

Laboratory Sample Delivery Group: Ash Pond
Client Project/Site: CCR - Plant Wansley

For:

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

Attn: Joju Abraham



Authorized for release by:
5/31/2019 5:29:45 PM

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

LINKS

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www.testamericainc.com

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

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

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	5
Certification Summary	6
Sample Summary	8
Method Summary	9
Lab Chronicle	10
Client Sample Results	18
QC Sample Results	33
QC Association Summary	37
Chain of Custody	39
Receipt Checklists	52

Case Narrative

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

Job ID: 180-88630-2
SDG: Ash Pond

Job ID: 180-88630-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-88630-2

Comments

No additional comments.

Receipt

The samples were received on 4/5/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.2° C, 1.4° C, 1.8° C and 2.4° C.

Receipt Exceptions

The container label for the 500 ml and 250 nitric following sample did not match the information listed on the Chain-of-Custody (COC): EB-1-4-3-19 (180-88630-22). The container labels list WGWC-12 while the COC lists EB-1-4-3-19. There is a separate sample WGWC-12 which has the correct date and time.

RAD

Method(s) PrecSep-21: Radium 226 Prep Batch 160-424964:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: EB-2-4-4-19 (180-88630-9), WGWC-10 (180-88630-10), DUP-2-4-3-19 (180-88630-11), DUP-1 (180-88630-12), WGWA-2 (180-88630-13), WGWA-7 (180-88630-14), WGWA-4 (180-88630-15), WGWA-3 (180-88630-16), WGWC-19 (180-88630-17), WGWC-12 (180-88630-18), WGWC-11 (180-88630-19), WGWC-13 (180-88630-20), WGWC-14A (180-88630-21), WGWC-15 (180-88630-23) and WGWC-16 (180-88630-24). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep_0: Radium 228 Prep Batch 160-424965:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: EB-2-4-4-19 (180-88630-9), WGWC-10 (180-88630-10), DUP-2-4-3-19 (180-88630-11), DUP-1 (180-88630-12), WGWA-2 (180-88630-13), WGWA-7 (180-88630-14), WGWA-4 (180-88630-15), WGWA-3 (180-88630-16), WGWC-19 (180-88630-17), WGWC-12 (180-88630-18), WGWC-11 (180-88630-19), WGWC-13 (180-88630-20), WGWC-14A (180-88630-21), WGWC-15 (180-88630-23) and WGWC-16 (180-88630-24). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep-21: Radium 226 Prep Batch 160-424966:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: FB-2-4-4-19 (180-88630-25). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep_0: Radium 228 Prep Batch 160-424967:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: FB-2-4-4-19 (180-88630-25). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) 904.0, 9320: Ra-228 Prep Batch 160-424965

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

EB-2-4-4-19 (180-88630-9), WGWC-10 (180-88630-10), DUP-2-4-3-19 (180-88630-11), DUP-1 (180-88630-12), WGWA-2 (180-88630-13), WGWA-7 (180-88630-14), WGWA-4 (180-88630-15), WGWA-3 (180-88630-16), WGWC-19 (180-88630-17), WGWC-12 (180-88630-18), WGWC-11 (180-88630-19), WGWC-13 (180-88630-20), WGWC-14A (180-88630-21), WGWC-15 (180-88630-23), WGWC-16 (180-88630-24), (LCS 160-424965/1-A), (LCSD 160-424965/2-A) and (MB 160-424965/23-A)

Case Narrative

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

Job ID: 180-88630-2
SDG: Ash Pond

Job ID: 180-88630-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Method(s) 904.0, 9320: Radium-228 Prep Batch 160-424967

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-2-4-4-19 (180-88630-25), (LCS 160-424967/1-A), (LCSD 160-424967/2-A) and (MB 160-424967/23-A)

Method(s) 903.0, 9315: Ra-226 Prep Batch 160-424966

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-2-4-4-19 (180-88630-25), (LCS 160-424966/1-A), (LCSD 160-424966/2-A) and (MB 160-424966/23-A)

Method(s) 903.0, 9315: Ra-226 Prep Batch 160-424964

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

EB-2-4-4-19 (180-88630-9), WGWC-10 (180-88630-10), DUP-2-4-3-19 (180-88630-11), DUP-1 (180-88630-12), WGWA-2 (180-88630-13), WGWA-7 (180-88630-14), WGWA-4 (180-88630-15), WGWA-3 (180-88630-16), WGWC-19 (180-88630-17), WGWC-12 (180-88630-18), WGWC-11 (180-88630-19), WGWC-13 (180-88630-20), WGWC-14A (180-88630-21), WGWC-15 (180-88630-23), WGWC-16 (180-88630-24), (LCS 160-424964/1-A), (LCSD 160-424964/2-A) and (MB 160-424964/23-A)

Method(s) 903.0, 9315: Ra-226 Prep Batch 160-424955

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 (180-88630-1), WGWA-5 (180-88630-2), WGWA-6 (180-88630-3), FB-1-4-2-19 (180-88630-4), WGWA-18 (180-88630-5), WGWC-9 (180-88630-6), WGWC-8 (180-88630-7), WGWC-17 (180-88630-8), (LCS 160-424955/1-A), (MB 160-424955/23-A), (400-168447-A-8-A) and (400-168447-A-8-B DU)

Method(s) 904.0, 9320: Ra-228 Prep Batch 160-424962

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 (180-88630-1), WGWA-5 (180-88630-2), WGWA-6 (180-88630-3), FB-1-4-2-19 (180-88630-4), WGWA-18 (180-88630-5), WGWC-9 (180-88630-6), WGWC-8 (180-88630-7), WGWC-17 (180-88630-8), (LCS 160-424962/1-A), (MB 160-424962/23-A), (400-168447-A-8-C) and (400-168447-A-8-D DU)

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

Definitions/Glossary

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

Job ID: 180-88630-2
SDG: Ash Pond

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

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

Job ID: 180-88630-2
 SDG: Ash Pond

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-20
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-20
South Carolina	State Program	4	89014	04-30-19 *
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

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

Accreditation/Certification Summary

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

Job ID: 180-88630-2
 SDG: Ash Pond

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	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-19
ANAB	DoD		L2305	04-06-22
Arizona	State Program	9	AZ0813	12-08-19
California	State Program	9	2886	06-30-19 *
Connecticut	State Program	1	PH-0241	03-31-21
Florida	NELAP	4	E87689	06-30-19 *
Hawaii	State Program	9	NA	06-30-19
Illinois	NELAP	5	200023	11-30-19
Iowa	State Program	7	373	12-01-20
Kansas	NELAP	7	E-10236	10-31-19
Kentucky (DW)	State Program	4	KY90125	12-31-19
Louisiana	NELAP	6	04080	06-30-19
Louisiana (DW)	NELAP	6	LA011	12-31-19
Maryland	State Program	3	310	09-30-19
Michigan	State Program	5	9005	06-30-19
Missouri	State Program	7	780	06-30-19
Nevada	State Program	9	MO000542018-1	07-31-19
New Jersey	NELAP	2	MO002	06-30-19 *
New York	NELAP	2	11616	03-31-20
North Dakota	State Program	8	R207	06-30-19 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-19
Pennsylvania	NELAP	3	68-00540	02-28-20
South Carolina	State Program	4	85002001	06-30-19
Texas	NELAP	6	T104704193-18-13	07-31-19
US Fish & Wildlife	Federal		058448	07-31-19
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542018-10	07-31-19
Virginia	NELAP	3	460230	06-14-19 *
Washington	State Program	10	C592	08-30-19
West Virginia DEP	State Program	3	381	08-31-19

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

Sample Summary

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

Job ID: 180-88630-2
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-88630-1	WGWA-1	Water	04/01/19 13:45	04/05/19 09:00	
180-88630-2	WGWA-5	Water	04/02/19 11:30	04/05/19 09:00	
180-88630-3	WGWA-6	Water	04/02/19 13:15	04/05/19 09:00	
180-88630-4	FB-1-4-2-19	Water	04/02/19 12:10	04/05/19 09:00	
180-88630-5	WGWA-18	Water	04/02/19 14:25	04/05/19 09:00	
180-88630-6	WGWC-9	Water	04/03/19 13:40	04/05/19 09:00	
180-88630-7	WGWC-8	Water	04/03/19 14:50	04/05/19 09:00	
180-88630-8	WGWC-17	Water	04/04/19 09:55	04/05/19 09:00	
180-88630-9	EB-2-4-4-19	Water	04/04/19 09:40	04/05/19 09:00	
180-88630-10	WGWC-10	Water	04/04/19 11:35	04/05/19 09:00	
180-88630-11	DUP-2-4-3-19	Water	04/04/19 00:00	04/05/19 09:00	
180-88630-12	DUP-1	Water	04/04/19 00:00	04/05/19 09:00	
180-88630-13	WGWA-2	Water	04/01/19 14:50	04/05/19 09:00	
180-88630-14	WGWA-7	Water	04/02/19 11:15	04/05/19 09:00	
180-88630-15	WGWA-4	Water	04/02/19 12:45	04/05/19 09:00	
180-88630-16	WGWA-3	Water	04/02/19 13:50	04/05/19 09:00	
180-88630-17	WGWC-19	Water	04/02/19 14:55	04/05/19 09:00	
180-88630-18	WGWC-12	Water	04/03/19 11:05	04/05/19 09:00	
180-88630-19	WGWC-11	Water	04/03/19 12:20	04/05/19 09:00	
180-88630-20	WGWC-13	Water	04/03/19 13:20	04/05/19 09:00	
180-88630-21	WGWC-14A	Water	04/03/19 14:35	04/05/19 09:00	
180-88630-23	WGWC-15	Water	04/04/19 10:35	04/05/19 09:00	
180-88630-24	WGWC-16	Water	04/04/19 11:40	04/05/19 09:00	
180-88630-25	FB-2-4-4-19	Water	04/04/19 12:00	04/05/19 09:00	

Method Summary

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

Job ID: 180-88630-2
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWA-1

Lab Sample ID: 180-88630-1

Date Collected: 04/01/19 13:45

Matrix: Water

Date Received: 04/05/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.49 mL	1.0 g	424955	04/22/19 12:54	JLC	TAL SL
Total/NA	Analysis	9315		1			429039	05/18/19 19:03	CDR	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Prep	PrecSep_0			1000.49 mL	1.0 g	424962	04/22/19 14:21	JLC	TAL SL
Total/NA	Analysis	9320		1			427716	05/08/19 15:54	CDR	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 180-88630-2

Date Collected: 04/02/19 11:30

Matrix: Water

Date Received: 04/05/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.34 mL	1.0 g	424955	04/22/19 12:54	JLC	TAL SL
Total/NA	Analysis	9315		1			429039	05/18/19 19:03	CDR	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Prep	PrecSep_0			1000.34 mL	1.0 g	424962	04/22/19 14:21	JLC	TAL SL
Total/NA	Analysis	9320		1			427716	05/08/19 15:54	CDR	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-6

Lab Sample ID: 180-88630-3

Date Collected: 04/02/19 13:15

Matrix: Water

Date Received: 04/05/19 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			1000.43 mL	1.0 g	424955	04/22/19 12:54	JLC	TAL SL
Total/NA	Analysis	9315		1			429039	05/18/19 19:03	CDR	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Prep	PrecSep_0			1000.43 mL	1.0 g	424962	04/22/19 14:21	JLC	TAL SL
Total/NA	Analysis	9320		1			427716	05/08/19 15:55	CDR	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-1-4-2-19

Lab Sample ID: 180-88630-4

Date Collected: 04/02/19 12:10

Matrix: Water

Date Received: 04/05/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.30 mL	1.0 g	424955	04/22/19 12:54	JLC	TAL SL
Total/NA	Analysis	9315		1			429043	05/18/19 19:04	CDR	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: FB-1-4-2-19

Lab Sample ID: 180-88630-4

Date Collected: 04/02/19 12:10

Matrix: Water

Date Received: 04/05/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.30 mL	1.0 g	424962	04/22/19 14:21	JLC	TAL SL
Total/NA	Analysis	9320		1			427716	05/08/19 15:55	CDR	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-18

Lab Sample ID: 180-88630-5

Date Collected: 04/02/19 14:25

Matrix: Water

Date Received: 04/05/19 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			1000.14 mL	1.0 g	424955	04/22/19 12:54	JLC	TAL SL
Total/NA	Analysis	9315		1			429043	05/18/19 19:04	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.14 mL	1.0 g	424962	04/22/19 14:21	JLC	TAL SL
Total/NA	Analysis	9320		1			427716	05/08/19 15:55	CDR	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-9

Lab Sample ID: 180-88630-6

Date Collected: 04/03/19 13:40

Matrix: Water

Date Received: 04/05/19 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			999.86 mL	1.0 g	424955	04/22/19 12:54	JLC	TAL SL
Total/NA	Analysis	9315		1			429043	05/18/19 19:04	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.86 mL	1.0 g	424962	04/22/19 14:21	JLC	TAL SL
Total/NA	Analysis	9320		1			427716	05/08/19 15:55	CDR	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8

Lab Sample ID: 180-88630-7

Date Collected: 04/03/19 14:50

Matrix: Water

Date Received: 04/05/19 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			999.92 mL	1.0 g	424955	04/22/19 12:54	JLC	TAL SL
Total/NA	Analysis	9315		1			429043	05/18/19 19:04	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.92 mL	1.0 g	424962	04/22/19 14:21	JLC	TAL SL
Total/NA	Analysis	9320		1			427716	05/08/19 15:55	CDR	TAL SL
Instrument ID: GFPCORANGE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWC-8

Lab Sample ID: 180-88630-7

Date Collected: 04/03/19 14:50

Matrix: Water

Date Received: 04/05/19 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			430219	05/30/19 08:50	SMP	TAL SL

Client Sample ID: WGWC-17

Lab Sample ID: 180-88630-8

Date Collected: 04/04/19 09:55

Matrix: Water

Date Received: 04/05/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.07 mL	1.0 g	424955	04/22/19 12:54	JLC	TAL SL
Total/NA	Analysis	9315		1			429043	05/18/19 19:04	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.07 mL	1.0 g	424962	04/22/19 14:21	JLC	TAL SL
Total/NA	Analysis	9320		1			427716	05/08/19 15:55	CDR	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-2-4-4-19

Lab Sample ID: 180-88630-9

Date Collected: 04/04/19 09:40

Matrix: Water

Date Received: 04/05/19 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			999.96 mL	1.0 g	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429043	05/18/19 13:01	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.96 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			427893	05/10/19 09:02	BLH	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10

Lab Sample ID: 180-88630-10

Date Collected: 04/04/19 11:35

Matrix: Water

Date Received: 04/05/19 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			999.88 mL	1.0 g	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429043	05/18/19 13:01	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.88 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			428035	05/10/19 09:10	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: DUP-2-4-3-19

Lab Sample ID: 180-88630-11

Date Collected: 04/04/19 00:00

Matrix: Water

Date Received: 04/05/19 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			999.20 mL	1.0 g	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429043	05/18/19 13:02	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.20 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			428035	05/10/19 09:10	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-1

Lab Sample ID: 180-88630-12

Date Collected: 04/04/19 00:00

Matrix: Water

Date Received: 04/05/19 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			1000.35 mL	1.0 g	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429043	05/18/19 13:03	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.35 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			428035	05/10/19 09:10	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-2

Lab Sample ID: 180-88630-13

Date Collected: 04/01/19 14:50

Matrix: Water

Date Received: 04/05/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.07 mL	1.0 g	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429043	05/18/19 13:03	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.07 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			428035	05/10/19 09:10	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Lab Sample ID: 180-88630-14

Date Collected: 04/02/19 11:15

Matrix: Water

Date Received: 04/05/19 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			1000.44 mL	1.0 g	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429043	05/18/19 13:03	CDR	TAL SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWA-7

Lab Sample ID: 180-88630-14

Date Collected: 04/02/19 11:15

Matrix: Water

Date Received: 04/05/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.44 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			428035	05/10/19 09:10	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-4

Lab Sample ID: 180-88630-15

Date Collected: 04/02/19 12:45

Matrix: Water

Date Received: 04/05/19 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			999.80 mL	1.0 g	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429043	05/18/19 13:03	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.80 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			428035	05/10/19 09:10	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3

Lab Sample ID: 180-88630-16

Date Collected: 04/02/19 13:50

Matrix: Water

Date Received: 04/05/19 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	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429043	05/18/19 13:04	CDR	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.53 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			428035	05/10/19 09:10	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-19

Lab Sample ID: 180-88630-17

Date Collected: 04/02/19 14:55

Matrix: Water

Date Received: 04/05/19 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			1000.20 mL	1.0 g	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429045	05/18/19 13:06	CDR	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Prep	PrecSep_0			1000.20 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			428035	05/10/19 09:10	CDR	TAL SL
Instrument ID: GFPCPURPLE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWC-19

Lab Sample ID: 180-88630-17

Date Collected: 04/02/19 14:55

Matrix: Water

Date Received: 04/05/19 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			430219	05/30/19 08:50	SMP	TAL SL

Client Sample ID: WGWC-12

Lab Sample ID: 180-88630-18

Date Collected: 04/03/19 11:05

Matrix: Water

Date Received: 04/05/19 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			1000.86 mL	1.0 g	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429045	05/18/19 13:06	CDR	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Prep	PrecSep_0			1000.86 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			428035	05/10/19 09:10	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-11

Lab Sample ID: 180-88630-19

Date Collected: 04/03/19 12:20

Matrix: Water

Date Received: 04/05/19 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			999.81 mL	1.0 g	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429045	05/18/19 13:07	CDR	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Prep	PrecSep_0			999.81 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			428035	05/10/19 09:10	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-13

Lab Sample ID: 180-88630-20

Date Collected: 04/03/19 13:20

Matrix: Water

Date Received: 04/05/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.40 mL	1.0 g	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429045	05/18/19 13:07	CDR	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Prep	PrecSep_0			1000.40 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			428035	05/10/19 09:10	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWC-14A

Lab Sample ID: 180-88630-21

Date Collected: 04/03/19 14:35

Matrix: Water

Date Received: 04/05/19 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			1000.48 mL	1.0 g	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429045	05/18/19 13:08	CDR	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Prep	PrecSep_0			1000.48 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			428035	05/10/19 09:11	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Lab Sample ID: 180-88630-23

Date Collected: 04/04/19 10:35

Matrix: Water

Date Received: 04/05/19 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			1000.83 mL	1.0 g	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429045	05/18/19 13:08	CDR	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Prep	PrecSep_0			1000.83 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			428035	05/10/19 09:11	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-16

Lab Sample ID: 180-88630-24

Date Collected: 04/04/19 11:40

Matrix: Water

Date Received: 04/05/19 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			999.96 mL	1.0 g	424964	04/22/19 15:16	CLP	TAL SL
Total/NA	Analysis	9315		1			429045	05/18/19 13:09	CDR	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Prep	PrecSep_0			999.96 mL	1.0 g	424965	04/22/19 15:19	CLP	TAL SL
Total/NA	Analysis	9320		1			428035	05/10/19 09:11	CDR	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-2-4-4-19

Lab Sample ID: 180-88630-25

Date Collected: 04/04/19 12:00

Matrix: Water

Date Received: 04/05/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.17 mL	1.0 g	424966	04/22/19 15:20	CLP	TAL SL
Total/NA	Analysis	9315		1			429039	05/18/19 14:57	CDR	TAL SL
Instrument ID: GFPCORANGE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-88630-2
 SDG: Ash Pond

Client Sample ID: FB-2-4-4-19

Lab Sample ID: 180-88630-25

Date Collected: 04/04/19 12:00

Matrix: Water

Date Received: 04/05/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.17 mL	1.0 g	424967	04/22/19 15:23	CLP	TAL SL
Total/NA	Analysis	9320		1			427892	05/10/19 08:49	KLS	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			430219	05/30/19 08:50	SMP	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

CLP = Cassandra Park

JLC = Jessica Chapman

Batch Type: Analysis

BLH = Brandi Hayes

CDR = Conrad Reuscher

KLS = Kody Saulters

SMP = Siobhan Perry



Client Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWA-1

Lab Sample ID: 180-88630-1

Date Collected: 04/01/19 13:45

Matrix: Water

Date Received: 04/05/19 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	0.0598	U	0.0575	0.0578	1.00	0.0884	pCi/L	04/22/19 12:54	05/18/19 19:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					04/22/19 12:54	05/18/19 19:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.109	U	0.240	0.241	1.00	0.410	pCi/L	04/22/19 14:21	05/08/19 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					04/22/19 14:21	05/08/19 15:54	1
Y Carrier	90.5		40 - 110					04/22/19 14:21	05/08/19 15:54	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	0.169	U	0.247	0.248	5.00	0.410	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWA-5

Lab Sample ID: 180-88630-2

Date Collected: 04/02/19 11:30

Matrix: Water

Date Received: 04/05/19 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	0.0166	U	0.0456	0.0456	1.00	0.0865	pCi/L	04/22/19 12:54	05/18/19 19:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					04/22/19 12:54	05/18/19 19:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.238	U	0.259	0.260	1.00	0.425	pCi/L	04/22/19 14:21	05/08/19 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					04/22/19 14:21	05/08/19 15:54	1
Y Carrier	89.3		40 - 110					04/22/19 14:21	05/08/19 15:54	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWA-5

Lab Sample ID: 180-88630-2

Date Collected: 04/02/19 11:30

Matrix: Water

Date Received: 04/05/19 09:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.255	U	0.263	0.264	5.00	0.425	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWA-6

Lab Sample ID: 180-88630-3

Date Collected: 04/02/19 13:15

Matrix: Water

Date Received: 04/05/19 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	2.82		0.269	0.369	1.00	0.0728	pCi/L	04/22/19 12:54	05/18/19 19:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					04/22/19 12:54	05/18/19 19:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.99		0.484	0.667	1.00	0.362	pCi/L	04/22/19 14:21	05/08/19 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	108		40 - 110					04/22/19 14:21	05/08/19 15:55	1
Y Carrier	91.2		40 - 110					04/22/19 14:21	05/08/19 15:55	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	7.80		0.554	0.762	5.00	0.362	pCi/L		05/30/19 08:50	1

Client Sample ID: FB-1-4-2-19

Lab Sample ID: 180-88630-4

Date Collected: 04/02/19 12:10

Matrix: Water

Date Received: 04/05/19 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	0.0593	U	0.0564	0.0566	1.00	0.0864	pCi/L	04/22/19 12:54	05/18/19 19:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					04/22/19 12:54	05/18/19 19:04	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: FB-1-4-2-19

Lab Sample ID: 180-88630-4

Date Collected: 04/02/19 12:10

Matrix: Water

Date Received: 04/05/19 09:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.163	U	0.251	0.251	1.00	0.421	pCi/L	04/22/19 14:21	05/08/19 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					04/22/19 14:21	05/08/19 15:55	1
Y Carrier	86.7		40 - 110					04/22/19 14:21	05/08/19 15:55	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	0.222	U	0.257	0.257	5.00	0.421	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWA-18

Lab Sample ID: 180-88630-5

Date Collected: 04/02/19 14:25

Matrix: Water

Date Received: 04/05/19 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	0.0931		0.0635	0.0640	1.00	0.0848	pCi/L	04/22/19 12:54	05/18/19 19:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					04/22/19 12:54	05/18/19 19:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0495	U	0.211	0.211	1.00	0.387	pCi/L	04/22/19 14:21	05/08/19 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					04/22/19 14:21	05/08/19 15:55	1
Y Carrier	88.6		40 - 110					04/22/19 14:21	05/08/19 15:55	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	0.0436	U	0.220	0.220	5.00	0.387	pCi/L		05/30/19 08:50	1

Client Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWC-9

Lab Sample ID: 180-88630-6

Date Collected: 04/03/19 13:40

Matrix: Water

Date Received: 04/05/19 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	0.0402	U	0.0499	0.0500	1.00	0.0820	pCi/L	04/22/19 12:54	05/18/19 19:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					04/22/19 12:54	05/18/19 19:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0219	U	0.196	0.196	1.00	0.348	pCi/L	04/22/19 14:21	05/08/19 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					04/22/19 14:21	05/08/19 15:55	1
Y Carrier	92.3		40 - 110					04/22/19 14:21	05/08/19 15:55	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	0.0621	U	0.202	0.202	5.00	0.348	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWC-8

Lab Sample ID: 180-88630-7

Date Collected: 04/03/19 14:50

Matrix: Water

Date Received: 04/05/19 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	0.423		0.108	0.114	1.00	0.0669	pCi/L	04/22/19 12:54	05/18/19 19:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					04/22/19 12:54	05/18/19 19:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.12		0.276	0.295	1.00	0.324	pCi/L	04/22/19 14:21	05/08/19 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					04/22/19 14:21	05/08/19 15:55	1
Y Carrier	92.0		40 - 110					04/22/19 14:21	05/08/19 15:55	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWC-8

Lab Sample ID: 180-88630-7

Date Collected: 04/03/19 14:50

Matrix: Water

Date Received: 04/05/19 09:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.55		0.296	0.316	5.00	0.324	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWC-17

Lab Sample ID: 180-88630-8

Date Collected: 04/04/19 09:55

Matrix: Water

Date Received: 04/05/19 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	0.0379	U	0.0421	0.0423	1.00	0.0661	pCi/L	04/22/19 12:54	05/18/19 19:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					04/22/19 12:54	05/18/19 19:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.348	U	0.239	0.241	1.00	0.372	pCi/L	04/22/19 14:21	05/08/19 15:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					04/22/19 14:21	05/08/19 15:55	1
Y Carrier	89.3		40 - 110					04/22/19 14:21	05/08/19 15:55	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	0.386		0.243	0.245	5.00	0.372	pCi/L		05/30/19 08:50	1

Client Sample ID: EB-2-4-4-19

Lab Sample ID: 180-88630-9

Date Collected: 04/04/19 09:40

Matrix: Water

Date Received: 04/05/19 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	-0.0264	U	0.0387	0.0387	1.00	0.100	pCi/L	04/22/19 15:16	05/18/19 13:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					04/22/19 15:16	05/18/19 13:01	1

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Client Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: EB-2-4-4-19

Lab Sample ID: 180-88630-9

Date Collected: 04/04/19 09:40

Matrix: Water

Date Received: 04/05/19 09:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.258	U	0.227	0.229	1.00	0.364	pCi/L	04/22/19 15:19	05/10/19 09:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					04/22/19 15:19	05/10/19 09:02	1
Y Carrier	92.7		40 - 110					04/22/19 15:19	05/10/19 09:02	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.232	U	0.230	0.232	5.00	0.364	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWC-10

Lab Sample ID: 180-88630-10

Date Collected: 04/04/19 11:35

Matrix: Water

Date Received: 04/05/19 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	0.0890	U	0.0677	0.0681	1.00	0.0947	pCi/L	04/22/19 15:16	05/18/19 13:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					04/22/19 15:16	05/18/19 13:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.144	U	0.239	0.239	1.00	0.403	pCi/L	04/22/19 15:19	05/10/19 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					04/22/19 15:19	05/10/19 09:10	1
Y Carrier	90.5		40 - 110					04/22/19 15:19	05/10/19 09:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.233	U	0.248	0.249	5.00	0.403	pCi/L		05/30/19 08:50	1

Client Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: DUP-2-4-3-19

Lab Sample ID: 180-88630-11

Date Collected: 04/04/19 00:00

Matrix: Water

Date Received: 04/05/19 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	0.352		0.113	0.117	1.00	0.0962	pCi/L	04/22/19 15:16	05/18/19 13:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					04/22/19 15:16	05/18/19 13:02	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.80		0.353	0.390	1.00	0.383	pCi/L	04/22/19 15:19	05/10/19 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					04/22/19 15:19	05/10/19 09:10	1
Y Carrier	87.9		40 - 110					04/22/19 15:19	05/10/19 09:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.16		0.371	0.407	5.00	0.383	pCi/L		05/30/19 08:50	1

Client Sample ID: DUP-1

Lab Sample ID: 180-88630-12

Date Collected: 04/04/19 00:00

Matrix: Water

Date Received: 04/05/19 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	0.0680	U	0.0556	0.0560	1.00	0.0767	pCi/L	04/22/19 15:16	05/18/19 13:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					04/22/19 15:16	05/18/19 13:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.543		0.249	0.254	1.00	0.359	pCi/L	04/22/19 15:19	05/10/19 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					04/22/19 15:19	05/10/19 09:10	1
Y Carrier	89.0		40 - 110					04/22/19 15:19	05/10/19 09:10	1

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Client Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: DUP-1
Date Collected: 04/04/19 00:00
Date Received: 04/05/19 09:00

Lab Sample ID: 180-88630-12
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.611		0.255	0.260	5.00	0.359	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWA-2
Date Collected: 04/01/19 14:50
Date Received: 04/05/19 09:00

Lab Sample ID: 180-88630-13
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0293	U	0.0440	0.0440	1.00	0.0759	pCi/L	04/22/19 15:16	05/18/19 13:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					04/22/19 15:16	05/18/19 13:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0314	U	0.203	0.203	1.00	0.371	pCi/L	04/22/19 15:19	05/10/19 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					04/22/19 15:19	05/10/19 09:10	1
Y Carrier	86.7		40 - 110					04/22/19 15:19	05/10/19 09:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.00216	U	0.208	0.208	5.00	0.371	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWA-7
Date Collected: 04/02/19 11:15
Date Received: 04/05/19 09:00

Lab Sample ID: 180-88630-14
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0454	U	0.0495	0.0496	1.00	0.0774	pCi/L	04/22/19 15:16	05/18/19 13:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					04/22/19 15:16	05/18/19 13:03	1

Client Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWA-7

Lab Sample ID: 180-88630-14

Date Collected: 04/02/19 11:15

Matrix: Water

Date Received: 04/05/19 09:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.137	U	0.205	0.205	1.00	0.345	pCi/L	04/22/19 15:19	05/10/19 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					04/22/19 15:19	05/10/19 09:10	1
Y Carrier	89.3		40 - 110					04/22/19 15:19	05/10/19 09:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.182	U	0.211	0.211	5.00	0.345	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWA-4

Lab Sample ID: 180-88630-15

Date Collected: 04/02/19 12:45

Matrix: Water

Date Received: 04/05/19 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	0.324		0.114	0.118	1.00	0.0977	pCi/L	04/22/19 15:16	05/18/19 13:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					04/22/19 15:16	05/18/19 13:03	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.278	U	0.209	0.210	1.00	0.326	pCi/L	04/22/19 15:19	05/10/19 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					04/22/19 15:19	05/10/19 09:10	1
Y Carrier	91.6		40 - 110					04/22/19 15:19	05/10/19 09:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.602		0.238	0.241	5.00	0.326	pCi/L		05/30/19 08:50	1

Client Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWA-3

Lab Sample ID: 180-88630-16

Date Collected: 04/02/19 13:50

Matrix: Water

Date Received: 04/05/19 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	0.0392	U	0.0494	0.0495	1.00	0.0811	pCi/L	04/22/19 15:16	05/18/19 13:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					04/22/19 15:16	05/18/19 13:04	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.322	U	0.219	0.221	1.00	0.338	pCi/L	04/22/19 15:19	05/10/19 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					04/22/19 15:19	05/10/19 09:10	1
Y Carrier	90.1		40 - 110					04/22/19 15:19	05/10/19 09:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.361		0.225	0.226	5.00	0.338	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWC-19

Lab Sample ID: 180-88630-17

Date Collected: 04/02/19 14:55

Matrix: Water

Date Received: 04/05/19 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	0.0576	U	0.0588	0.0591	1.00	0.0907	pCi/L	04/22/19 15:16	05/18/19 13:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		40 - 110					04/22/19 15:16	05/18/19 13:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.151	U	0.218	0.219	1.00	0.365	pCi/L	04/22/19 15:19	05/10/19 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		40 - 110					04/22/19 15:19	05/10/19 09:10	1
Y Carrier	88.6		40 - 110					04/22/19 15:19	05/10/19 09:10	1

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Client Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWC-19

Date Collected: 04/02/19 14:55

Date Received: 04/05/19 09:00

Lab Sample ID: 180-88630-17

Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.209	U	0.226	0.227	5.00	0.365	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWC-12

Date Collected: 04/03/19 11:05

Date Received: 04/05/19 09:00

Lab Sample ID: 180-88630-18

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	0.102	U	0.0827	0.0832	1.00	0.123	pCi/L	04/22/19 15:16	05/18/19 13:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					04/22/19 15:16	05/18/19 13:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.162	U	0.203	0.204	1.00	0.337	pCi/L	04/22/19 15:19	05/10/19 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					04/22/19 15:19	05/10/19 09:10	1
Y Carrier	92.3		40 - 110					04/22/19 15:19	05/10/19 09:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.264	U	0.219	0.220	5.00	0.337	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWC-11

Date Collected: 04/03/19 12:20

Date Received: 04/05/19 09:00

Lab Sample ID: 180-88630-19

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	0.0623	U	0.0651	0.0653	1.00	0.102	pCi/L	04/22/19 15:16	05/18/19 13:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					04/22/19 15:16	05/18/19 13:07	1

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Client Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWC-11

Lab Sample ID: 180-88630-19

Date Collected: 04/03/19 12:20

Matrix: Water

Date Received: 04/05/19 09:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.125	U	0.206	0.207	1.00	0.349	pCi/L	04/22/19 15:19	05/10/19 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					04/22/19 15:19	05/10/19 09:10	1
Y Carrier	84.1		40 - 110					04/22/19 15:19	05/10/19 09:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.187	U	0.216	0.217	5.00	0.349	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWC-13

Lab Sample ID: 180-88630-20

Date Collected: 04/03/19 13:20

Matrix: Water

Date Received: 04/05/19 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	0.192		0.100	0.102	1.00	0.126	pCi/L	04/22/19 15:16	05/18/19 13:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					04/22/19 15:16	05/18/19 13:07	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.254	U	0.227	0.228	1.00	0.363	pCi/L	04/22/19 15:19	05/10/19 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					04/22/19 15:19	05/10/19 09:10	1
Y Carrier	89.0		40 - 110					04/22/19 15:19	05/10/19 09:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.446		0.248	0.250	5.00	0.363	pCi/L		05/30/19 08:50	1

Client Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWC-14A

Lab Sample ID: 180-88630-21

Date Collected: 04/03/19 14:35

Matrix: Water

Date Received: 04/05/19 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	0.323		0.111	0.114	1.00	0.0940	pCi/L	04/22/19 15:16	05/18/19 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					04/22/19 15:16	05/18/19 13:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.174	U	0.208	0.208	1.00	0.343	pCi/L	04/22/19 15:19	05/10/19 09:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					04/22/19 15:19	05/10/19 09:11	1
Y Carrier	92.7		40 - 110					04/22/19 15:19	05/10/19 09:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.497		0.236	0.237	5.00	0.343	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWC-15

Lab Sample ID: 180-88630-23

Date Collected: 04/04/19 10:35

Matrix: Water

Date Received: 04/05/19 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	0.0844	U	0.0689	0.0694	1.00	0.0993	pCi/L	04/22/19 15:16	05/18/19 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					04/22/19 15:16	05/18/19 13:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.334	U	0.237	0.239	1.00	0.366	pCi/L	04/22/19 15:19	05/10/19 09:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					04/22/19 15:19	05/10/19 09:11	1
Y Carrier	83.4		40 - 110					04/22/19 15:19	05/10/19 09:11	1

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Client Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Client Sample ID: WGWC-15

Date Collected: 04/04/19 10:35

Date Received: 04/05/19 09:00

Lab Sample ID: 180-88630-23

Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.418		0.247	0.249	5.00	0.366	pCi/L		05/30/19 08:50	1

Client Sample ID: WGWC-16

Date Collected: 04/04/19 11:40

Date Received: 04/05/19 09:00

Lab Sample ID: 180-88630-24

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	0.145		0.0935	0.0944	1.00	0.131	pCi/L	04/22/19 15:16	05/18/19 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110					04/22/19 15:16	05/18/19 13:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.487		0.237	0.241	1.00	0.342	pCi/L	04/22/19 15:19	05/10/19 09:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110					04/22/19 15:19	05/10/19 09:11	1
Y Carrier	87.1		40 - 110					04/22/19 15:19	05/10/19 09:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.632		0.255	0.259	5.00	0.342	pCi/L		05/30/19 08:50	1

Client Sample ID: FB-2-4-4-19

Date Collected: 04/04/19 12:00

Date Received: 04/05/19 09:00

Lab Sample ID: 180-88630-25

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	0.0551	U	0.0659	0.0661	1.00	0.108	pCi/L	04/22/19 15:20	05/18/19 14:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					04/22/19 15:20	05/18/19 14:57	1

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Client Sample Results

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

Job ID: 180-88630-2
 SDG: Ash Pond

Client Sample ID: FB-2-4-4-19

Lab Sample ID: 180-88630-25

Date Collected: 04/04/19 12:00

Matrix: Water

Date Received: 04/05/19 09:00

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.102	U	0.178	0.178	1.00	0.341	pCi/L	04/22/19 15:23	05/10/19 08:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					04/22/19 15:23	05/10/19 08:49	1
Y Carrier	88.2		40 - 110					04/22/19 15:23	05/10/19 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	-0.0472	U	0.190	0.190	5.00	0.341	pCi/L		05/30/19 08:50	1

QC Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-424955/23-A
Matrix: Water
Analysis Batch: 429045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 424955

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.007075	U	0.0557	0.0557	1.00	0.116	pCi/L	04/22/19 12:54	05/18/19 19:07	1
Carrier	MB MB		Limits			Prepared	Analyzed		Dil Fac	
Ba Carrier	%Yield	Qualifier	40 - 110			04/22/19 12:54	05/18/19 19:07		1	

Lab Sample ID: LCS 160-424955/1-A
Matrix: Water
Analysis Batch: 429039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 424955

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
				Uncert. (2σ+/-)						
Radium-226	11.4	9.416		0.984	1.00	0.0871	pCi/L	83	75 - 125	
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	110		40 - 110							

Lab Sample ID: MB 160-424964/23-A
Matrix: Water
Analysis Batch: 429045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 424964

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.04674	U	0.0739	0.0740	1.00	0.127	pCi/L	04/22/19 15:16	05/18/19 13:09	1
Carrier	MB MB		Limits			Prepared	Analyzed		Dil Fac	
Ba Carrier	%Yield	Qualifier	40 - 110			04/22/19 15:16	05/18/19 13:09		1	

Lab Sample ID: LCS 160-424964/1-A
Matrix: Water
Analysis Batch: 429039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 424964

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
				Uncert. (2σ+/-)						
Radium-226	11.4	9.432		1.00	1.00	0.0980	pCi/L	83	75 - 125	
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	101		40 - 110							

Lab Sample ID: LCSD 160-424964/2-A
Matrix: Water
Analysis Batch: 429039

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 424964

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER
				Uncert. (2σ+/-)							Limit
Radium-226	11.4	9.388		0.995	1.00	0.0915	pCi/L	83	75 - 125	0.02	1

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QC Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

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

Lab Sample ID: LCSD 160-424964/2-A
Matrix: Water
Analysis Batch: 429039

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 424964

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	96.0		40 - 110

Lab Sample ID: MB 160-424966/23-A
Matrix: Water
Analysis Batch: 429045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 424966

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02463	U	0.0725	0.0725	1.00	0.134	pCi/L	04/22/19 15:20	05/18/19 15:04	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					04/22/19 15:20	05/18/19 15:04	1

Lab Sample ID: LCS 160-424966/1-A
Matrix: Water
Analysis Batch: 429039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 424966

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	9.856		1.04	1.00	0.0996	pCi/L	87	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	98.6		40 - 110						

Lab Sample ID: LCSD 160-424966/2-A
Matrix: Water
Analysis Batch: 429039

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 424966

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-226	11.4	9.074		0.965	1.00	0.0936	pCi/L	80	75 - 125	0.39	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	98.0		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-424962/23-A
Matrix: Water
Analysis Batch: 427688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 424962

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1244	U	0.178	0.178	1.00	0.298	pCi/L	04/22/19 14:21	05/08/19 16:01	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	109		40 - 110					04/22/19 14:21	05/08/19 16:01	1

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QC Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

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

Lab Sample ID: MB 160-424962/23-A
Matrix: Water
Analysis Batch: 427688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 424962

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	95.3		40 - 110	04/22/19 14:21	05/08/19 16:01	1

Lab Sample ID: LCS 160-424962/1-A
Matrix: Water
Analysis Batch: 427716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 424962

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.23	7.421		0.884	1.00	0.348	pCi/L	80	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	110		40 - 110
Y Carrier	91.6		40 - 110

Lab Sample ID: MB 160-424965/23-A
Matrix: Water
Analysis Batch: 428035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 424965

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.02741	U	0.204	0.204	1.00	0.369	pCi/L	04/22/19 15:19	05/10/19 09:11	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110	04/22/19 15:19	05/10/19 09:11	1
Y Carrier	87.1		40 - 110	04/22/19 15:19	05/10/19 09:11	1

Lab Sample ID: LCS 160-424965/1-A
Matrix: Water
Analysis Batch: 427893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 424965

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.22	9.433		1.08	1.00	0.401	pCi/L	102	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	101		40 - 110
Y Carrier	92.7		40 - 110

Lab Sample ID: LCSD 160-424965/2-A
Matrix: Water
Analysis Batch: 427893

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 424965

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	9.22	9.863		1.14	1.00	0.405	pCi/L	107	75 - 125	0.19	1

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QC Sample Results

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

Job ID: 180-88630-2
SDG: Ash Pond

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

Lab Sample ID: LCSD 160-424965/2-A
Matrix: Water
Analysis Batch: 427893

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 424965

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	96.0		40 - 110
Y Carrier	86.7		40 - 110

Lab Sample ID: MB 160-424967/23-A
Matrix: Water
Analysis Batch: 427870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 424967

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.08420	U	0.206	0.206	1.00	0.355	pCi/L	04/22/19 15:23	05/10/19 08:55	1

Carrier	MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	95.5		40 - 110	04/22/19 15:23	05/10/19 08:55	1
Y Carrier	87.5		40 - 110	04/22/19 15:23	05/10/19 08:55	1

Lab Sample ID: LCS 160-424967/1-A
Matrix: Water
Analysis Batch: 427892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 424967

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	98.6		40 - 110
Y Carrier	88.6		40 - 110

Lab Sample ID: LCSD 160-424967/2-A
Matrix: Water
Analysis Batch: 427892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 424967

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	98.0		40 - 110
Y Carrier	88.2		40 - 110

QC Association Summary

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

Job ID: 180-88630-2
SDG: Ash Pond

Rad

Prep Batch: 424955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-1	WGWA-1	Total/NA	Water	PrecSep-21	
180-88630-2	WGWA-5	Total/NA	Water	PrecSep-21	
180-88630-3	WGWA-6	Total/NA	Water	PrecSep-21	
180-88630-4	FB-1-4-2-19	Total/NA	Water	PrecSep-21	
180-88630-5	WGWA-18	Total/NA	Water	PrecSep-21	
180-88630-6	WGWC-9	Total/NA	Water	PrecSep-21	
180-88630-7	WGWC-8	Total/NA	Water	PrecSep-21	
180-88630-8	WGWC-17	Total/NA	Water	PrecSep-21	
MB 160-424955/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-424955/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 424962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-1	WGWA-1	Total/NA	Water	PrecSep_0	
180-88630-2	WGWA-5	Total/NA	Water	PrecSep_0	
180-88630-3	WGWA-6	Total/NA	Water	PrecSep_0	
180-88630-4	FB-1-4-2-19	Total/NA	Water	PrecSep_0	
180-88630-5	WGWA-18	Total/NA	Water	PrecSep_0	
180-88630-6	WGWC-9	Total/NA	Water	PrecSep_0	
180-88630-7	WGWC-8	Total/NA	Water	PrecSep_0	
180-88630-8	WGWC-17	Total/NA	Water	PrecSep_0	
MB 160-424962/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-424962/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 424964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-9	EB-2-4-4-19	Total/NA	Water	PrecSep-21	
180-88630-10	WGWC-10	Total/NA	Water	PrecSep-21	
180-88630-11	DUP-2-4-3-19	Total/NA	Water	PrecSep-21	
180-88630-12	DUP-1	Total/NA	Water	PrecSep-21	
180-88630-13	WGWA-2	Total/NA	Water	PrecSep-21	
180-88630-14	WGWA-7	Total/NA	Water	PrecSep-21	
180-88630-15	WGWA-4	Total/NA	Water	PrecSep-21	
180-88630-16	WGWA-3	Total/NA	Water	PrecSep-21	
180-88630-17	WGWC-19	Total/NA	Water	PrecSep-21	
180-88630-18	WGWC-12	Total/NA	Water	PrecSep-21	
180-88630-19	WGWC-11	Total/NA	Water	PrecSep-21	
180-88630-20	WGWC-13	Total/NA	Water	PrecSep-21	
180-88630-21	WGWC-14A	Total/NA	Water	PrecSep-21	
180-88630-23	WGWC-15	Total/NA	Water	PrecSep-21	
180-88630-24	WGWC-16	Total/NA	Water	PrecSep-21	
MB 160-424964/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-424964/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-424964/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 424965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-9	EB-2-4-4-19	Total/NA	Water	PrecSep_0	
180-88630-10	WGWC-10	Total/NA	Water	PrecSep_0	
180-88630-11	DUP-2-4-3-19	Total/NA	Water	PrecSep_0	
180-88630-12	DUP-1	Total/NA	Water	PrecSep_0	

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QC Association Summary

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

Job ID: 180-88630-2
 SDG: Ash Pond

Rad (Continued)

Prep Batch: 424965 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-13	WGWA-2	Total/NA	Water	PrecSep_0	
180-88630-14	WGWA-7	Total/NA	Water	PrecSep_0	
180-88630-15	WGWA-4	Total/NA	Water	PrecSep_0	
180-88630-16	WGWA-3	Total/NA	Water	PrecSep_0	
180-88630-17	WGWC-19	Total/NA	Water	PrecSep_0	
180-88630-18	WGWC-12	Total/NA	Water	PrecSep_0	
180-88630-19	WGWC-11	Total/NA	Water	PrecSep_0	
180-88630-20	WGWC-13	Total/NA	Water	PrecSep_0	
180-88630-21	WGWC-14A	Total/NA	Water	PrecSep_0	
180-88630-23	WGWC-15	Total/NA	Water	PrecSep_0	
180-88630-24	WGWC-16	Total/NA	Water	PrecSep_0	
MB 160-424965/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-424965/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-424965/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 424966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-25	FB-2-4-4-19	Total/NA	Water	PrecSep-21	
MB 160-424966/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-424966/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-424966/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 424967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88630-25	FB-2-4-4-19	Total/NA	Water	PrecSep_0	
MB 160-424967/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-424967/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-424967/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Client Information
 Client Contact: Jordan Benstorf
 Phone: 770-594-5998
 Company: Southern Company
 Address: PO BOX 2641 GSC8
 City: Birmingham
 State, Zip: AL, 35291
 Email: JAbraham@southernco.com
 Project Name: CCR - Plant Wansley - Ash Pond
 Site: Georgia

Lab PM: Veronica Bertel
E-Mail: Veronica.Bertel@testamerica.com

Carrier Tracking No(s):

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Metals App. III (EPA 6020/470)	C, F, SO ₄ & TDS (EPA 300.0 & SM 2540C)	Detected App IV Metals (See list below)	Radium 226 & 228 (SW-846 9315/9320)	Total Number of Containers	Spec:
wGwA-1	4-1-19	1345	G	w	W	W	W	W	W	W	3	APP III
wGwA-5	4-2-19	1130	G	w	W	W	W	W	W	W	3	
wGwA-6	4-2-19	1315	G	w	W	W	W	W	W	W	3	
FB-1-4-2-19	4-2-19	1210	G	w	W	W	W	W	W	W	3	
wGwA-18	4-2-19	1425	G	w	W	W	W	W	W	W	3	
wGwC-9	4-3-19	1340	G	w	W	W	W	W	W	W	3	
wGwC-8	4-3-19	1450	G	w	W	W	W	W	W	W	3	
wGwC-17	4-4-19	0955	G	w	W	W	W	W	W	W	3	
FB-2-4-4-19	4-4-19	0940	G	w	W	W	W	W	W	W	3	
wGwC-10	4-4-19	1135	G	w	W	W	W	W	W	W	3	
Dyp-2-4-3-19			G	w	W	W	W	W	W	W	3	

Preservation Codes:
 M - Hexane
 N - Nore
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2SO4
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 X - EDTA
 Y - EDA
 Z - other (specify)

Other:

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: 4/4/19 1435 Company: ACC
Relinquished by: _____ Date/Time: 4-4-19 1513 Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal No.: _____
 Custody Seals Intact: Yes No

Detected APP II: Metals: Arsenic Barium Beryllium Cadmium Chromium Cobalt Lead Lithium Molybdenum Selenium Thallium; Radium Fluoride

180-88630-01 Chain of Custody



Chain of Custody Record

681-Atlanta

Client Information		Lab P#:	Carrier Tracking No(s):	
Client Contact: Joji Abraham	Sampler: O. FUQUEA	Lab P#:	Veronica Bertot	
Company: Southern Company	Phone: (770) 598-5998	E-Mail:	Veronica.Bertot@testamerica.com	
Address: PO BOX 2641 GSC8	Due Date Requested:	Analysis Requested		
City: Birmingham	TAT Requested (days):	Metals App. III (EPA 6020/470)		
State, Zip: AL, 35291	PO #:	C.I., F., SO ₄ & TDS		
Phone:	SCS10347656	Detected App IV Metals		
Email: JAbraham@southernco.com	WO #:	Radium 226 & 228		
Project Name: CCR - Plant Wansley - Ash Pond	Project #: 40007709	(See list below)		
Site: Georgia	SSOW#:	SW-846 9315/9320		
Sample Identification		Total Number of Containers		
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code
DUP-1			G	W
WGWA-2	4-1-19	1450	G	W
WGWA-7	4-2-19	1115	G	W
WGWA-4	4-2-19	1245	G	W
WGWA-3	4-2-19	1350	G	W
WGWC-19	4-2-19	1455	G	W
WGWC-12	4-3-19	1100 ^{AM}	G	W
WGWC-11	4-3-19	1220	G	W
WGWC-13	4-3-19	1320	G	W
WGWC-14A	4-3-19	1435	G	W
EB-1-4-3-19	4-3-19	0930	G	W
Possible Hazard Identification		Special 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:		Method of Shipment:		
Relinquished by: <i>[Signature]</i>		Date/Time: 4-4-19 1935		
Relinquished by: <i>[Signature]</i>		Date/Time: 4-4-19 1513		
Relinquished by: <i>[Signature]</i>		Date/Time: 4-5-19 900		
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:		



Client Information Client Contact: Joju Abraham Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: (770) 544-5998 Lab PM: Veronica Burt E-Mail: Veronica.Burt@testamerica.com		Sampler: O. Fuqua Phone: (770) 544-5998 Lab PM: Veronica Burt E-Mail: Veronica.Burt@testamerica.com		Carmer Tracking No(s): Job #:		COC No: Page: Job #:			
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 40007709 SSON#:		Analysis Requested Detected App IV Metals (See list below) (SW-846 9316/9320) Radium 226 & 228 (EPA 300.0 & SM 2540C) Cr, F, SO ₄ & TDS (EPA 6020/7470)		Total Number of Containers 3 3 3		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO ₄ F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EPA Other: M - Hexane N - None O - ASNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)		Special Instructions/Note: APP III 180-88630-03 Chain of Custody	
Sample Identification WGWC-15 WGWC-16 FB-2-4-4-19		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Metals App. III (EPA 6020/7470) Cr, F, SO ₄ & TDS (EPA 300.0 & SM 2540C) Detected App IV Metals (See list below) (SW-846 9316/9320)		Sample Date 4-4-19 4-4-19 4-4-19		Sample Type (C=comp, G=grab) G G G		Preservation Code: W W W	
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)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date: 4-4-19 Date/Time: 1513 Company: ACC		Received by: Debra Watson Date/Time: 4-5-19 Company: APiA		Relinquished by:		Date/Time: 4-4-19 Date/Time: 1433 Company:	
Relinquished by:		Date: 4-4-19 Date/Time: 1513 Company:		Received by:		Date/Time: 4-5-19 Date/Time: 900 Company:		Cooler Temperature(s) °C and Other Remarks:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Method of Shipment:		Date/Time:		Company:	



ENVIRONMENTAL TESTING

SHIP DATE: 04APR. 1991
ACTWGT: 59.60 LB
CAD: 8591116/CAFE32

BILL RECIPIENT

(678) 966-9981
AMERICA, ATLANTA
OUGH DRIVE
SS, GA 30093
ED STATES US

SAMPLE RECEIVING
TA PITTSBURGH
301 ALPHA DRIVE
RILC PARK
PITTSBURGH PA 15238

(412) 963-7058

Uncofected temp 24 °C

Thermometer ID 10

CF 0 Initials B

PITTSBURGH 001 effective 1/8/88

4 of 5
651 008
651 0081



180-88630 Wwaybill

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

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NA AGCA

MPS# 4651 0081 1103
3 of 5
FRI - 05 A
STANDARD OV
4651 0081 1088
0201



Uncorrected temp
Thermometer ID
CF 0
Initials JS
14
c

EFF: SOUTHERN CO
(412) 968-7058
PITTSBURGH PA 15238

SAMPLE RECEIVING
7A PITTSBURGH
301 ALPHA DRIVE
RIDG PARK

ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
EUROFINSTESTAMERICA, ATLANTA
5701 MCDONOUGH DRIVE
MCDOROSS, GA 30093
UNITED STATES US

SHIP DATE: 04APR13
ACTWGT: 59.60 LB
CAD: 859116/CAFE0211

BILL RECIPIENT

THE LEADER IN ENVIRONMF

Testam

16:00
17:03
A
NG

RT 97
Z1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN: D. TULA (678) 966-9991
GEORGE W. OR
EUROFINS TESTAMERICA, ATLANTA
6500 NICHOLS DRIVE
SA 30093
UNITED STATES US

SHIP DATE: 04APR18
ACTING: 59.60
CAD: 859116/CAPE

BILL RECIPIENT

SAMPLE RECEIVING
1A PITTSBURGH
ALPHA DRIVE
PARK

PITTSBURGH PA 15238
REF SOUTHERN CO



MPS# 4651 0081 1099
Mstr# 4651 0081 1088

NA AGCA

FRI - 05 APR 3:00P
STANDARD OVERNIGHT

15238

PA-US

Uncorrected temp 1.8 °C
Thermometer ID 10
CF 0 Initials TJ

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

692589

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

THE LEADER IN ENVIRONMENTAL TESTING

BILL RECIPIENT
SHIP ORIGIN: 80 344P19
RCNLTG: 89 344P19
GPO: 893116/0432211

61LPH11
966-993

ORIGIN: 10:11:4
GEORGE TYLER
8500 INDEPENDENCE DR
PITTSBURGH PA 15204
NORCROSS - GA 30093
DIRTID: 31-1-ES US
TO: SAMPLE RECEIVING
301 ALPHA DRIVE
TA PITTSBURGH
RIDC PARK
PITTSBURGH PA 15138

REF: SOUTHERN CO
412 988-7068



FRI - 05 APR 3:00P
STANDARD OVERNIGHT

PA-US
15238
PIT



1 of 5
TR# 4651 0081 1088
NA AGCA

Uncorrected temp
Thermometer ID
Initials JS

1.2
°C

CF
Thermometer ID
Initials

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

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Environment Testing
TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab P/N:	Carrier Tracking No(s):	COC No:
Client Contact:	Phone:	Bortol, Veronica	State of Origin:	180-359809_1
Shipping/Receiving	E-Mail:	veronica.bortol@testamericainc.com	Georgia	Page: 1 of 3
Company:	TestAmerica Laboratories, Inc.	Accreditations Required (See note):		Page 1 of 3
Address:	13715 Rider Trail North,			Job #: 180-88630-2
City:	Earth City			
State, Zip:	MO, 63045			
Phone:	314-298-8566(Tel) 314-298-9757(Fax)			
Email:				
Project Name:	CCR - Plant Wansley			
Site:	CCR - Plant Wansley Lanfill			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Soil, O=Organic, A=Air)	Field Filtered Sample (Yes or No)			Perform MS/MSD (Yes or No)			Total Number of containers	Special Instructions/Note:
					9315_Ra228/PrecSep_21 Standard Target List	9320_Ra228/PrecSep_0 Standard Target List	Ra226Ra228_GFPC					
WGWA-1 (180-88630-1)	4/1/19	13:45		Water	X	X	X				1	
WGWA-5 (180-88630-2)	4/2/19	11:30		Water	X	X	X				1	
WGWA-6 (180-88630-3)	4/2/19	13:15		Water	X	X	X				1	
FB-1-4-2-19 (180-88630-4)	4/2/19	12:10		Water	X	X	X				1	
WGWA-18 (180-88630-5)	4/2/19	14:25		Water	X	X	X				1	
WGWC-9 (180-88630-6)	4/3/19	13:40		Water	X	X	X				1	
WGWC-8 (180-88630-7)	4/3/19	14:50		Water	X	X	X				1	
WGWC-17 (180-88630-8)	4/4/19	09:55		Water	X	X	X				1	
EB-2-4-19 (180-88630-9)	4/4/19	09:40		Water	X	X	X				1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. 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 analyst/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody atesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

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

Primary Deliverable Rank: 2

Special Instructions/QC Requirements: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 4/11/19	Time: 12:00	Company: <i>MAST</i>
Relinquished by: <i>[Signature]</i>	Date/Time: _____	Time: _____	Company: _____
Relinquished by: _____	Date/Time: _____	Time: _____	Company: _____
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 (Sub Contract Lab)		Lab PM: Bortol, Veronica		Carrier Tracking No(s): 180-359809.2								
Client Contact: Shipping/Receiving		E-Mail: veronica.bortol@testamericainc.com		Page: Page 2 of 3								
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 180-88630-2								
Address: 13715 Rider Trail North,		Due Date Requested: 4/17/2019		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 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 #:		Other:								
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:										
Email:		Project #:										
CCR - Plant Wansley		18019922										
Site: CCR - Plant Wansley Lanfill		SSOW#:										
Sample Identification - Client ID (Lab ID)												
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waterfill, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PreSep_21 Standard Target List	9320_Ra228/PreSep_0 Standard Target List	Ra226Ra228_GFPC	Analysis Requested	Total Number of Containers	Special Instructions/Note:
WGWC-10 (180-88630-10)	4/4/19	11:35 Eastern		Water	X	X	X	X	X		1	
DUP-2-4-3-19 (180-88630-11)	4/4/19	Eastern		Water	X	X	X	X	X		1	
DUP-1 (180-88630-12)	4/4/19	Eastern		Water	X	X	X	X	X		1	
WGWA-2 (180-88630-13)	4/1/19	14:50 Eastern		Water	X	X	X	X	X		1	
WGWA-7 (180-88630-14)	4/2/19	11:15 Eastern		Water	X	X	X	X	X		1	
WGWA-4 (180-88630-15)	4/2/19	12:45 Eastern		Water	X	X	X	X	X		1	
WGWA-3 (180-88630-16)	4/2/19	13:50 Eastern		Water	X	X	X	X	X		1	
WGWC-19 (180-88630-17)	4/2/19	14:55 Eastern		Water	X	X	X	X	X		1	
WGWC-12 (180-88630-18)	4/3/19	11:05 Eastern		Water	X	X	X	X	X		1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

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: _____ Date/Time: 4/11/19 17:00 Company: PAP-INT
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Received by: *Michael J. Flynn* Date/Time: 4-16-19 09:10 Company: *DA SO*
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:

Client Information (Sub Contract Lab)		Lab P.M.: Bortot, Veronica	Carrier Tracking No(s): 180-359809.3
Client Contact: Shipping/Receiving		E-Mail: veronica.bortot@testamericainc.com	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):	Job #: 180-88630-2
Address: 13715 Rider Trail North, Earth City, MO, 63045		Analysis Requested	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		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:	
Email:		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)	
Project Name: CCR - Plant Wansley		Total Number of containers: 1	
Site: CCR - Plant Wansley Lanfill		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		180-88630-02 Chain of Custody	
WGWC-11 (180-88630-19)	Sample Date: 4/3/19	Sample Time: 12:20 Eastern	Field Filtered Sample (Yes or No): X
WGWC-13 (180-88630-20)	Sample Date: 4/3/19	Sample Time: 13:20 Eastern	Field Filtered Sample (Yes or No): X
WGWC-14A (180-88630-21)	Sample Date: 4/3/19	Sample Time: 14:35 Eastern	Field Filtered Sample (Yes or No): X
WGWC-15 (180-88630-23)	Sample Date: 4/4/19	Sample Time: 10:35 Eastern	Field Filtered Sample (Yes or No): X
WGWC-16 (180-88630-24)	Sample Date: 4/4/19	Sample Time: 11:40 Eastern	Field Filtered Sample (Yes or No): X
FB-2-4-4-19 (180-88630-25)	Sample Date: 4/4/19	Sample Time: 12:00 Eastern	Field Filtered Sample (Yes or No): X
			Form MS/MSD (Yes or No): X
			9315_Ra226/PreSep_21 Standard Target List
			920_Ra228/PreSep_0 Standard Target List
			Ra226Ra228_GPPC
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify)			
Primary Deliverable Rank: 2			
Empty Kit Relinquished by:			
Relinquished by: [Signature]			
Relinquished by: [Signature]			
Relinquished by:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Custody Seal No.:			
Cooler Temperature(s) °C and Other Remarks:			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions/QC Requirements:			
Empty Kit Relinquished by:			
Relinquished by: [Signature]			
Relinquished by: [Signature]			
Relinquished by:			
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 (Sub Contract Lab) Client Contact: Bortol, Veronica Shipping/Receiving: veronica.bortol@testamericainc.com Company: TestAmerica Laboratories, Inc.		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com Accreditations Required (See note):		Carrier Tracking No(s): 180-359806.1 State of Origin: Georgia Job #: 180-88630-2		COC No: 180-359806.1 Page: Page 1 of 3	
Address: 3355 McLemore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email:		Due Date Requested: 4/17/2019 TAT Requested (days):		PO #:		Project #: 18019922 SSOW#:	
Project Name: CCR - Plant Wansley Site: CCR - Plant Wansley Lanfill		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
WGWA-1 (180-88630-1)		4/1/19		13:45 Eastern		Water	
WGWA-5 (180-88630-2)		4/2/19		11:30 Eastern		Water	
WGWA-6 (180-88630-3)		4/2/19		13:15 Eastern		Water	
FB-1-4-2-19 (180-88630-4)		4/2/19		12:10 Eastern		Water	
WGWA-18 (180-88630-5)		4/2/19		14:25 Eastern		Water	
WGW-9 (180-88630-6)		4/3/19		13:40 Eastern		Water	
WGW-8 (180-88630-7)		4/3/19		14:50 Eastern		Water	
WGW-17 (180-88630-8)		4/4/19		09:55 Eastern		Water	
EB-2-4-4-19 (180-88630-9)		4/4/19		09:40 Eastern		Water	
Total Number of Containers		1		1		1	
Special Instructions/Note:		Preservation Codes:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 H - Ascorbic Acid U - Acetone J - DI Water K - EDTA L - EDA Other:		Analysis Requested	
Possible Hazard Identification Unconfirmed		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Method of Shipment:	
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Date:		Time:	
Empty Kit Relinquished by:		Date/Time: 4/11/19 1700		Company: TA		Received by: Kathy R. Owen	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 4.2°C IR7		Date/Time:	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.



Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Shipping/Receiving		Phone:	Bortot, Veronica	State of Origin: Georgia	180-359806.2
Company: TestAmerica Laboratories, Inc.		E-Mail: veronica.bortot@testamericainc.com		Page: Page 2 of 3	
Address: 3355 McLemore Drive,		Accreditations Required (See note):		Job #: 180-88630-2	
City: Pensacola	Due Date Requested: 4/17/2019	Analysis Requested			
State, Zip: FL, 32514	TAT Requested (days):	Perform MS/MSD (Yes or No)			
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:	Field Filtered Sample (Yes or No)			
Email:	WO #:	Total Number of Containers			
Project Name: CCR - Plant Wansley	Project #: 18019922	Preservation Codes:			
Site: CCR - Plant Wansley Lanfill	SSOW#:	M - Hexane N - None O - As NaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Trace, As=As)	Special Instructions/Note:
WGWC-10 (180-88630-10)	4/4/19	11:35 Eastern		Water	
DUP-2-4-3-19 (180-88630-11)	4/4/19	Eastern		Water	
DUP-1 (180-88630-12)	4/4/19	Eastern		Water	
WGWA-2 (180-88630-13)	4/1/19	14:50 Eastern		Water	
WGWA-7 (180-88630-14)	4/2/19	11:15 Eastern		Water	
WGWA-4 (180-88630-15)	4/2/19	12:45 Eastern		Water	
WGWA-3 (180-88630-16)	4/2/19	13:50 Eastern		Water	
WGWC-19 (180-88630-17)	4/2/19	14:55 Eastern		Water	
WGWC-12 (180-88630-18)	4/3/19	11:05 Eastern		Water	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification		Special Instructions/QC Requirements:	
Unconfirmed	Deliverable Requested: I, II, III, IV, Other (specify)	Return To Client	Disposal By Lab
Primary Deliverable Rank: 2		Archive For _____ Months	
Empty Kit Relinquished by:	Date:	Method of Shipment:	
Relinquished by: <i>[Signature]</i>	4/11/19 17:00	Received by: <i>[Signature]</i>	Date/Time: 4-12-19 8:57
Relinquished by:		Company: <i>[Signature]</i>	Company: <i>[Signature]</i>
Relinquished by:		Company:	Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Relinquished by:	Date/Time:



Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 3355 McLemore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email: Project Name: CCR - Plant Wansley Site: CCR - Plant Wansley Lanfill			Lab PM: Bortot, Veronica E-Mail: veronica.bortot@testamericainc.com Carrier Tracking No(s): 180-359806.3 State of Origin: Georgia Page: Page 3 of 3 Job #: 180-88630-2						
Due Date Requested: 4/17/2019 TAT Requested (days): PO #: WO #: Project #: 18019922 SSOW#:			Analysis Requested: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)						
Sample Identification - Client ID (Lab ID)			Special Instructions/Note:						
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, AC=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020/3005A (MOD) Edison TAL Metals (SOM01.2 List)	Total Number of Containers	Special Instructions/Note:
WGWC-11 (180-88630-19)	4/3/19	12:20 Eastern		Water	X	X		1	
WGWC-13 (180-88630-20)	4/3/19	13:20 Eastern		Water	X	X		1	
WGWC-14A (180-88630-21)	4/3/19	14:35 Eastern		Water	X	X		1	
WGWC-15 (180-88630-23)	4/4/19	10:35 Eastern		Water	X	X		1	
WGWC-16 (180-88630-24)	4/4/19	11:40 Eastern		Water	X	X		1	
FB-2-4-4-19 (180-88630-25)	4/4/19	12:00 Eastern		Water	X	X		1	
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I									
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: Date/Time: Company: Received by: Date/Time: Company:									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:									
Date: Time: Method of Shipment: Relinquished by: Date/Time: Company: Received by: Date/Time: Company:									
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:									
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:									
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No									

4.20c 717



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88630-2

SDG Number: Ash Pond

Login Number: 88630

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: 180-88630-2

SDG Number: Ash Pond

Login Number: 88630

List Number: 3

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 04/16/19 10:03 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	20.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Product Name: Low-Flow System

Date: 2019-02-25 15:07:25

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 613179
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .375 in
Tubing Length 129 ft

Pump placement from TOC 122 ft

Well Information:

Well ID WGWA-1
Well diameter 2 in
Well Total Depth 129.60 ft
Screen Length 10 ft
Depth to Water 21.89 ft

Pumping Information:

Final Pumping Rate 75 mL/min
Total System Volume 3.286705 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.3 in
Total Volume Pumped 3.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	14:50:07	300.03	16.52	5.26	37.02	0.39	22.00	1.86	110.25
Last 5	14:55:07	600.02	17.01	5.26	37.03	0.57	22.00	1.86	109.93
Last 5	15:00:07	900.02	17.67	5.25	37.12	0.48	22.00	1.86	110.59
Last 5	15:05:07	1200.01	18.16	5.25	36.87	0.31	22.00	1.85	111.28
Last 5									
Variance 0			0.49	-0.01	0.01			0.00	-0.32
Variance 1			0.66	-0.01	0.09			-0.01	0.67
Variance 2			0.49	-0.00	-0.25			-0.00	0.68

Notes

Sunny, sample time: 1505

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-25 15:21:04

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 541714
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 103 ft

Pump placement from TOC 97.65 ft

Well Information:

Well ID WGWA-2
Well diameter 2 in
Well Total Depth 103.65 ft
Screen Length 10 ft
Depth to Water 7.33 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.9447325 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6 in
Total Volume Pumped 13 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	15:00:03	2102.02	16.00	6.03	122.48	10.50	7.90	0.13	106.98
Last 5	15:05:03	2402.02	16.00	6.03	123.11	10.20	7.90	0.15	109.67
Last 5	15:10:03	2702.02	15.91	6.05	123.86	6.76	7.90	0.16	106.84
Last 5	15:15:03	3002.02	15.86	6.02	124.64	5.85	7.90	0.17	108.22
Last 5	15:20:04	3303.02	15.90	6.02	125.39	4.92	7.90	0.18	106.74
Variance 0			-0.09	0.03	0.75			0.01	-2.83
Variance 1			-0.04	-0.04	0.78			0.01	1.38
Variance 2			0.04	0.00	0.76			0.01	-1.48

Notes

Sampled at 1520. 61F partly cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-26 10:37:37

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 541714
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 15 ft

Pump placement from TOC 14 ft

Well Information:

Well ID WGWA-3
Well diameter 2 in
Well Total Depth 19 ft
Screen Length 10 ft
Depth to Water 2.05 ft

Pumping Information:

Final Pumping Rate 325 mL/min
Total System Volume 0.5519513 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 9.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	10:15:05	300.01	16.35	5.80	34.55	4.71	2.10	5.64	98.02
Last 5	10:20:05	600.02	16.38	5.63	34.50	2.37	2.20	5.61	97.19
Last 5	10:25:05	900.01	16.40	5.61	34.47	1.48	2.30	5.59	96.49
Last 5	10:30:06	1201.02	16.53	5.60	34.34	0.79	2.30	5.57	96.57
Last 5	10:35:11	1506.02	16.80	5.60	34.20	0.61	2.30	5.52	96.35
Variance 0			0.02	-0.01	-0.04			-0.02	-0.69
Variance 1			0.13	-0.02	-0.12			-0.02	0.08
Variance 2			0.27	0.00	-0.14			-0.05	-0.22

Notes

Collected at 1035. 56F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-26 12:11:31

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 541714
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 75 ft

Pump placement from TOC 68.9 ft

Well Information:

Well ID WGWA-4
Well diameter 2 in
Well Total Depth 73.90 ft
Screen Length 10 ft
Depth to Water 1.8 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.8197567 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 14 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			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	11:50:05	600.02	16.05	6.74	147.29	7.81	2.60	1.06	100.43
Last 5	11:55:05	900.02	16.09	6.77	145.87	7.72	2.90	0.80	95.11
Last 5	12:00:05	1200.02	16.27	6.76	144.30	5.61	3.00	0.88	91.18
Last 5	12:05:07	1502.02	16.27	6.73	142.70	4.48	3.00	0.66	89.09
Last 5	12:10:08	1803.02	16.27	6.74	141.39	2.97	3.00	1.09	86.36
Variance 0			0.18	-0.00	-1.57			0.07	-3.93
Variance 1			-0.00	-0.03	-1.60			-0.21	-2.10
Variance 2			0.00	0.00	-1.30			0.42	-2.73

Notes

Sampled at 1210. 60F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-26 13:15:52

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 613179
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peri Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 23 ft

Pump placement from TOC 20 ft

Well Information:

Well ID WGWA-5
Well diameter 2 in
Well Total Depth 23.19 ft
Screen Length 10 ft
Depth to Water 7.65 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.1926587 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.2 in
Total Volume Pumped 36 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			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	12:55:04	9599.92	16.16	5.18	22.23	9.69	8.00	5.24	146.79
Last 5	13:00:04	9899.92	16.02	5.20	22.15	9.86	8.00	5.24	146.03
Last 5	13:05:04	10199.92	15.96	5.20	22.22	9.72	8.00	5.25	146.39
Last 5	13:10:04	10499.91	16.02	5.20	22.18	9.66	8.00	5.25	147.01
Last 5	13:15:04	10799.91	15.87	5.21	22.27	9.58	8.00	5.34	147.49
Variance 0			-0.06	-0.00	0.07			0.01	0.35
Variance 1			0.07	-0.00	-0.04			-0.01	0.63
Variance 2			-0.16	0.00	0.08			0.10	0.47

Notes

Cloudy, sample time: 1315

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-26 14:17:04

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 613179
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .375 in
Tubing Length 104 ft

Pump placement from TOC 101 ft

Well Information:

Well ID WGWA-6
Well diameter 2 in
Well Total Depth 104.5 ft
Screen Length 10 ft
Depth to Water 9.80 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 2.743739 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.2 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			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	13:55:54	1200.01	16.25	7.77	180.72	8.92	10.30	1.89	110.06
Last 5	14:00:54	1500.01	16.52	7.82	180.82	7.66	10.40	1.77	111.22
Last 5	14:05:54	1800.00	16.63	7.84	181.01	6.13	10.40	1.71	112.03
Last 5	14:10:54	2100.00	16.69	7.86	181.15	5.02	10.40	1.65	112.23
Last 5	14:15:54	2400.00	16.60	7.87	181.10	4.07	10.40	1.60	112.35
Variance 0			0.12	0.02	0.19			-0.05	0.81
Variance 1			0.06	0.02	0.14			-0.07	0.20
Variance 2			-0.09	0.01	-0.05			-0.04	0.13

Notes

Cloudy, sample time:1415

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-26 14:01:58

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 541714
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 42 ft

Pump placement from TOC 34.6 ft

Well Information:

Well ID WGWA-7
Well diameter 2 in
Well Total Depth 39.6 ft
Screen Length 10 ft
Depth to Water 17.74 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6724638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 9.625 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			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	13:40:07	1802.02	16.35	5.78	31.36	0.58	17.80	7.47	71.76
Last 5	13:45:07	2102.02	16.35	5.72	29.22	1.02	17.80	7.69	73.34
Last 5	13:50:07	2402.02	16.38	5.67	28.34	0.95	17.80	7.85	75.21
Last 5	13:55:07	2702.02	16.45	5.64	27.81	0.77	17.80	7.86	76.99
Last 5	14:00:07	3002.02	16.62	5.62	27.46	0.69	17.80	7.67	78.37
Variance 0			0.02	-0.05	-0.88			0.16	1.87
Variance 1			0.07	-0.03	-0.53			0.01	1.77
Variance 2			0.18	-0.02	-0.35			-0.20	1.38

Notes

Sampled at 1400. 60F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-26 15:15:42

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 613179
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .375 in
Tubing Length 40 ft

Pump placement from TOC 35 ft

Well Information:

Well ID WGWA-18
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 13.21 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 1.353746 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 11 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	14:55:02	600.02	16.78	7.54	173.93	3.20	14.10	1.52	144.48
Last 5	15:00:02	900.02	16.65	7.61	176.75	2.99	14.10	1.53	145.83
Last 5	15:05:02	1200.02	16.56	7.63	177.43	1.68	14.10	1.48	147.07
Last 5	15:10:02	1500.01	16.52	7.65	177.68	0.98	14.10	1.42	148.33
Last 5	15:15:02	1800.01	16.48	7.66	177.89	1.11	14.10	1.35	149.34
Variance 0			-0.09	0.02	0.68			-0.05	1.25
Variance 1			-0.04	0.02	0.25			-0.06	1.25
Variance 2			-0.04	0.01	0.22			-0.07	1.01

Notes

Cloudy, sample time: 1515

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-28 10:27:59

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 541714
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 54.4 ft

Pump placement from TOC 54.4 ft

Well Information:

Well ID WGWC-8
Well diameter 2 in
Well Total Depth 59.4 ft
Screen Length 10 ft
Depth to Water .95 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.7278102 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 19 in
Total Volume Pumped 3.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	10:05:51	600.02	13.83	5.60	646.66	1.18	2.70	1.57	135.83
Last 5	10:10:51	900.02	13.76	5.58	648.76	1.97	3.20	1.60	135.94
Last 5	10:15:51	1200.02	13.74	5.58	653.47	1.17	3.50	1.66	136.11
Last 5	10:20:53	1502.02	13.76	5.57	658.53	1.58	3.60	1.68	136.25
Last 5	10:26:00	1809.02	13.88	5.55	664.08	1.02	3.70	1.67	136.48
Variance 0			-0.01	-0.00	4.71			0.05	0.17
Variance 1			0.01	-0.01	5.06			0.02	0.14
Variance 2			0.12	-0.01	5.56			-0.00	0.23

Notes

Collected at 1025. 58F rain.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-28 10:51:36

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 33° 51' 9.87"
Longitude -84° -31' -41.27"
Sonde SN 613179
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 61 ft

Pump placement from TOC 56 ft

Well Information:

Well ID WGWC-9
Well diameter 2 in
Well Total Depth 61.42 ft
Screen Length 10 ft
Depth to Water 15.52 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.7572688 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17.7 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	10:30:04	600.03	17.14	6.54	163.94	1.70	16.30	6.53	116.00
Last 5	10:35:04	900.02	17.25	6.55	162.89	1.03	16.70	6.50	116.72
Last 5	10:40:04	1200.02	17.19	6.55	162.96	1.11	16.90	6.47	117.79
Last 5	10:45:04	1500.01	17.14	6.55	162.64	1.43	17.00	6.45	119.53
Last 5	10:50:04	1800.01	17.16	6.54	163.22	1.27	17.00	6.44	121.62
Variance 0			-0.07	0.01	0.07			-0.04	1.07
Variance 1			-0.05	-0.00	-0.32			-0.02	1.74
Variance 2			0.02	-0.01	0.58			-0.01	2.09

Notes

Rain, sample time:1050, FB-2-2-28-2019 here

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 11:27:42

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 613179
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .375 in
Tubing Length 147 ft

Pump placement from TOC 142 ft

Well Information:

Well ID WGWC-10
Well diameter 2 in
Well Total Depth 147.16 ft
Screen Length 10 ft
Depth to Water 16.19 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 3.677641 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.5 in
Total Volume Pumped 6.5 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			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	11:05:05	2699.99	16.43	6.20	80.90	4.05	16.80	2.57	137.61
Last 5	11:10:05	2999.99	16.47	6.20	81.08	3.46	16.80	3.50	139.02
Last 5	11:15:05	3299.99	16.47	6.20	81.03	3.88	16.80	4.02	140.44
Last 5	11:20:05	3599.99	16.49	6.21	81.01	2.03	16.90	4.27	142.19
Last 5	11:25:05	3899.98	16.47	6.23	81.10	2.45	16.90	4.28	142.98
Variance 0			0.00	0.00	-0.05			0.52	1.42
Variance 1			0.02	0.01	-0.02			0.26	1.75
Variance 2			-0.02	0.02	0.09			0.01	0.79

Notes

Cloudy, sample time-1125

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 14:31:33

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 613179
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .375 in
Tubing Length 49. ft

Pump placement from TOC 44 ft

Well Information:

Well ID WGWC-11
Well diameter 2 in
Well Total Depth 49.50 ft
Screen Length 10 ft
Depth to Water 19.25 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 1.549214 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12.6 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	14:10:31	2400.00	17.46	5.79	45.78	8.35	20.30	6.26	143.61
Last 5	14:15:31	2700.00	17.45	5.78	45.90	7.21	20.30	6.24	145.15
Last 5	14:20:31	2999.99	17.59	5.78	45.98	6.48	20.30	6.26	145.65
Last 5	14:25:31	3299.99	18.06	5.78	46.08	5.28	20.30	6.26	146.61
Last 5	14:30:31	3599.99	18.35	5.78	46.06	4.97	20.30	6.21	147.15
Variance 0			0.14	0.01	0.08			0.02	0.50
Variance 1			0.47	-0.00	0.10			-0.00	0.96
Variance 2			0.29	0.00	-0.02			-0.05	0.54

Notes

Cloudy, sample time-1430

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 17:02:20

Project Information:

Operator Name J Berisford
Company Name Atlantic Coast Consulting
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 613179
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .375 in
Tubing Length 76 ft

Pump placement from TOC 71 ft

Well Information:

Well ID WGWC-12
Well diameter 2 in
Well Total Depth 76.50 ft
Screen Length 10 ft
Depth to Water 18.46 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 2.135617 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 19.5 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			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	16:40:10	6599.95	17.25	6.68	135.83	9.22	18.70	0.24	76.90
Last 5	16:45:10	6899.95	17.64	6.69	135.20	8.65	18.70	0.23	75.80
Last 5	16:50:10	7199.95	17.70	6.69	134.43	7.51	18.70	0.22	75.37
Last 5	16:55:10	7499.95	17.32	6.70	135.17	5.31	18.70	0.22	74.91
Last 5	17:00:10	7799.94	16.96	6.70	135.13	4.88	18.70	0.22	74.65
Variance 0			0.07	-0.00	-0.77			-0.00	-0.43
Variance 1			-0.38	0.01	0.74			-0.01	-0.46
Variance 2			-0.36	0.00	-0.04			0.00	-0.27

Notes

Sunny, sample time-1700

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 11:02:05

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 541714
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 92 ft

Pump placement from TOC 90.55 ft

Well Information:

Well ID WGWC-13
Well diameter 2 in
Well Total Depth 95.55 ft
Screen Length 10 ft
Depth to Water 14.44 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.8956349 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 27 in
Total Volume Pumped 5.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	10:40:21	3300.02	16.57	6.47	90.59	8.32	16.70	0.60	107.08
Last 5	10:45:22	3601.02	16.57	6.47	90.65	8.00	16.70	0.61	106.91
Last 5	10:50:22	3901.02	16.67	6.46	90.47	6.43	16.70	0.61	107.15
Last 5	10:55:22	4201.02	16.74	6.47	90.33	5.73	16.70	0.61	106.54
Last 5	11:00:22	4501.01	16.76	6.47	90.07	4.98	16.70	0.63	106.90
Variance 0			0.10	-0.01	-0.18			-0.00	0.24
Variance 1			0.07	0.01	-0.14			0.00	-0.61
Variance 2			0.02	-0.01	-0.26			0.02	0.37

Notes

Sampled at 1100. 61F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 11:57:42

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 541714
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 38.08 ft

Pump placement from TOC 38.08 ft

Well Information:

Well ID WGWC-14A
Well diameter 2 in
Well Total Depth 43.08 ft
Screen Length 10 ft
Depth to Water 14.01 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6549672 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 14 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	11:35:17	300.03	16.85	5.82	37.44	2.99	15.10	4.93	98.56
Last 5	11:40:17	600.02	16.80	5.79	37.49	1.78	15.20	4.88	99.95
Last 5	11:45:17	900.02	16.80	5.79	37.44	1.54	15.20	4.96	100.56
Last 5	11:50:17	1200.02	16.80	5.74	37.62	1.28	15.20	4.55	100.60
Last 5	11:55:22	1505.02	16.81	5.73	38.07	1.43	15.20	4.39	101.60
Variance 0			-0.00	-0.01	-0.06			0.08	0.61
Variance 1			0.00	-0.05	0.18			-0.40	0.03
Variance 2			0.00	-0.01	0.46			-0.16	1.01

Notes

Sampled at 1155. 61 F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 13:32:27

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 541714
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 48.36 ft

Pump placement from TOC 48.36 ft

Well Information:

Well ID WGWC-15
Well diameter 2 in
Well Total Depth 53.36 ft
Screen Length 10 ft
Depth to Water 13.94 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.7008512 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 72 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	13:10:29	2103.02	17.08	7.33	313.20	0.94	19.50	2.88	112.10
Last 5	13:15:29	2403.02	17.02	7.38	312.98	0.89	19.80	2.87	113.34
Last 5	13:20:29	2703.02	16.98	7.38	312.94	0.91	20.10	2.93	113.08
Last 5	13:25:30	3004.02	17.03	7.40	312.74	0.87	20.20	2.94	112.22
Last 5	13:30:30	3304.02	17.02	7.40	312.68	0.91	20.30	2.64	112.71
Variance 0			-0.03	-0.00	-0.04			0.06	-0.26
Variance 1			0.05	0.03	-0.20			0.01	-0.86
Variance 2			-0.00	-0.00	-0.06			-0.29	0.49

Notes

Sampled at 1330. 62F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 14:30:52

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 541714
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 29.7 ft

Pump placement from TOC 29.7 ft

Well Information:

Well ID WGWC-16
Well diameter 2 in
Well Total Depth 34.7 ft
Screen Length 10 ft
Depth to Water 13.15 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.6175637 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 7.1 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			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	14:05:02	300.03	17.13	5.08	1180.35	6.67	13.40	4.01	131.82
Last 5	14:10:02	600.02	17.11	5.06	1145.79	5.67	13.40	3.82	132.89
Last 5	14:15:02	900.02	17.12	5.06	1138.01	2.86	13.40	3.77	133.37
Last 5	14:25:05	1503.02	17.25	5.08	1135.44	2.67	13.40	3.84	134.28
Last 5	14:30:07	1805.02	17.30	5.08	1135.77	2.34	13.40	3.86	134.68
Variance 0			0.00	0.01	-7.78			-0.04	0.48
Variance 1			0.13	0.02	-2.57			0.06	0.91
Variance 2			0.05	0.00	0.32			0.02	0.40

Notes

Sampled at 1430. 61F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-26 15:11:23

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 541714
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 90 ft

Pump placement from TOC 90.54 ft

Well Information:

Well ID WGWC-17
Well diameter 2 in
Well Total Depth 95.94 ft
Screen Length 10 ft
Depth to Water 23.22 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.886708 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17 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			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	14:50:33	600.02	17.12	6.26	112.30	29.60	24.40	1.29	99.58
Last 5	14:55:33	900.05	17.02	6.22	111.37	11.30	24.50	0.86	102.41
Last 5	15:00:33	1200.03	16.98	6.24	111.78	6.85	24.60	0.80	98.14
Last 5	15:05:34	1501.02	16.93	6.19	112.84	5.70	24.60	0.80	98.97
Last 5	15:10:35	1802.02	16.92	6.17	113.13	4.41	24.70	0.83	98.94
Variance 0			-0.04	0.02	0.42			-0.06	-4.27
Variance 1			-0.05	-0.05	1.06			-0.01	0.83
Variance 2			-0.01	-0.02	0.28			0.03	-0.04

Notes

Sampled at 1510. 60F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-28 11:26:21

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name 2019 Assessment Event
Site Name Plant Wansley - Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 541714
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 89.4 ft

Pump placement from TOC 89.4 ft

Well Information:

Well ID WGWC-19
Well diameter 2 in
Well Total Depth 94.8 ft
Screen Length 10 ft
Depth to Water 16.4 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.88403 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	11:05:10	600.02	16.71	6.81	170.87	22.90	17.30	0.23	93.72
Last 5	11:10:10	900.02	16.76	6.87	177.36	11.70	17.90	0.13	93.44
Last 5	11:15:13	1203.02	16.72	6.89	182.88	6.12	17.90	0.13	94.79
Last 5	11:20:15	1505.02	16.76	6.95	186.22	4.13	17.90	0.13	93.83
Last 5	11:25:20	1810.02	16.77	6.98	187.86	4.21	17.90	0.14	93.87
Variance 0			-0.04	0.03	5.52			-0.00	1.36
Variance 1			0.04	0.06	3.35			0.01	-0.96
Variance 2			0.01	0.03	1.63			0.01	0.04

Notes

Sampled at 1125. 57F rain.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-01 13:48:07

Project Information:

Operator Name Jordan Verified
Company Name ACC
Project Name First 2019 Semi-annual Event
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354293
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type Poly
Tubing Diameter .375 in
Tubing Length 129 ft

Pump placement from TOC 124 ft

Well Information:

Well ID WGWA-1
Well diameter 2 in
Well Total Depth 129.60 ft
Screen Length 10 ft
Depth to Water 23.01 ft

Pumping Information:

Final Pumping Rate 75 mL/min
Total System Volume 3.286705 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 4.126 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	13:25:12	2100.03	16.64	5.36	36.04	0.34	23.10	3.36	137.52
Last 5	13:30:12	2400.67	16.82	5.33	36.21	0.33	23.10	3.62	143.25
Last 5	13:35:12	2700.67	16.54	5.32	36.26	0.45	23.10	4.69	139.49
Last 5	13:40:12	3000.67	16.15	5.31	36.28	0.51	23.10	4.33	138.49
Last 5	13:45:12	3300.67	16.19	5.31	36.18	0.29	23.10	4.51	138.47
Variance 0			-0.27	-0.01	0.05			1.07	-3.76
Variance 1			-0.39	-0.00	0.02			-0.36	-1.00
Variance 2			0.04	-0.00	-0.10			0.19	-0.02

Notes

Sunny, sample time-1345

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-01 14:51:44

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name First 2019 - Semi-annual event
Site Name Wansley-Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 339797
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 105 ft

Pump placement from TOC 97.65 ft

Well Information:

Well ID WGWA-2
Well diameter 2 in
Well Total Depth 102.65 ft
Screen Length 10 ft
Depth to Water 9.09 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.9536594 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7 in
Total Volume Pumped 9.5 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			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	14:30:25	1802.99	15.79	6.05	125.71	1.15	9.80	0.18	-9.37
Last 5	14:35:26	2103.98	15.73	6.06	126.56	1.13	9.80	0.21	14.85
Last 5	14:40:26	2403.97	15.75	6.08	127.11	1.24	9.80	0.24	41.65
Last 5	14:45:32	2709.96	15.84	6.09	127.90	1.03	9.80	0.24	42.48
Last 5	14:50:34	3011.96	15.80	6.09	129.24	1.03	9.80	0.23	39.88
Variance 0			0.02	0.02	0.55			0.03	26.80
Variance 1			0.09	0.01	0.78			-0.00	0.83
Variance 2			-0.05	0.00	1.35			-0.01	-2.60

Notes

Sampled at 1450. 65F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-02 13:52:04

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name First 2019 - Semi-annual
Site Name Wansley-Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 339797
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 24 ft

Pump placement from TOC 14 ft

Well Information:

Well ID WGWA-3
Well diameter 2 in
Well Total Depth 19 ft
Screen Length 10 ft
Depth to Water 2.46 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.5921222 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 10.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 3%	+/- 10		+/- 10%	+/- 10
Last 5	13:30:03	900.01	16.82	5.93	34.50	0.61	2.50	5.18	17.27
Last 5	13:35:06	1203.01	17.72	5.82	34.26	0.36	2.50	5.11	14.57
Last 5	13:40:06	1503.00	17.18	5.75	34.35	0.37	2.50	5.15	12.41
Last 5	13:45:06	1803.00	17.81	5.71	34.28	0.31	2.50	5.11	13.11
Last 5	13:50:06	2102.99	17.39	5.69	34.51	0.26	2.50	5.14	7.66
Variance 0			-0.54	-0.08	0.10			0.04	-2.16
Variance 1			0.63	-0.04	-0.08			-0.04	0.70
Variance 2			-0.42	-0.02	0.23			0.03	-5.45

Notes

Sampled at 1350. 56F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-02 12:47:08

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name First 2019 - Semi-annual
Site Name Wansley-Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 339797
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 75 ft

Pump placement from TOC 68.4 ft

Well Information:

Well ID WGWA-4
Well diameter 2 in
Well Total Depth 73.9 ft
Screen Length 10 ft
Depth to Water 3.18 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.5747567 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 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			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	12:25:13	1201.00	17.47	6.62	133.20	2.06	3.70	0.13	-86.00
Last 5	12:30:14	1502.00	17.64	6.69	133.25	1.75	3.70	0.12	-84.00
Last 5	12:35:16	1803.99	17.56	6.74	132.60	1.30	3.70	0.11	-82.24
Last 5	12:40:16	2103.98	17.68	6.78	133.45	1.25	3.70	0.11	-81.82
Last 5	12:45:17	2404.98	18.08	6.81	133.32	0.75	3.70	0.12	-74.48
Variance 0			-0.08	0.05	-0.65			-0.01	1.75
Variance 1			0.12	0.04	0.85			-0.00	0.42
Variance 2			0.40	0.03	-0.13			0.01	7.34

Notes

Sampled at 1245. 53F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-02 11:32:43

Project Information:

Operator Name Jordan Berisford
Company Name ACC
Project Name First 2019 Semi-annual Event
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354293
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri Pump
Tubing Type Poly
Tubing Diameter .375 in
Tubing Length 23 ft

Pump placement from TOC 18 ft

Well Information:

Well ID WGWA-5
Well diameter 2 in
Well Total Depth 23.91 ft
Screen Length 10 ft
Depth to Water 9.52 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5895288 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.3 in
Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Stabilization									
Last 5	11:10:12	4200.23	15.07	5.25	25.29	5.81	9.80	3.76	130.78
Last 5	11:15:12	4500.23	15.17	5.25	25.42	5.69	9.80	3.77	130.79
Last 5	11:20:12	4800.23	15.25	5.24	24.97	5.55	9.80	3.73	131.33
Last 5	11:25:12	5100.23	15.47	5.25	25.26	5.11	9.80	3.75	132.37
Last 5	11:30:12	5400.23	15.56	5.25	25.15	4.92	9.80	3.72	133.04
Variance 0			0.08	-0.01	-0.45			-0.04	0.55
Variance 1			0.22	0.01	0.29			0.02	1.04
Variance 2			0.09	0.00	-0.11			-0.03	0.67

Notes

Sunny, sample time-1130

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-02 13:17:35

Project Information:

Operator Name Jordan Berisford
Company Name ACC
Project Name First 2019 Semi-annual Event
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354293
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type Poly
Tubing Diameter .375 in
Tubing Length 104 ft

Pump placement from TOC 99 ft

Well Information:

Well ID WGWA-6
Well diameter 2 in
Well Total Depth 104.5 ft
Screen Length 10 ft
Depth to Water 11.08 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 2.743739 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	12:55:26	3601.95	17.91	7.93	180.25	2.69	11.50	2.46	-100.02
Last 5	13:00:26	3901.95	17.82	7.93	179.29	2.71	11.50	2.31	-99.91
Last 5	13:05:26	4201.95	17.72	7.93	179.83	2.28	11.50	2.19	-100.89
Last 5	13:10:26	4501.86	17.40	7.94	180.04	2.00	11.50	2.09	-103.14
Last 5	13:15:26	4801.86	18.00	7.94	179.51	2.17	11.50	2.08	-108.15
Variance 0			-0.10	0.00	0.54			-0.12	-0.98
Variance 1			-0.33	0.01	0.21			-0.10	-2.25
Variance 2			0.61	0.00	-0.53			-0.01	-5.01

Notes

Sunny, sample time-1315, FB-1-4-2-19 here

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-02 11:18:25

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name First 2019 - Semi-annual
Site Name Wansley-Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 339797
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type peri Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 45 ft

Pump placement from TOC 27.1 ft

Well Information:

Well ID WGWA-7
Well diameter 2 in
Well Total Depth 39.6 ft
Screen Length 10 ft
Depth to Water 18.8 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 12.1 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			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	10:55:04	3001.96	15.88	5.78	27.72	0.31	19.00	7.07	83.22
Last 5	11:00:04	3301.95	15.93	5.73	27.29	0.43	19.00	7.07	80.25
Last 5	11:05:08	3605.95	15.77	5.67	25.64	0.70	19.00	7.09	83.14
Last 5	11:10:09	3906.94	15.71	5.62	25.62	0.79	19.00	7.13	84.62
Last 5	11:15:18	4215.93	15.84	5.60	25.29	0.50	19.00	7.11	85.04
Variance 0			-0.17	-0.06	-1.66			0.02	2.89
Variance 1			-0.05	-0.05	-0.02			0.04	1.48
Variance 2			0.13	-0.02	-0.33			-0.01	0.42

Notes

Sampled at 1115. 51F partly cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-02 14:28:12

Project Information:

Operator Name Jordan Berisford
Company Name ACC
Project Name First 2019 Semi-annual Event
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354293
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type Poly
Tubing Diameter .375 in
Tubing Length 40 ft

Pump placement from TOC 35 ft

Well Information:

Well ID WGWA-18
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 15 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 1.353746 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.2 in
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Stabilization									
Last 5	14:05:15	900.02	17.23	7.45	171.12	2.21	15.60	2.83	126.06
Last 5	14:10:15	1200.02	17.93	7.50	171.30	2.55	15.60	2.33	124.92
Last 5	14:15:15	1500.02	18.47	7.59	171.26	2.10	15.60	1.84	124.12
Last 5	14:20:15	1800.03	17.97	7.61	169.90	1.77	15.60	1.70	121.84
Last 5	14:25:15	2100.02	16.99	7.53	169.76	1.42	15.60	1.81	113.67
Variance 0			0.53	0.08	-0.04			-0.49	-0.81
Variance 1			-0.50	0.02	-1.36			-0.14	-2.28
Variance 2			-0.98	-0.08	-0.14			0.12	-8.17

Notes

Cloudy, sample time 1425

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-03 14:52:12

Project Information:

Operator Name Jordan Berisford
Company Name ACC
Project Name First 2019 Semi-annual Event
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354293
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type Poly
Tubing Diameter .375 in
Tubing Length 59 ft

Pump placement from TOC 54 ft

Well Information:

Well ID WGWC-8
Well diameter 2 in
Well Total Depth 59.40 ft
Screen Length 10 ft
Depth to Water 4.04 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 1.7664 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.7 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Stabilization									
Last 5	14:30:04	600.02	20.76	5.64	680.15	1.11	4.60	1.64	219.63
Last 5	14:35:04	900.02	21.20	5.59	665.71	0.74	4.60	1.79	231.30
Last 5	14:40:04	1200.02	21.66	5.57	661.87	0.88	4.60	1.82	240.77
Last 5	14:45:04	1500.03	21.86	5.56	663.01	0.90	4.60	1.88	260.38
Last 5	14:50:04	1800.03	22.08	5.55	664.82	0.92	4.60	1.92	273.74
Variance 0			0.46	-0.03	-3.83			0.04	9.47
Variance 1			0.20	-0.01	1.14			0.05	19.61
Variance 2			0.21	-0.00	1.80			0.04	13.36

Notes

Sunny, sample time-1450, dup-2-4-3-19

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-03 13:43:49

Project Information:

Operator Name Jordan Berisford
Company Name ACC
Project Name First 2019 Semi-annual Event
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 354293
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type Peri Pump
Tubing Type Poly
Tubing Diameter .17 in
Tubing Length 61 ft

Pump placement from TOC 56 ft

Well Information:

Well ID WGWC-9
Well diameter 2 in
Well Total Depth 61.42 ft
Screen Length 10 ft
Depth to Water 16.19 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.3622688 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 24 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Stabilization									
Last 5	13:20:11	600.03	21.85	6.04	161.29	1.62	17.30	1.92	166.72
Last 5	13:25:11	900.02	21.63	6.12	161.43	3.13	17.60	2.44	170.74
Last 5	13:30:11	1200.02	21.48	6.12	160.54	3.22	18.00	2.74	179.08
Last 5	13:35:11	1500.03	21.59	6.12	161.43	2.01	18.10	2.65	187.70
Last 5	13:40:12	1800.45	21.72	6.10	160.93	1.02	18.10	2.51	191.18
Variance 0			-0.15	0.00	-0.89			0.30	8.34
Variance 1			0.11	-0.01	0.89			-0.09	8.62
Variance 2			0.13	-0.01	-0.50			-0.14	3.48

Notes

Sunny, sample time-1340

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-04 11:37:30

Project Information:

Operator Name Jordan Berisford
Company Name ACC
Project Name First 2019 Semi-annual Event
Site Name Plant Wansley
Latitude 33° 51' 9.49"
Longitude -84° -31' -40.93"
Sonde SN 354293
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type Poly
Tubing Diameter .375 in
Tubing Length 147 ft

Pump placement from TOC 142 ft

Well Information:

Well ID WGWC-10
Well diameter 2 in
Well Total Depth 147.16 ft
Screen Length 10 ft
Depth to Water 16.13 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 3.677641 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17.6 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Stabilization									
Last 5	11:15:08	1200.02	16.82	6.36	81.99	2.19	17.40	2.99	99.51
Last 5	11:20:08	1500.23	16.90	6.42	82.03	3.43	17.40	3.88	101.85
Last 5	11:25:08	1800.22	17.08	6.46	82.11	4.20	17.50	4.42	102.49
Last 5	11:30:08	2100.23	17.09	6.46	82.17	4.65	17.50	4.67	105.51
Last 5	11:35:08	2400.22	17.35	6.46	82.33	4.12	17.60	4.71	110.73
Variance 0			0.18	0.04	0.08			0.54	0.63
Variance 1			0.00	0.00	0.06			0.25	3.02
Variance 2			0.27	-0.00	0.16			0.05	5.22

Notes

Cloudy, sample time-1135

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-03 12:25:08

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name First 2019 - Semi-annual event
Site Name Wansley-Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 339797
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 44.50 ft

Well Information:

Well ID WGWC-11
Well diameter 2 in
Well Total Depth 49.5 ft
Screen Length 10 ft
Depth to Water 20.09 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.7304883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 18 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			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	12:00:07	1200.01	18.34	6.31	40.13	8.48	21.80	7.17	28.04
Last 5	12:05:07	1500.01	18.41	6.20	40.37	7.32	21.90	7.14	26.61
Last 5	12:10:07	1800.00	18.30	6.16	40.60	5.51	21.90	7.15	25.40
Last 5	12:15:07	2100.00	18.45	6.10	40.71	5.21	21.90	7.08	25.04
Last 5	12:20:07	2400.00	18.52	6.07	40.99	4.81	21.90	7.08	23.65
Variance 0			-0.11	-0.04	0.24			0.02	-1.20
Variance 1			0.15	-0.06	0.11			-0.08	-0.36
Variance 2			0.07	-0.03	0.27			0.00	-1.39

Notes

Sampled 1220. 65F cleat

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-03 11:06:08

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name First 2019 - Semi-annual event
Site Name Wansley-Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 339797
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 80 ft

Pump placement from TOC 71.57 ft

Well Information:

Well ID WGWC-12
Well diameter 2 in
Well Total Depth 76.57 ft
Screen Length 10 ft
Depth to Water 19.14 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.8420739 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6 in
Total Volume Pumped 14.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	10:45:11	3301.97	17.01	6.93	127.93	6.98	19.70	1.53	-10.51
Last 5	10:50:11	3601.96	17.01	6.92	129.35	6.62	19.70	1.16	-24.09
Last 5	10:55:11	3901.96	17.05	6.91	129.89	6.13	19.70	1.45	-16.75
Last 5	11:00:11	4201.95	17.18	6.91	129.04	5.20	19.70	1.17	-26.80
Last 5	11:05:11	4501.95	17.10	6.91	130.61	4.94	19.70	1.46	-24.35
Variance 0			0.04	-0.01	0.54			0.29	7.34
Variance 1			0.13	0.00	-0.85			-0.28	-10.05
Variance 2			-0.08	-0.01	1.56			0.29	2.44

Notes

Sampled at 1105. 62F clear.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-03 13:22:11

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name First 2019 - Semi-annual event
Site Name Wansley-Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 339797
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 100 ft

Pump placement from TOC 90.00 ft

Well Information:

Well ID WGWC-13
Well diameter 2 in
Well Total Depth 95.55 ft
Screen Length 10 ft
Depth to Water 17.23 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.9313423 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 19 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	13:00:11	600.02	19.86	6.39	85.88	1.55	18.60	1.66	-71.63
Last 5	13:05:12	901.02	19.64	6.44	87.40	4.57	18.70	1.94	-9.72
Last 5	13:10:12	1201.01	18.88	6.46	87.46	4.18	18.70	1.61	9.08
Last 5	13:15:18	1507.00	18.99	6.47	87.45	3.94	18.80	1.51	9.52
Last 5	13:20:23	1812.00	19.00	6.47	87.04	4.05	18.90	1.48	7.57
Variance 0			-0.76	0.02	0.06			-0.33	18.81
Variance 1			0.10	0.01	-0.02			-0.10	0.43
Variance 2			0.01	0.00	-0.40			-0.03	-1.95

Notes

Sampled at 1320. 67F partly cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-03 14:36:06

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name First 2019 - Semi-annual event
Site Name Wansley-Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 339797
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type
Tubing Type
Tubing Diameter
Tubing Length
Peri. Pump
poly
.17 in
49 ft

Pump placement from TOC 37.08 ft

Well Information:

Well ID WGWC-14A
Well diameter 2 in
Well Total Depth 43.08 ft
Screen Length 10 ft
Depth to Water 17.32 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.3087077 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 16 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	14:15:11	901.02	19.24	5.71	51.99	5.78	18.70	0.28	32.91
Last 5	14:20:12	1202.02	19.13	5.69	52.46	6.75	18.70	0.31	31.76
Last 5	14:25:12	1502.01	19.24	5.69	52.54	4.28	18.70	0.29	29.49
Last 5	14:30:12	1802.01	19.42	5.69	53.45	3.90	18.70	0.28	22.64
Last 5	14:35:12	2101.99	19.64	5.68	53.42	3.36	18.70	0.26	35.28
Variance 0			0.10	0.00	0.08			-0.02	-2.28
Variance 1			0.18	-0.00	0.90			-0.02	-6.85
Variance 2			0.22	-0.00	-0.02			-0.02	12.65

Notes

Sampled at 1435. 69F partly cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-04 10:36:57

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name First 2019 - Semi-annual event
Site Name Wansley-Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 339797
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 56 ft

Pump placement from TOC 48 ft

Well Information:

Well ID WGWC-15
Well diameter 2 in
Well Total Depth 53.36 ft
Screen Length 10 ft
Depth to Water 14.84 ft

Pumping Information:

Final Pumping Rate 60 mL/min
Total System Volume 0.7349517 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 113 in
Total Volume Pumped 9.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	10:15:32	3303.95	16.74	7.55	297.28	1.48	23.60	2.41	-29.75
Last 5	10:20:32	3603.95	16.52	7.58	297.74	1.32	23.80	2.40	-30.63
Last 5	10:25:32	3903.94	16.60	7.57	297.91	1.50	23.90	2.38	-30.49
Last 5	10:30:32	4203.93	16.69	7.58	297.89	1.06	24.00	2.40	-30.09
Last 5	10:35:32	4503.92	16.75	7.58	298.58	1.03	24.10	2.37	-31.67
Variance 0			0.08	-0.00	0.17			-0.02	0.14
Variance 1			0.09	0.01	-0.01			0.02	0.40
Variance 2			0.05	-0.00	0.69			-0.02	-1.57

Notes

Sampled at 1035. 67F partly cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-04 11:42:30

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name First 2019 - Semi-annual event
Site Name Wansley-Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 339797
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 38 ft

Pump placement from TOC 29.28 ft

Well Information:

Well ID WGWC-16
Well diameter 2 in
Well Total Depth 34.78 ft
Screen Length 10 ft
Depth to Water 14.25 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.6546101 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 11 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	11:20:48	900.01	17.01	5.52	1070.29	1.11	14.50	3.53	36.59
Last 5	11:25:51	1203.00	17.02	5.36	1070.78	0.59	14.50	3.57	42.13
Last 5	11:30:51	1503.00	17.08	5.27	1072.80	0.44	14.50	3.60	39.55
Last 5	11:35:53	1804.99	17.05	5.22	1070.51	0.45	14.50	3.63	43.55
Last 5	11:40:53	2104.98	17.06	5.19	1068.06	0.65	14.50	3.66	43.50
Variance 0			0.06	-0.08	2.02			0.04	-2.58
Variance 1			-0.02	-0.05	-2.29			0.03	3.99
Variance 2			0.01	-0.03	-2.45			0.03	-0.05

Notes

Sampled at 1140. 69F cloudy.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-04 09:57:59

Project Information:

Operator Name Jordan Berisford
Company Name ACC
Project Name First 2019 Semi-annual Event
Site Name Plant Wansley
Latitude 33° 51' 9.49"
Longitude -84° -31' -40.93"
Sonde SN 354293
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type Poly
Tubing Diameter .375 in
Tubing Length 95 ft

Pump placement from TOC 90 ft

Well Information:

Well ID WGWC-17
Well diameter 2 in
Well Total Depth 95.94 ft
Screen Length 10 ft
Depth to Water 24.18 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 2.548271 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Stabilization									
Last 5	09:35:08	600.06	15.96	6.14	112.16	6.62	25.10	0.87	42.31
Last 5	09:40:08	900.03	15.96	6.15	111.98	6.02	25.40	0.70	63.59
Last 5	09:45:08	1200.03	15.98	6.16	112.47	2.84	25.60	0.52	64.61
Last 5	09:50:08	1500.02	15.99	6.16	112.83	2.19	25.60	0.40	58.54
Last 5	09:55:08	1800.02	16.05	6.16	112.98	2.11	25.60	0.37	57.60
Variance 0			0.01	0.00	0.49			-0.18	1.03
Variance 1			0.01	0.00	0.35			-0.12	-6.08
Variance 2			0.06	0.00	0.15			-0.03	-0.94

Notes

Sunny, sample time-0955

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-02 14:57:13

Project Information:

Operator Name O. Fuquea
Company Name ACC
Project Name First 2019 - Semi-annual event
Site Name Wansley-Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 339797
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 100 ft

Pump placement from TOC 89.84 ft

Well Information:

Well ID WGWC-19
Well diameter 2 in
Well Total Depth 94.84 ft
Screen Length 10 ft
Depth to Water 17.18 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.9313423 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 10 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	14:35:37	900.01	16.89	6.64	146.56	2.32	18.40	0.24	-32.58
Last 5	14:40:39	1202.00	17.61	6.67	145.99	1.41	18.40	0.16	-31.07
Last 5	14:45:41	1504.00	17.72	6.70	146.50	1.36	18.40	0.15	-32.22
Last 5	14:50:42	1804.99	17.74	6.72	147.94	1.46	18.40	0.14	-33.62
Last 5	14:55:44	2106.99	17.94	6.75	148.74	1.33	18.40	0.14	-31.64
Variance 0			0.11	0.03	0.50			-0.02	-1.15
Variance 1			0.03	0.02	1.45			-0.01	-1.41
Variance 2			0.20	0.03	0.80			0.00	1.99

Notes

Sampled at 1455. 59F cloudy.

Grab Samples

ANALYTICAL REPORT

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

Laboratory Job ID: 180-95960-1

Laboratory Sample Delivery Group: Ash Pond
Client Project/Site: CCR - Plant Wansley
Revision: 1

For:

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

Attn: Joju Abraham



Authorized for release by:
11/6/2019 9:26:24 AM

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

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

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

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	5
Certification Summary	6
Sample Summary	8
Method Summary	9
Lab Chronicle	10
Client Sample Results	15
QC Sample Results	23
QC Association Summary	28
Chain of Custody	31
Receipt Checklists	37

Case Narrative

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

Job ID: 180-95960-1
SDG: Ash Pond

Job ID: 180-95960-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-95960-1

Revised: to add Boron and Calcium to metals list

Comments

No additional comments.

Receipt

The samples were received on 9/19/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.2° C, 1.3° C, 1.6° C and 3.8° C.

Receipt Exceptions

The following sample was listed on the Chain of Custody (COC); however, no sample was received: WGWA-5 (180-95960-8). The sample was received on 9/20/19

A Chain-of-Custody was not received with this sample: WGWA-5 (180-95960-8).

GC Semi VOA

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

RAD

Methods 903.0, 9315: Radium-226 prep batch 160-444126-

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 (180-95960-1), WGWA-2 (180-95960-2), FB-1 9-17-19 (180-95960-3), WGWA-18 (180-95960-4), EB-1 9-17-19 (180-95960-5), WGWA-4 (180-95960-6), WGWA-6 (180-95960-7), WGWA-5 (180-95960-8), (LCS 160-444126/1-A), (LCSD 160-444126/2-A) and (MB 160-444126/23-A)

Methods 904.0, 9320: Ra-228 Prep Batch 160-444140

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 (180-95960-1), WGWA-2 (180-95960-2), FB-1 9-17-19 (180-95960-3), WGWA-18 (180-95960-4), EB-1 9-17-19 (180-95960-5), WGWA-4 (180-95960-6), WGWA-6 (180-95960-7), WGWA-5 (180-95960-8), (LCS 160-444140/1-A), (LCSD 160-444140/2-A) and (MB 160-444140/23-A)

Method PrecSep_0: Radium 228 Prep Batch 160-444140:

Insufficient sample volume was available to perform a sample duplicate for the following samples: WGWA-1 (180-95960-1), WGWA-2 (180-95960-2), FB-1 9-17-19 (180-95960-3), WGWA-18 (180-95960-4), EB-1 9-17-19 (180-95960-5), WGWA-4 (180-95960-6), WGWA-6 (180-95960-7) and WGWA-5 (180-95960-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep_0: Radium 228 Prep Batch 160-444140:

Case Narrative

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

Job ID: 180-95960-1
SDG: Ash Pond

Job ID: 180-95960-1 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

The following samples were prepared at a reduced aliquot due to limited volume: WGWA-2 (180-95960-2) and WGWA-4 (180-95960-6).

Method PrecSep-21: Radium 226 Prep Batch 160-444126:

Insufficient sample volume was available to perform a sample duplicate for the following samples: WGWA-1 (180-95960-1), WGWA-2 (180-95960-2), FB-1 9-17-19 (180-95960-3), WGWA-18 (180-95960-4), EB-1 9-17-19 (180-95960-5), WGWA-4 (180-95960-6), WGWA-6 (180-95960-7) and WGWA-5 (180-95960-8). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-444126:

The following samples were prepared at a reduced aliquot due to limited volume: WGWA-2 (180-95960-2) and WGWA-4 (180-95960-6).

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.

General Chemistry

Method SM 2540C: The following sample was analyzed outside of analytical holding time due to lab error WGWA-5 (180-95960-8).

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: CCR - Plant Wansley

Job ID: 180-95960-1
SDG: Ash Pond

Qualifiers

HPLC/IC

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

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

Job ID: 180-95960-1
 SDG: Ash Pond

Laboratory: Eurofins TestAmerica, Pittsburgh

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

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

Accreditation/Certification Summary

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

Job ID: 180-95960-1
 SDG: Ash Pond

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-19
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-19
Iowa	State	373	09-17-20
Iowa	State Program	373	12-01-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-19
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-19
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
Washington	State Program	C592	08-30-20
West Virginia DEP	State	381	10-31-19
West Virginia DEP	State Program	381	12-31-19

Sample Summary

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

Job ID: 180-95960-1
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95960-1	WGWA-1	Water	09/16/19 14:07	09/19/19 09:00	
180-95960-2	WGWA-2	Water	09/17/19 10:17	09/19/19 09:00	
180-95960-3	FB-1 9-17-19	Water	09/17/19 10:20	09/19/19 09:00	
180-95960-4	WGWA-18	Water	09/17/19 13:41	09/19/19 09:00	
180-95960-5	EB-1 9-17-19	Water	09/17/19 13:10	09/19/19 09:00	
180-95960-6	WGWA-4	Water	09/17/19 15:25	09/19/19 09:00	
180-95960-7	WGWA-6	Water	09/16/19 13:40	09/19/19 09:00	
180-95960-8	WGWA-5	Water	09/16/19 15:49	09/19/19 09:00	

- 1
- 2
- 3
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- 11
- 12
- 13

Method Summary

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

Job ID: 180-95960-1
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

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

None = None

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.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

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

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

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

Job ID: 180-95960-1
SDG: Ash Pond

Client Sample ID: WGWA-1

Lab Sample ID: 180-95960-1

Date Collected: 09/16/19 14:07

Matrix: Water

Date Received: 09/19/19 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	300.0		1			292226	09/24/19 00:12	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292629	09/25/19 12:35	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293342	10/01/19 00:39	WTR	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292629	09/25/19 12:35	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293434	10/01/19 18:41	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292191	09/21/19 11:57	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.99 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 10:44	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.99 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:24	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-2

Lab Sample ID: 180-95960-2

Date Collected: 09/17/19 10:17

Matrix: Water

Date Received: 09/19/19 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	300.0		1			292226	09/24/19 00:28	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292629	09/25/19 12:35	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293342	10/01/19 00:43	WTR	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292629	09/25/19 12:35	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293434	10/01/19 18:45	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292409	09/24/19 11:55	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			750.86 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 10:44	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.86 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:24	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-95960-1
SDG: Ash Pond

Client Sample ID: FB-1 9-17-19

Lab Sample ID: 180-95960-3

Date Collected: 09/17/19 10:20

Matrix: Water

Date Received: 09/19/19 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	300.0		1			292226	09/24/19 00:44	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292629	09/25/19 12:35	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293342	10/01/19 00:46	WTR	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292629	09/25/19 12:35	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293434	10/01/19 18:48	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292409	09/24/19 11:55	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.81 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 10:44	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.81 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:24	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-18

Lab Sample ID: 180-95960-4

Date Collected: 09/17/19 13:41

Matrix: Water

Date Received: 09/19/19 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	300.0		1			292226	09/24/19 01:00	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292629	09/25/19 12:35	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293342	10/01/19 00:49	WTR	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292629	09/25/19 12:35	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293434	10/01/19 18:51	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292409	09/24/19 11:55	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.08 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 10:44	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.08 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:24	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-95960-1
SDG: Ash Pond

Client Sample ID: EB-1 9-17-19

Lab Sample ID: 180-95960-5

Date Collected: 09/17/19 13:10

Matrix: Water

Date Received: 09/19/19 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	300.0		1			292226	09/24/19 01:16	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292629	09/25/19 12:35	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293342	10/01/19 01:00	WTR	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292629	09/25/19 12:35	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293434	10/01/19 18:55	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292409	09/24/19 11:55	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.68 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 10:45	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.68 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:24	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-4

Lab Sample ID: 180-95960-6

Date Collected: 09/17/19 15:25

Matrix: Water

Date Received: 09/19/19 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	300.0		1			292226	09/24/19 02:01	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292629	09/25/19 12:35	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293342	10/01/19 01:03	WTR	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292629	09/25/19 12:35	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293434	10/01/19 18:58	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292409	09/24/19 11:55	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			750.56 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446867	10/18/19 10:46	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.56 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:24	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-95960-1
SDG: Ash Pond

Client Sample ID: WGWA-6

Lab Sample ID: 180-95960-7

Date Collected: 09/16/19 13:40

Matrix: Water

Date Received: 09/19/19 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	300.0		1			292226	09/24/19 02:17	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292630	09/25/19 12:37	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1	1.0 mL	1.0 mL	294723	10/10/19 20:13	WTR	TAL PIT
Instrument ID: M										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292191	09/21/19 11:57	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.81 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446867	10/18/19 10:46	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.81 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:24	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 180-95960-8

Date Collected: 09/16/19 15:49

Matrix: Water

Date Received: 09/19/19 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	300.0		1			292226	09/24/19 02:32	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292630	09/25/19 12:37	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1	1.0 mL	1.0 mL	294723	10/10/19 20:17	WTR	TAL PIT
Instrument ID: M										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292387	09/24/19 10:37	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	PrecSep-21			1000.66 mL	1.0 g	444126	09/25/19 11:11	EJQ	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 12:46	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.66 mL	1.0 g	444140	09/25/19 12:09	EJQ	TAL SL
Total/NA	Analysis	9320		1			445862	10/11/19 08:24	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447528	10/24/19 08:44	SMP	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-95960-1
SDG: Ash Pond

Analyst References:

Lab: TAL PIT

Batch Type: Prep

NAM = Nicole Marfisi

Batch Type: Analysis

AVS = Abbey Smith

MJH = Matthew Hartman

RSK = Robert Kurtz

WTR = Bill Reinheimer

Lab: TAL SL

Batch Type: Prep

EJQ = Erin Quinn

Batch Type: Analysis

AJD = Audra DeMariano

KLS = Kody Saulters

SMP = Siobhan Perry

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Client Sample Results

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

Job ID: 180-95960-1
SDG: Ash Pond

Client Sample ID: WGWA-1

Lab Sample ID: 180-95960-1

Date Collected: 09/16/19 14:07

Matrix: Water

Date Received: 09/19/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.0		1.0	0.71	mg/L			09/24/19 00:12	1
Fluoride	0.030	J	0.20	0.026	mg/L			09/24/19 00:12	1
Sulfate	0.49	J	1.0	0.38	mg/L			09/24/19 00:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/25/19 12:35	10/01/19 00:39	1
Barium	0.050		0.010	0.0016	mg/L		09/25/19 12:35	10/01/19 00:39	1
Beryllium	0.00032	J	0.0010	0.00018	mg/L		09/25/19 12:35	10/01/19 00:39	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:35	10/01/19 00:39	1
Cobalt	0.00082		0.00050	0.000075	mg/L		09/25/19 12:35	10/01/19 00:39	1
Chromium	0.0016	J	0.0020	0.0015	mg/L		09/25/19 12:35	10/01/19 00:39	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/25/19 12:35	10/01/19 00:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:35	10/01/19 00:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:35	10/01/19 00:39	1
Thallium	0.00016	J	0.0010	0.00015	mg/L		09/25/19 12:35	10/01/19 00:39	1
Lithium	0.0040	J	0.0050	0.0034	mg/L		09/25/19 12:35	10/01/19 00:39	1
Calcium	1.3		0.50	0.13	mg/L		09/25/19 12:35	10/01/19 00:39	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:35	10/01/19 18:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	27		10	10	mg/L			09/21/19 11:57	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0128	U	0.0651	0.0651	1.00	0.138	pCi/L	09/25/19 11:11	10/18/19 10:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					09/25/19 11:11	10/18/19 10:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.323	U	0.253	0.254	1.00	0.401	pCi/L	09/25/19 12:09	10/11/19 08:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					09/25/19 12:09	10/11/19 08:24	1
Y Carrier	85.2		40 - 110					09/25/19 12:09	10/11/19 08:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.310	U	0.261	0.262	5.00	0.401	pCi/L		10/24/19 08:44	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-95960-1
SDG: Ash Pond

Client Sample ID: WGWA-2

Lab Sample ID: 180-95960-2

Date Collected: 09/17/19 10:17

Matrix: Water

Date Received: 09/19/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.71	mg/L			09/24/19 00:28	1
Fluoride	0.061	J	0.20	0.026	mg/L			09/24/19 00:28	1
Sulfate	1.3		1.0	0.38	mg/L			09/24/19 00:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00033	J	0.0010	0.00032	mg/L		09/25/19 12:35	10/01/19 00:43	1
Barium	0.024		0.010	0.0016	mg/L		09/25/19 12:35	10/01/19 00:43	1
Beryllium	0.00019	J	0.0010	0.00018	mg/L		09/25/19 12:35	10/01/19 00:43	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:35	10/01/19 00:43	1
Cobalt	0.00063		0.00050	0.000075	mg/L		09/25/19 12:35	10/01/19 00:43	1
Chromium	0.0017	J	0.0020	0.0015	mg/L		09/25/19 12:35	10/01/19 00:43	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/25/19 12:35	10/01/19 00:43	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:35	10/01/19 00:43	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:35	10/01/19 00:43	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:35	10/01/19 00:43	1
Lithium	0.0083		0.0050	0.0034	mg/L		09/25/19 12:35	10/01/19 00:43	1
Calcium	13		0.50	0.13	mg/L		09/25/19 12:35	10/01/19 00:43	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:35	10/01/19 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			09/24/19 11:55	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00101	U	0.0873	0.0873	1.00	0.174	pCi/L	09/25/19 11:11	10/18/19 10:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					09/25/19 11:11	10/18/19 10:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.164	U	0.278	0.278	1.00	0.470	pCi/L	09/25/19 12:09	10/11/19 08:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					09/25/19 12:09	10/11/19 08:24	1
Y Carrier	86.4		40 - 110					09/25/19 12:09	10/11/19 08:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.165	U	0.291	0.291	5.00	0.470	pCi/L		10/24/19 08:44	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-95960-1
SDG: Ash Pond

Client Sample ID: FB-1 9-17-19

Lab Sample ID: 180-95960-3

Date Collected: 09/17/19 10:20

Matrix: Water

Date Received: 09/19/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/24/19 00:44	1
Fluoride	0.032	J	0.20	0.026	mg/L			09/24/19 00:44	1
Sulfate	<0.38		1.0	0.38	mg/L			09/24/19 00:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/25/19 12:35	10/01/19 00:46	1
Barium	<0.0016		0.010	0.0016	mg/L		09/25/19 12:35	10/01/19 00:46	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:35	10/01/19 00:46	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:35	10/01/19 00:46	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/25/19 12:35	10/01/19 00:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:35	10/01/19 00:46	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/25/19 12:35	10/01/19 00:46	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:35	10/01/19 00:46	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:35	10/01/19 00:46	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:35	10/01/19 00:46	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/25/19 12:35	10/01/19 00:46	1
Calcium	<0.13		0.50	0.13	mg/L		09/25/19 12:35	10/01/19 00:46	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:35	10/01/19 18:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/24/19 11:55	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0621	U	0.0707	0.0709	1.00	0.164	pCi/L	09/25/19 11:11	10/18/19 10:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					09/25/19 11:11	10/18/19 10:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.452		0.251	0.254	1.00	0.375	pCi/L	09/25/19 12:09	10/11/19 08:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.9		40 - 110					09/25/19 12:09	10/11/19 08:24	1
Y Carrier	86.7		40 - 110					09/25/19 12:09	10/11/19 08:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.390		0.261	0.264	5.00	0.375	pCi/L		10/24/19 08:44	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-95960-1
SDG: Ash Pond

Client Sample ID: WGWA-18

Lab Sample ID: 180-95960-4

Date Collected: 09/17/19 13:41

Matrix: Water

Date Received: 09/19/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.71	mg/L			09/24/19 01:00	1
Fluoride	0.079	J	0.20	0.026	mg/L			09/24/19 01:00	1
Sulfate	8.0		1.0	0.38	mg/L			09/24/19 01:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00040	J	0.0010	0.00032	mg/L		09/25/19 12:35	10/01/19 00:49	1
Barium	0.013		0.010	0.0016	mg/L		09/25/19 12:35	10/01/19 00:49	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:35	10/01/19 00:49	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:35	10/01/19 00:49	1
Cobalt	0.0012		0.00050	0.000075	mg/L		09/25/19 12:35	10/01/19 00:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:35	10/01/19 00:49	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/25/19 12:35	10/01/19 00:49	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:35	10/01/19 00:49	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:35	10/01/19 00:49	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:35	10/01/19 00:49	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/25/19 12:35	10/01/19 00:49	1
Calcium	10		0.50	0.13	mg/L		09/25/19 12:35	10/01/19 00:49	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:35	10/01/19 18:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	76		10	10	mg/L			09/24/19 11:55	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0279	U	0.0810	0.0811	1.00	0.149	pCi/L	09/25/19 11:11	10/18/19 10:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					09/25/19 11:11	10/18/19 10:44	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.235	U	0.244	0.245	1.00	0.397	pCi/L	09/25/19 12:09	10/11/19 08:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					09/25/19 12:09	10/11/19 08:24	1
Y Carrier	86.4		40 - 110					09/25/19 12:09	10/11/19 08:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.263	U	0.257	0.258	5.00	0.397	pCi/L		10/24/19 08:44	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-95960-1
SDG: Ash Pond

Client Sample ID: EB-1 9-17-19

Lab Sample ID: 180-95960-5

Date Collected: 09/17/19 13:10

Matrix: Water

Date Received: 09/19/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/24/19 01:16	1
Fluoride	0.029	J	0.20	0.026	mg/L			09/24/19 01:16	1
Sulfate	<0.38		1.0	0.38	mg/L			09/24/19 01:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/25/19 12:35	10/01/19 01:00	1
Barium	<0.0016		0.010	0.0016	mg/L		09/25/19 12:35	10/01/19 01:00	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:35	10/01/19 01:00	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:35	10/01/19 01:00	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/25/19 12:35	10/01/19 01:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:35	10/01/19 01:00	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/25/19 12:35	10/01/19 01:00	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:35	10/01/19 01:00	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:35	10/01/19 01:00	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:35	10/01/19 01:00	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/25/19 12:35	10/01/19 01:00	1
Calcium	0.22	J	0.50	0.13	mg/L		09/25/19 12:35	10/01/19 01:00	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:35	10/01/19 18:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/24/19 11:55	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0341	U	0.0813	0.0814	1.00	0.147	pCi/L	09/25/19 11:11	10/18/19 10:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					09/25/19 11:11	10/18/19 10:45	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.205	U	0.238	0.238	1.00	0.391	pCi/L	09/25/19 12:09	10/11/19 08:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					09/25/19 12:09	10/11/19 08:24	1
Y Carrier	85.6		40 - 110					09/25/19 12:09	10/11/19 08:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.239	U	0.252	0.252	5.00	0.391	pCi/L		10/24/19 08:44	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-95960-1
SDG: Ash Pond

Client Sample ID: WGWA-4

Lab Sample ID: 180-95960-6

Date Collected: 09/17/19 15:25

Matrix: Water

Date Received: 09/19/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			09/24/19 02:01	1
Fluoride	0.14	J	0.20	0.026	mg/L			09/24/19 02:01	1
Sulfate	8.1		1.0	0.38	mg/L			09/24/19 02:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00035	J	0.0010	0.00032	mg/L		09/25/19 12:35	10/01/19 01:03	1
Barium	0.0063	J	0.010	0.0016	mg/L		09/25/19 12:35	10/01/19 01:03	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:35	10/01/19 01:03	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:35	10/01/19 01:03	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/25/19 12:35	10/01/19 01:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:35	10/01/19 01:03	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/25/19 12:35	10/01/19 01:03	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:35	10/01/19 01:03	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:35	10/01/19 01:03	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:35	10/01/19 01:03	1
Lithium	0.0049	J	0.0050	0.0034	mg/L		09/25/19 12:35	10/01/19 01:03	1
Calcium	16		0.50	0.13	mg/L		09/25/19 12:35	10/01/19 01:03	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:35	10/01/19 18:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			09/24/19 11:55	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.415		0.161	0.166	1.00	0.188	pCi/L	09/25/19 11:11	10/18/19 10:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					09/25/19 11:11	10/18/19 10:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.373	U	0.297	0.299	1.00	0.471	pCi/L	09/25/19 12:09	10/11/19 08:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					09/25/19 12:09	10/11/19 08:24	1
Y Carrier	89.7		40 - 110					09/25/19 12:09	10/11/19 08:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.788		0.338	0.342	5.00	0.471	pCi/L		10/24/19 08:44	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-95960-1
SDG: Ash Pond

Client Sample ID: WGWA-6

Lab Sample ID: 180-95960-7

Date Collected: 09/16/19 13:40

Matrix: Water

Date Received: 09/19/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			09/24/19 02:17	1
Fluoride	0.10	J	0.20	0.026	mg/L			09/24/19 02:17	1
Sulfate	8.9		1.0	0.38	mg/L			09/24/19 02:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00036	J	0.0010	0.00032	mg/L		09/25/19 12:37	10/10/19 20:13	1
Barium	0.0073	J	0.010	0.0016	mg/L		09/25/19 12:37	10/10/19 20:13	1
Beryllium	0.0011	B	0.0010	0.00018	mg/L		09/25/19 12:37	10/10/19 20:13	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:37	10/10/19 20:13	1
Cobalt	0.000091	J	0.00050	0.000075	mg/L		09/25/19 12:37	10/10/19 20:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:37	10/10/19 20:13	1
Molybdenum	0.0010	J	0.0050	0.00061	mg/L		09/25/19 12:37	10/10/19 20:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:37	10/10/19 20:13	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:37	10/10/19 20:13	1
Thallium	0.00062	J	0.0010	0.00015	mg/L		09/25/19 12:37	10/10/19 20:13	1
Lithium	0.032		0.0050	0.0034	mg/L		09/25/19 12:37	10/10/19 20:13	1
Calcium	25		0.50	0.13	mg/L		09/25/19 12:37	10/10/19 20:13	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:37	10/10/19 20:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			09/21/19 11:57	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.08		0.317	0.421	1.00	0.128	pCi/L	09/25/19 11:11	10/18/19 10:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					09/25/19 11:11	10/18/19 10:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.48		0.490	0.703	1.00	0.326	pCi/L	09/25/19 12:09	10/11/19 08:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					09/25/19 12:09	10/11/19 08:24	1
Y Carrier	89.3		40 - 110					09/25/19 12:09	10/11/19 08:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	8.55		0.584	0.819	5.00	0.326	pCi/L		10/24/19 08:44	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-95960-1
SDG: Ash Pond

Client Sample ID: WGWA-5

Lab Sample ID: 180-95960-8

Date Collected: 09/16/19 15:49

Matrix: Water

Date Received: 09/19/19 09:00

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L			09/24/19 02:32	1
Fluoride	<0.026		0.20	0.026	mg/L			09/24/19 02:32	1
Sulfate	2.2		1.0	0.38	mg/L			09/24/19 02:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/25/19 12:37	10/10/19 20:17	1
Barium	0.027		0.010	0.0016	mg/L		09/25/19 12:37	10/10/19 20:17	1
Beryllium	0.00036	J B	0.0010	0.00018	mg/L		09/25/19 12:37	10/10/19 20:17	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:37	10/10/19 20:17	1
Cobalt	0.0035		0.00050	0.000075	mg/L		09/25/19 12:37	10/10/19 20:17	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:37	10/10/19 20:17	1
Molybdenum	0.0010	J	0.0050	0.00061	mg/L		09/25/19 12:37	10/10/19 20:17	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:37	10/10/19 20:17	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:37	10/10/19 20:17	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:37	10/10/19 20:17	1
Lithium	0.028		0.0050	0.0034	mg/L		09/25/19 12:37	10/10/19 20:17	1
Calcium	36		0.50	0.13	mg/L		09/25/19 12:37	10/10/19 20:17	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:37	10/10/19 20:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	41	H	10	10	mg/L			09/24/19 10:37	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0536	U	0.0766	0.0767	1.00	0.130	pCi/L	09/25/19 11:11	10/18/19 12:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		40 - 110					09/25/19 11:11	10/18/19 12:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.264	U	0.219	0.220	1.00	0.348	pCi/L	09/25/19 12:09	10/11/19 08:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		40 - 110					09/25/19 12:09	10/11/19 08:24	1
Y Carrier	87.5		40 - 110					09/25/19 12:09	10/11/19 08:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.318	U	0.232	0.233	5.00	0.348	pCi/L		10/24/19 08:44	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-95960-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-292226/45
Matrix: Water
Analysis Batch: 292226

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			09/23/19 21:34	1
Fluoride	<0.026		0.20	0.026	mg/L			09/23/19 21:34	1
Sulfate	<0.38		1.0	0.38	mg/L			09/23/19 21:34	1

Lab Sample ID: LCS 180-292226/44
Matrix: Water
Analysis Batch: 292226

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	23.7		mg/L		95	90 - 110
Fluoride	1.25	1.24		mg/L		99	90 - 110
Sulfate	25.0	23.5		mg/L		94	90 - 110

Method: EPA 6020 - Metals (ICP/MS)

Lab Sample ID: MB 180-292629/1-A
Matrix: Water
Analysis Batch: 293342

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/25/19 12:35	09/30/19 23:19	1
Barium	<0.0016		0.010	0.0016	mg/L		09/25/19 12:35	09/30/19 23:19	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/25/19 12:35	09/30/19 23:19	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:35	09/30/19 23:19	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/25/19 12:35	09/30/19 23:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:35	09/30/19 23:19	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/25/19 12:35	09/30/19 23:19	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:35	09/30/19 23:19	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:35	09/30/19 23:19	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:35	09/30/19 23:19	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/25/19 12:35	09/30/19 23:19	1
Calcium	<0.13		0.50	0.13	mg/L		09/25/19 12:35	09/30/19 23:19	1

Lab Sample ID: MB 180-292629/1-A
Matrix: Water
Analysis Batch: 293434

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0524	J	0.080	0.039	mg/L		09/25/19 12:35	10/01/19 17:07	1

Lab Sample ID: LCS 180-292629/2-A
Matrix: Water
Analysis Batch: 293342

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.974		mg/L		97	80 - 120
Barium	1.00	1.13		mg/L		113	80 - 120
Beryllium	0.500	0.537		mg/L		107	80 - 120
Cadmium	0.500	0.547		mg/L		109	80 - 120
Cobalt	0.500	0.493		mg/L		99	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-95960-1
SDG: Ash Pond

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

Lab Sample ID: LCS 180-292629/2-A
Matrix: Water
Analysis Batch: 293342

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.500	0.550		mg/L		110	80 - 120
Molybdenum	0.500	0.548		mg/L		110	80 - 120
Lead	0.500	0.543		mg/L		109	80 - 120
Selenium	1.00	1.07		mg/L		107	80 - 120
Thallium	1.00	1.11		mg/L		111	80 - 120
Lithium	0.500	0.499		mg/L		100	80 - 120
Calcium	25.0	27.3		mg/L		109	80 - 120

Lab Sample ID: LCS 180-292629/2-A
Matrix: Water
Analysis Batch: 293434

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.25	1.19		mg/L		95	80 - 120

Lab Sample ID: MB 180-292630/1-A
Matrix: Water
Analysis Batch: 294723

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292630

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/25/19 12:37	10/10/19 20:03	1
Barium	<0.0016		0.010	0.0016	mg/L		09/25/19 12:37	10/10/19 20:03	1
Beryllium	0.000309	J	0.0010	0.00018	mg/L		09/25/19 12:37	10/10/19 20:03	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/25/19 12:37	10/10/19 20:03	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/25/19 12:37	10/10/19 20:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/25/19 12:37	10/10/19 20:03	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/25/19 12:37	10/10/19 20:03	1
Lead	0.000234	J	0.0010	0.00013	mg/L		09/25/19 12:37	10/10/19 20:03	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/25/19 12:37	10/10/19 20:03	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/25/19 12:37	10/10/19 20:03	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/25/19 12:37	10/10/19 20:03	1
Calcium	<0.13		0.50	0.13	mg/L		09/25/19 12:37	10/10/19 20:03	1
Boron	<0.039		0.080	0.039	mg/L		09/25/19 12:37	10/10/19 20:03	1

Lab Sample ID: LCS 180-292630/2-A
Matrix: Water
Analysis Batch: 294723

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.03		mg/L		103	80 - 120
Barium	1.00	1.05		mg/L		105	80 - 120
Beryllium	0.500	0.524		mg/L		105	80 - 120
Cadmium	0.500	0.541		mg/L		108	80 - 120
Cobalt	0.500	0.509		mg/L		102	80 - 120
Chromium	0.500	0.513		mg/L		103	80 - 120
Molybdenum	0.500	0.544		mg/L		109	80 - 120
Lead	0.500	0.531		mg/L		106	80 - 120
Selenium	1.00	1.01		mg/L		101	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-95960-1
SDG: Ash Pond

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

Lab Sample ID: LCS 180-292630/2-A
Matrix: Water
Analysis Batch: 294723

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.524		mg/L		105	80 - 120
Calcium	25.0	25.2		mg/L		101	80 - 120
Boron	1.25	1.10		mg/L		88	80 - 120

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

Lab Sample ID: MB 180-292191/2
Matrix: Water
Analysis Batch: 292191

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/21/19 11:57	1

Lab Sample ID: LCS 180-292191/1
Matrix: Water
Analysis Batch: 292191

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	633	598		mg/L		94	80 - 120

Lab Sample ID: MB 180-292387/2
Matrix: Water
Analysis Batch: 292387

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			09/24/19 10:37	1

Lab Sample ID: LCS 180-292387/1
Matrix: Water
Analysis Batch: 292387

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	633	556		mg/L		88	80 - 120

Lab Sample ID: MB 180-292409/2
Matrix: Water
Analysis Batch: 292409

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			09/24/19 11:55	1

Lab Sample ID: LCS 180-292409/1
Matrix: Water
Analysis Batch: 292409

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	633	610		mg/L		96	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-95960-1
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-444126/23-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444126

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02198	U	0.0850	0.0850	1.00	0.157	pCi/L	09/25/19 11:11	10/18/19 12:48	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	90.1		40 - 110			09/25/19 11:11	10/18/19 12:48	1		

Lab Sample ID: LCS 160-444126/1-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444126

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	9.118		0.984	1.00	0.109	pCi/L	80	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	90.4		40 - 110						

Lab Sample ID: LCSD 160-444126/2-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444126

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.4	10.58		1.12	1.00	0.140	pCi/L	93	75 - 125	0.70	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits			Prepared	Analyzed	Dil Fac			
Ba Carrier	88.4		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-444140/23-A
Matrix: Water
Analysis Batch: 445782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444140

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2824	U	0.246	0.247	1.00	0.394	pCi/L	09/25/19 12:09	10/11/19 08:28	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	90.1		40 - 110			09/25/19 12:09	10/11/19 08:28	1		
Y Carrier	86.7		40 - 110			09/25/19 12:09	10/11/19 08:28	1		

QC Sample Results

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

Job ID: 180-95960-1
 SDG: Ash Pond

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

Lab Sample ID: LCS 160-444140/1-A
Matrix: Water
Analysis Batch: 445862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444140

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.50	10.42		1.18	1.00	0.410	pCi/L	110	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.4		40 - 110
Y Carrier	84.1		40 - 110

Lab Sample ID: LCSD 160-444140/2-A
Matrix: Water
Analysis Batch: 445862

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 444140

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	9.50	9.714		1.12	1.00	0.393	pCi/L	102	75 - 125	0.31	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	88.4		40 - 110
Y Carrier	87.9		40 - 110

QC Association Summary

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

Job ID: 180-95960-1
 SDG: Ash Pond

HPLC/IC

Analysis Batch: 292226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95960-1	WGWA-1	Total/NA	Water	300.0	
180-95960-2	WGWA-2	Total/NA	Water	300.0	
180-95960-3	FB-1 9-17-19	Total/NA	Water	300.0	
180-95960-4	WGWA-18	Total/NA	Water	300.0	
180-95960-5	EB-1 9-17-19	Total/NA	Water	300.0	
180-95960-6	WGWA-4	Total/NA	Water	300.0	
180-95960-7	WGWA-6	Total/NA	Water	300.0	
180-95960-8	WGWA-5	Total/NA	Water	300.0	
MB 180-292226/45	Method Blank	Total/NA	Water	300.0	
LCS 180-292226/44	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 292629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95960-1	WGWA-1	Total Recoverable	Water	3005A	
180-95960-2	WGWA-2	Total Recoverable	Water	3005A	
180-95960-3	FB-1 9-17-19	Total Recoverable	Water	3005A	
180-95960-4	WGWA-18	Total Recoverable	Water	3005A	
180-95960-5	EB-1 9-17-19	Total Recoverable	Water	3005A	
180-95960-6	WGWA-4	Total Recoverable	Water	3005A	
MB 180-292629/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292629/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 292630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95960-7	WGWA-6	Total Recoverable	Water	3005A	
180-95960-8	WGWA-5	Total Recoverable	Water	3005A	
MB 180-292630/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292630/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 293342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95960-1	WGWA-1	Total Recoverable	Water	EPA 6020	292629
180-95960-2	WGWA-2	Total Recoverable	Water	EPA 6020	292629
180-95960-3	FB-1 9-17-19	Total Recoverable	Water	EPA 6020	292629
180-95960-4	WGWA-18	Total Recoverable	Water	EPA 6020	292629
180-95960-5	EB-1 9-17-19	Total Recoverable	Water	EPA 6020	292629
180-95960-6	WGWA-4	Total Recoverable	Water	EPA 6020	292629
MB 180-292629/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292629
LCS 180-292629/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292629

Analysis Batch: 293434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95960-1	WGWA-1	Total Recoverable	Water	EPA 6020	292629
180-95960-2	WGWA-2	Total Recoverable	Water	EPA 6020	292629
180-95960-3	FB-1 9-17-19	Total Recoverable	Water	EPA 6020	292629
180-95960-4	WGWA-18	Total Recoverable	Water	EPA 6020	292629
180-95960-5	EB-1 9-17-19	Total Recoverable	Water	EPA 6020	292629
180-95960-6	WGWA-4	Total Recoverable	Water	EPA 6020	292629
MB 180-292629/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292629

Eurofins TestAmerica, Pittsburgh

QC Association Summary

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

Job ID: 180-95960-1
SDG: Ash Pond

Metals (Continued)

Analysis Batch: 293434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-292629/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292629

Analysis Batch: 294723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95960-7	WGWA-6	Total Recoverable	Water	EPA 6020	292630
180-95960-8	WGWA-5	Total Recoverable	Water	EPA 6020	292630
MB 180-292630/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292630
LCS 180-292630/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292630

General Chemistry

Analysis Batch: 292191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95960-1	WGWA-1	Total/NA	Water	SM 2540C	
180-95960-7	WGWA-6	Total/NA	Water	SM 2540C	
MB 180-292191/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-292191/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 292387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95960-8	WGWA-5	Total/NA	Water	SM 2540C	
MB 180-292387/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-292387/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 292409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95960-2	WGWA-2	Total/NA	Water	SM 2540C	
180-95960-3	FB-1 9-17-19	Total/NA	Water	SM 2540C	
180-95960-4	WGWA-18	Total/NA	Water	SM 2540C	
180-95960-5	EB-1 9-17-19	Total/NA	Water	SM 2540C	
180-95960-6	WGWA-4	Total/NA	Water	SM 2540C	
MB 180-292409/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-292409/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Rad

Prep Batch: 444126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95960-1	WGWA-1	Total/NA	Water	PrecSep-21	
180-95960-2	WGWA-2	Total/NA	Water	PrecSep-21	
180-95960-3	FB-1 9-17-19	Total/NA	Water	PrecSep-21	
180-95960-4	WGWA-18	Total/NA	Water	PrecSep-21	
180-95960-5	EB-1 9-17-19	Total/NA	Water	PrecSep-21	
180-95960-6	WGWA-4	Total/NA	Water	PrecSep-21	
180-95960-7	WGWA-6	Total/NA	Water	PrecSep-21	
180-95960-8	WGWA-5	Total/NA	Water	PrecSep-21	
MB 160-444126/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-444126/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-444126/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

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


Job ID: 180-95960-1
SDG: Ash Pond

Rad

Prep Batch: 444140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95960-1	WGWA-1	Total/NA	Water	PrecSep_0	
180-95960-2	WGWA-2	Total/NA	Water	PrecSep_0	
180-95960-3	FB-1 9-17-19	Total/NA	Water	PrecSep_0	
180-95960-4	WGWA-18	Total/NA	Water	PrecSep_0	
180-95960-5	EB-1 9-17-19	Total/NA	Water	PrecSep_0	
180-95960-6	WGWA-4	Total/NA	Water	PrecSep_0	
180-95960-7	WGWA-6	Total/NA	Water	PrecSep_0	
180-95960-8	WGWA-5	Total/NA	Water	PrecSep_0	
MB 160-444140/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-444140/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-444140/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Chain of Custody Record

Client Information Client Contact: Jojiu Abraham Company: Southern Company Address: PO BOX 26411 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: [blank] Email: jAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Sampler: T. Goble / R. Walker Lab PM: Bertot, Veronica Phone: 770-594-5998 E-Mail: [blank]		Carrier Tracking No(s): Job #:		COC No: Page: Job #:					
Due Date Requested: TAT Requested (days): PO #: SCS10347656 SCS WO #: 40007709 Project #: 40007709 SSOW#:		Analysis Requested Field Filtered Sample (Yes or No) [X] D Perform MS/MSD (Yes or No) [X] N Metals App. III (EPA 6020/470) [X] N Cl, F, SO, & TDS (EPA 300.0 & SM 2540C) [X] N Detected App IV Metals (See list below) [X] N Radium 226 & 228 (SM-846 9315/9320) [X] N		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Special Instructions/Note: APP III Total Number of containers: 3					
Sample Identification WGWA-1 WGWA-2 FB-1 9-17-19 WGWA-18 FB-1 9-17-19 WGWA-4 WGWA-6 WGWA-5		Sample Date 9-16-19 9-17-19 9-17-19 9-17-19 9-17-19 9-17-19 9-16-19 9-16-19		Sample Time 1407 1017 1020 1341 1310 1525 1340 1549		Sample Type (C=Comp, G=grab) G G G G G G G G		Matrix (W=water, S=solid, O=wastewater, LFT=Tissue, A=Air) W W W W W W W W		Preservation Code: W W W W W W W W	
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 mo.) <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 mo.) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		180-95960 Chain of Custody 					
Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date/Time: 9-18-19 1502 9-18-19 1503		Date/Time: 9-18-19 1502 9-19-19 900		Company: Company Company					
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Received by: [Signature] Received by: [Signature] Received by: [Signature]					

Detected APP II: Metals: Arsenic Barium Beryllium Cadmium Chromium Cobalt Lead Lithium Molybdenum Selenium Thallium; Radium Fluoride





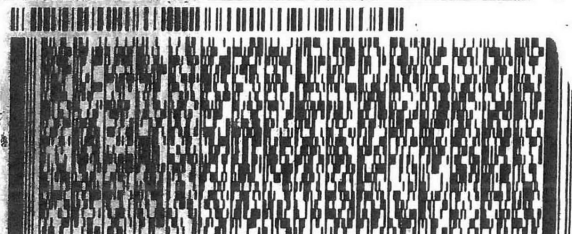
ORIGIN ID:MULA (678) 966-9991
GEORGE TAYLOR
EUROFINSTESTAMERICA, ATLANTA
6500 MCDONOUGH DRIVE

NORCROSS, GA 30093
UNITED STATES US

B.

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PIT
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 969-7068
REF: SOUTHERN CO.



180-95960 Waybill



Handwritten signature

DATE
SIGNATURE



Environment Testing
TestAmerica



3 of 3

MPS# 0263 4651 0083 7191

Metr# 4651 0083 7170 0201

THU - 19 SEP 3:00P
STANDARD OVERNIGHT

NA AGCA

15238
PA-US PIT

Uncorrected temp 1.2 °C
Thermometer ID 10

CF 0 Initials TS

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



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Environment Testing
TestAmerica

Part # 159469-434 RITZ EXP 05/20



Environment Test
America

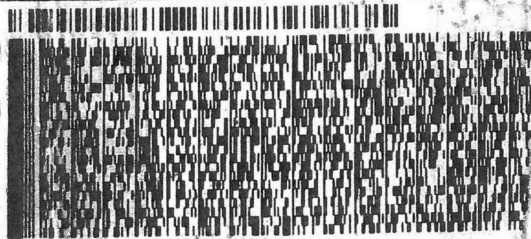
ORIGIN ID:MULA (678) 966-9991
GEORGE TAYLOR
EUROFINSTESTAMERICA, ATLANTA
6500 MCDONOUGH DRIVE

SHIP DATE: 18SEP19
ACTWGT: 56.65 LB
CAD: 859116/CAFE3211

NORCROSS, GA 30093
UNITED STATES US

BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
BIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF: SOUTHERN CO.



19 SEP 3:00P
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2 of 3
MPS# 0263 4651 0083 7180

THU -
STANDAR

Mstr# 4651 0083 7170

0201

15238

PA-US PIT

NA AGCA



Uncorrected temp
Thermometer ID

1.6
10

CF 0

Initials JB

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

NEW YORK
BEST IN ENVIRONMENTAL TESTING
TestAmerica



Environment Testing
TestAmerica

Part # 159489-434 RIT2 EXP 05/20

ORIGIN ID:MULA (678) 966-9991
GEORGE TAYLOR
EUROFINSTESTAMERICA, ATLANTA
6500 MCDONOUGH DRIVE

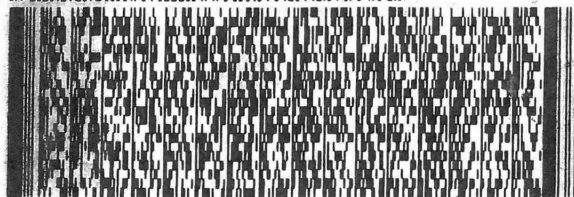
SHIP DATE: 18SEP19
ACTWGT: 56.65 LB
CAD: 859116/CAFE3211

NORCROSS, GA 30093
UNITED STATES US

BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7068
REF: SOUTHERN CO.



FedEx
Express



1 of 3
TRK# 4651 0083 7170
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MASTER

THU - 19 SEP 3:00P
STANDARD OVERNIGHT

NA AGCA

15238
PA-US PIT

Uncorrected temp
Thermometer ID

3.8 °C
10

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

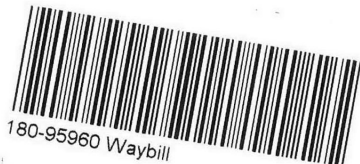


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1129250

eurofins
Environment Testing
TestAmerica

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180-95960 Waybill

FedEx Express

FedEx Saturday 1129279

[Signature]
SIGNATURE

eurofins
Environment Testing
TestAmerica

eurofins

Environment Testing
TestAmerica

IGIN ID:MULA (678) 966-9991
ORGE TAYLOR
UROF INSTA AMERICA, ATLANTA
500 MCDONOUGH DRIVE
DNCROSS, GA 30093
NITED STATES US

SHIP DATE: 20SEP19
ACTWGT: 58.55 LB
CAD: 859116/CAFE3211

BILL RECIPIENT

SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7063
REF: SOUTHERN CO.



FedEx Express
E
REGISTERED BY

TRK# 1 of 5
0201 4651 0083 7630
MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT

X() AGCA

15238
PA-US PIT

Uncorrected temp
Thermometer ID

1.3 °C
10

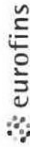
CF 0 Initials B

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

Debbie Watson
Tapitt
9-21-19
9:30

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Chain of Custody Record



Client Information (Sub Contract Lab) Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com State of Origin: Georgia Carrier Tracking No(s): COC No: 180-374219.1 Page: Page 1 of 1 Job #: 180-95960-1									
Due Date Requested: 10/1/2019 TAT Requested (days):		Analysis Requested:									
PO #: _____ WO #: _____ Project #: 18019922 SOW#: _____		Preservation Codes: 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 X - EDTA Y - EDA Z - other (specify) Other:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, BT=TISSUE, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra228/PreSep_21 Standard Target List	9320_Ra228/PreSep_0 Standard Target List	Ra228Ra228_GFP	Total Number of containers	Special Instructions/Note:
WGWA-1 (180-95960-1)	9/16/19	14:07 Eastern	Water	Water	X	X	X	X	X	1	
WGWA-2 (180-95960-2)	9/17/19	10:17 Eastern	Water	Water	X	X	X	X	X	1	
FB-1 9-17-19 (180-95960-3)	9/17/19	10:20 Eastern	Water	Water	X	X	X	X	X	1	
WGWA-18 (180-95960-4)	9/17/19	13:41 Eastern	Water	Water	X	X	X	X	X	1	
EB-1 9-17-19 (180-95960-5)	9/17/19	13:10 Eastern	Water	Water	X	X	X	X	X	1	
WGWA-4 (180-95960-6)	9/17/19	15:25 Eastern	Water	Water	X	X	X	X	X	1	
WGWA-6 (180-95960-7)	9/16/19	13:40 Eastern	Water	Water	X	X	X	X	X	1	
WGWA-5 (180-95960-8)	9/16/19	15:49 Eastern	Water	Water	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.											
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: 9/25/19 17:00 Relinquished by: _____ Date/Time: 9/25/19 09:20 Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks:											



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95960-1

SDG Number: Ash Pond

Login Number: 95960

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: 180-95960-1

SDG Number: Ash Pond

Login Number: 95960

List Number: 2

Creator: Watson, Debbie

List Source: Eurofins TestAmerica, Pittsburgh

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.	False	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time (excluding tests with immediate HTs)	N/A	
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: 180-95960-1

SDG Number: Ash Pond

Login Number: 95960

List Number: 3

Creator: Harris, Lorin C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 09/24/19 04:36 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	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: 180-96048-1

Laboratory Sample Delivery Group: Ash Pond
Client Project/Site: CCR - Plant Wansley

For:

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

Attn: Joju Abraham



Authorized for release by:
11/6/2019 10:19:53 AM

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

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

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

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	13
QC Sample Results	23
QC Association Summary	27
Chain of Custody	30
Receipt Checklists	40

Case Narrative

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

Job ID: 180-96048-1
SDG: Ash Pond

Job ID: 180-96048-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative
180-96048-1

Comments

No additional comments.

Receipt

The samples were received on 9/21/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.9° C and 4.3° C.

GC Semi VOA

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

Metals

Method 6020: The matrix spike duplicate (MSD) recovery for 292939 was outside control limits for barium. 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.

General Chemistry

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



Definitions/Glossary

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

Job ID: 180-96048-1
SDG: Ash Pond

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
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

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

Job ID: 180-96048-1
 SDG: Ash Pond

Laboratory: Eurofins TestAmerica, Pittsburgh

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

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

Sample Summary

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

Job ID: 180-96048-1
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-96048-1	WGWA-3	Water	09/18/19 10:34	09/21/19 09:30	
180-96048-2	WGWA-7	Water	09/18/19 11:46	09/21/19 09:30	
180-96048-3	WGWC-8	Water	09/19/19 10:45	09/21/19 09:30	
180-96048-4	WGWC-9	Water	09/19/19 13:52	09/21/19 09:30	
180-96048-5	WGWC-10	Water	09/19/19 12:25	09/21/19 09:30	
180-96048-6	WGWC-11	Water	09/19/19 13:25	09/21/19 09:30	
180-96048-7	WGWC-12	Water	09/19/19 10:31	09/21/19 09:30	
180-96048-8	WGWC-13	Water	09/18/19 12:25	09/21/19 09:30	
180-96048-9	WGWC-14A	Water	09/18/19 13:35	09/21/19 09:30	
180-96048-10	WGWC-15	Water	09/18/19 14:27	09/21/19 09:30	
180-96048-11	WGWC-16	Water	09/18/19 13:06	09/21/19 09:30	
180-96048-12	WGWC-17	Water	09/18/19 11:20	09/21/19 09:30	
180-96048-13	WGWC-19	Water	09/18/19 12:05	09/21/19 09:30	
180-96048-14	EB-2 9-19-19	Water	09/19/19 09:30	09/21/19 09:30	
180-96048-15	FB-2 9-19-19	Water	09/19/19 10:35	09/21/19 09:30	
180-96048-16	DUP-1	Water	09/18/19 00:00	09/21/19 09:30	
180-96048-17	DUP-2	Water	09/19/19 00:00	09/21/19 09:30	

Method Summary

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

Job ID: 180-96048-1
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

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

Job ID: 180-96048-1
SDG: Ash Pond

Client Sample ID: WGWA-3

Lab Sample ID: 180-96048-1

Date Collected: 09/18/19 10:34

Matrix: Water

Date Received: 09/21/19 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			293917	10/07/19 06:47	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295123	10/16/19 00:51	WTR	TAL PIT
Instrument ID: M										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292416	09/24/19 12:03	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Lab Sample ID: 180-96048-2

Date Collected: 09/18/19 11:46

Matrix: Water

Date Received: 09/21/19 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			293917	10/07/19 07:02	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295123	10/16/19 00:56	WTR	TAL PIT
Instrument ID: M										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292416	09/24/19 12:03	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8

Lab Sample ID: 180-96048-3

Date Collected: 09/19/19 10:45

Matrix: Water

Date Received: 09/21/19 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			293917	10/07/19 07:18	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		5			293917	10/07/19 09:51	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295123	10/16/19 01:01	WTR	TAL PIT
Instrument ID: M										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292771	09/26/19 11:28	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-9

Lab Sample ID: 180-96048-4

Date Collected: 09/19/19 13:52

Matrix: Water

Date Received: 09/21/19 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			293917	10/07/19 07:33	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295123	10/16/19 01:06	WTR	TAL PIT
Instrument ID: M										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-96048-1
SDG: Ash Pond

Client Sample ID: WGWC-9

Lab Sample ID: 180-96048-4

Date Collected: 09/19/19 13:52

Matrix: Water

Date Received: 09/21/19 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	SM 2540C		1	100 mL	100 mL	292771	09/26/19 11:28	AVS	TAL PIT

Client Sample ID: WGWC-10

Lab Sample ID: 180-96048-5

Date Collected: 09/19/19 12:25

Matrix: Water

Date Received: 09/21/19 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 Instrument ID: CHIC2100A		1	1 mL	1.0 mL	293917	10/07/19 08:19	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 01:10	WTR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	292771	09/26/19 11:28	AVS	TAL PIT

Client Sample ID: WGWC-11

Lab Sample ID: 180-96048-6

Date Collected: 09/19/19 13:25

Matrix: Water

Date Received: 09/21/19 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 Instrument ID: CHIC2100A		1	1 mL	1.0 mL	293917	10/07/19 08:35	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 01:15	WTR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	292771	09/26/19 11:28	AVS	TAL PIT

Client Sample ID: WGWC-12

Lab Sample ID: 180-96048-7

Date Collected: 09/19/19 10:31

Matrix: Water

Date Received: 09/21/19 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 Instrument ID: CHIC2100A		1			293917	10/07/19 10:07	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: M		1			295123	10/16/19 01:20	WTR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	292771	09/26/19 11:28	AVS	TAL PIT

Lab Chronicle

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

Job ID: 180-96048-1
SDG: Ash Pond

Client Sample ID: WGWC-13

Lab Sample ID: 180-96048-8

Date Collected: 09/18/19 12:25

Matrix: Water

Date Received: 09/21/19 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			293917	10/07/19 10:22	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295123	10/16/19 01:25	WTR	TAL PIT
Instrument ID: M										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292416	09/24/19 12:03	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-14A

Lab Sample ID: 180-96048-9

Date Collected: 09/18/19 13:35

Matrix: Water

Date Received: 09/21/19 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			293917	10/07/19 10:37	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295123	10/16/19 01:39	WTR	TAL PIT
Instrument ID: M										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292416	09/24/19 12:03	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Lab Sample ID: 180-96048-10

Date Collected: 09/18/19 14:27

Matrix: Water

Date Received: 09/21/19 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			293917	10/07/19 10:53	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295123	10/16/19 01:44	WTR	TAL PIT
Instrument ID: M										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292416	09/24/19 12:03	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-16

Lab Sample ID: 180-96048-11

Date Collected: 09/18/19 13:06

Matrix: Water

Date Received: 09/21/19 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			293917	10/07/19 11:08	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295123	10/16/19 01:48	WTR	TAL PIT
Instrument ID: M										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292416	09/24/19 12:03	AVS	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-96048-1
SDG: Ash Pond

Client Sample ID: WGWC-17

Lab Sample ID: 180-96048-12

Date Collected: 09/18/19 11:20

Matrix: Water

Date Received: 09/21/19 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			293917	10/07/19 11:39	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292939	09/27/19 10:01	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295123	10/16/19 01:53	WTR	TAL PIT
Instrument ID: M										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292416	09/24/19 12:03	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-19

Lab Sample ID: 180-96048-13

Date Collected: 09/18/19 12:05

Matrix: Water

Date Received: 09/21/19 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			293917	10/07/19 12:25	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292942	09/27/19 10:04	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 18:52	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292416	09/24/19 12:03	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-2 9-19-19

Lab Sample ID: 180-96048-14

Date Collected: 09/19/19 09:30

Matrix: Water

Date Received: 09/21/19 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			293917	10/07/19 09:21	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292942	09/27/19 10:04	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 18:56	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292771	09/26/19 11:28	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-2 9-19-19

Lab Sample ID: 180-96048-15

Date Collected: 09/19/19 10:35

Matrix: Water

Date Received: 09/21/19 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			293917	10/07/19 09:36	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292942	09/27/19 10:04	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 18:59	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292771	09/26/19 11:28	AVS	TAL PIT
Instrument ID: NOEQUIP										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-96048-1
 SDG: Ash Pond

Client Sample ID: DUP-1

Date Collected: 09/18/19 00:00

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-16

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	300.0		1			293917	10/07/19 13:12	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292942	09/27/19 10:04	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 19:02	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292416	09/24/19 12:03	AVS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-2

Date Collected: 09/19/19 00:00

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			293917	10/07/19 13:28	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292942	09/27/19 10:04	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			295459	10/18/19 19:06	RSK	TAL PIT
Instrument ID: A										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	292771	09/26/19 11:28	AVS	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

Batch Type: Analysis

AVS = Abbey Smith

MJH = Matthew Hartman

RSK = Robert Kurtz

WTR = Bill Reinheimer

Client Sample Results

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

Job ID: 180-96048-1
SDG: Ash Pond

Client Sample ID: WGWA-3

Lab Sample ID: 180-96048-1

Date Collected: 09/18/19 10:34

Matrix: Water

Date Received: 09/21/19 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			10/07/19 06:47	1
Fluoride	0.033	J	0.20	0.026	mg/L			10/07/19 06:47	1
Sulfate	0.78	J	1.0	0.38	mg/L			10/07/19 06:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:51	1
Barium	0.013		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:51	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:51	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:51	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:51	1
Calcium	1.6		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:51	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:51	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:51	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:51	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:51	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:51	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		10	10	mg/L			09/24/19 12:03	1

Client Sample ID: WGWA-7

Lab Sample ID: 180-96048-2

Date Collected: 09/18/19 11:46

Matrix: Water

Date Received: 09/21/19 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.71	mg/L			10/07/19 07:02	1
Fluoride	0.027	J	0.20	0.026	mg/L			10/07/19 07:02	1
Sulfate	<0.38		1.0	0.38	mg/L			10/07/19 07:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 00:56	1
Barium	0.012		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 00:56	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 00:56	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 00:56	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:56	1
Calcium	1.5		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 00:56	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 00:56	1
Cobalt	0.00020	J	0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 00:56	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 00:56	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 00:56	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 00:56	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 00:56	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 00:56	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-96048-1
SDG: Ash Pond

Client Sample ID: WGWA-7
Date Collected: 09/18/19 11:46
Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	35		10	10	mg/L			09/24/19 12:03	1

Client Sample ID: WGWC-8
Date Collected: 09/19/19 10:45
Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-3
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70		1.0	0.71	mg/L			10/07/19 07:18	1
Fluoride	0.42		0.20	0.026	mg/L			10/07/19 07:18	1
Sulfate	190		5.0	1.9	mg/L			10/07/19 09:51	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00032	J	0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 01:01	1
Barium	<0.0016		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 01:01	1
Beryllium	0.0019		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 01:01	1
Boron	1.7		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 01:01	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:01	1
Calcium	57		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 01:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 01:01	1
Cobalt	0.0028		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 01:01	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:01	1
Lithium	0.014		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 01:01	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 01:01	1
Selenium	0.0021	J	0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 01:01	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 01:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	440		10	10	mg/L			09/26/19 11:28	1

Client Sample ID: WGWC-9
Date Collected: 09/19/19 13:52
Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-4
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			10/07/19 07:33	1
Fluoride	1.3		0.20	0.026	mg/L			10/07/19 07:33	1
Sulfate	42		1.0	0.38	mg/L			10/07/19 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 01:06	1
Barium	0.0018	J	0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 01:06	1
Beryllium	0.00041	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 01:06	1
Boron	0.39		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 01:06	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:06	1
Calcium	8.1		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 01:06	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 01:06	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-96048-1
SDG: Ash Pond

Client Sample ID: WGWC-9

Lab Sample ID: 180-96048-4

Date Collected: 09/19/19 13:52

Matrix: Water

Date Received: 09/21/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 01:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:06	1
Lithium	0.036		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 01:06	1
Molybdenum	0.0048	J	0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 01:06	1
Selenium	0.0026	J	0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 01:06	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 01:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			09/26/19 11:28	1

Client Sample ID: WGWC-10

Lab Sample ID: 180-96048-5

Date Collected: 09/19/19 12:25

Matrix: Water

Date Received: 09/21/19 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			10/07/19 08:19	1
Fluoride	0.13	J	0.20	0.026	mg/L			10/07/19 08:19	1
Sulfate	2.1		1.0	0.38	mg/L			10/07/19 08:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00038	J	0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 01:10	1
Barium	0.038		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 01:10	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 01:10	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 01:10	1
Cadmium	0.00021	J	0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:10	1
Calcium	7.5		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 01:10	1
Chromium	0.0022		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 01:10	1
Cobalt	0.0023		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 01:10	1
Lead	0.00041	J	0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:10	1
Lithium	0.0075		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 01:10	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 01:10	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 01:10	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 01:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	52		10	10	mg/L			09/26/19 11:28	1

Client Sample ID: WGWC-11

Lab Sample ID: 180-96048-6

Date Collected: 09/19/19 13:25

Matrix: Water

Date Received: 09/21/19 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2		1.0	0.71	mg/L			10/07/19 08:35	1
Fluoride	0.037	J	0.20	0.026	mg/L			10/07/19 08:35	1
Sulfate	1.3		1.0	0.38	mg/L			10/07/19 08:35	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-96048-1
SDG: Ash Pond

Client Sample ID: WGWC-11

Lab Sample ID: 180-96048-6

Date Collected: 09/19/19 13:25

Matrix: Water

Date Received: 09/21/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 01:15	1
Barium	0.033		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 01:15	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 01:15	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 01:15	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:15	1
Calcium	1.4		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 01:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 01:15	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 01:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:15	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 01:15	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 01:15	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 01:15	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 01:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	27		10	10	mg/L			09/26/19 11:28	1

Client Sample ID: WGWC-12

Lab Sample ID: 180-96048-7

Date Collected: 09/19/19 10:31

Matrix: Water

Date Received: 09/21/19 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2		1.0	0.71	mg/L			10/07/19 10:07	1
Fluoride	0.093	J	0.20	0.026	mg/L			10/07/19 10:07	1
Sulfate	14		1.0	0.38	mg/L			10/07/19 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 01:20	1
Barium	0.016		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 01:20	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 01:20	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 01:20	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:20	1
Calcium	14		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 01:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 01:20	1
Cobalt	0.00028	J	0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 01:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:20	1
Lithium	0.0067		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 01:20	1
Molybdenum	0.00073	J	0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 01:20	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 01:20	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 01:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	89		10	10	mg/L			09/26/19 11:28	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-96048-1
SDG: Ash Pond

Client Sample ID: WGWC-13

Lab Sample ID: 180-96048-8

Date Collected: 09/18/19 12:25

Matrix: Water

Date Received: 09/21/19 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			10/07/19 10:22	1
Fluoride	0.22		0.20	0.026	mg/L			10/07/19 10:22	1
Sulfate	3.9		1.0	0.38	mg/L			10/07/19 10:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00039	J	0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 01:25	1
Barium	0.062		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 01:25	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 01:25	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 01:25	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:25	1
Calcium	4.9		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 01:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 01:25	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 01:25	1
Lead	0.00045	J	0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:25	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 01:25	1
Molybdenum	0.0021	J	0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 01:25	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 01:25	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 01:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			09/24/19 12:03	1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-96048-9

Date Collected: 09/18/19 13:35

Matrix: Water

Date Received: 09/21/19 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.2		1.0	0.71	mg/L			10/07/19 10:37	1
Fluoride	0.035	J	0.20	0.026	mg/L			10/07/19 10:37	1
Sulfate	1.7		1.0	0.38	mg/L			10/07/19 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 01:39	1
Barium	0.025		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 01:39	1
Beryllium	0.00032	J	0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 01:39	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 01:39	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:39	1
Calcium	0.85		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 01:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 01:39	1
Cobalt	0.0050		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 01:39	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:39	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 01:39	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 01:39	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 01:39	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 01:39	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-96048-1
SDG: Ash Pond

Client Sample ID: WGWC-14A

Lab Sample ID: 180-96048-9

Date Collected: 09/18/19 13:35

Matrix: Water

Date Received: 09/21/19 09:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	33		10	10	mg/L			09/24/19 12:03	1

Client Sample ID: WGWC-15

Lab Sample ID: 180-96048-10

Date Collected: 09/18/19 14:27

Matrix: Water

Date Received: 09/21/19 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2		1.0	0.71	mg/L			10/07/19 10:53	1
Fluoride	0.81		0.20	0.026	mg/L			10/07/19 10:53	1
Sulfate	37		1.0	0.38	mg/L			10/07/19 10:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0016		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 01:44	1
Barium	0.026		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 01:44	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 01:44	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 01:44	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:44	1
Calcium	31		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 01:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 01:44	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 01:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:44	1
Lithium	0.0054		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 01:44	1
Molybdenum	0.0052		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 01:44	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 01:44	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 01:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		10	10	mg/L			09/24/19 12:03	1

Client Sample ID: WGWC-16

Lab Sample ID: 180-96048-11

Date Collected: 09/18/19 13:06

Matrix: Water

Date Received: 09/21/19 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		1.0	0.71	mg/L			10/07/19 11:08	1
Fluoride	0.058	J	0.20	0.026	mg/L			10/07/19 11:08	1
Sulfate	130		1.0	0.38	mg/L			10/07/19 11:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 01:48	1
Barium	0.032		0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 01:48	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 01:48	1
Boron	2.1		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 01:48	1
Cadmium	0.00017	J	0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:48	1
Calcium	62		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 01:48	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 01:48	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-96048-1
SDG: Ash Pond

Client Sample ID: WGWC-16

Lab Sample ID: 180-96048-11

Date Collected: 09/18/19 13:06

Matrix: Water

Date Received: 09/21/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.00011	J	0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 01:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:48	1
Lithium	0.0056		0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 01:48	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 01:48	1
Selenium	0.0044	J	0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 01:48	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 01:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	520		10	10	mg/L			09/24/19 12:03	1

Client Sample ID: WGWC-17

Lab Sample ID: 180-96048-12

Date Collected: 09/18/19 11:20

Matrix: Water

Date Received: 09/21/19 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			10/07/19 11:39	1
Fluoride	0.066	J	0.20	0.026	mg/L			10/07/19 11:39	1
Sulfate	7.3		1.0	0.38	mg/L			10/07/19 11:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/16/19 01:53	1
Barium	0.011	F1	0.010	0.0016	mg/L		09/27/19 10:01	10/16/19 01:53	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/16/19 01:53	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:01	10/16/19 01:53	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:53	1
Calcium	5.5		0.50	0.13	mg/L		09/27/19 10:01	10/16/19 01:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/16/19 01:53	1
Cobalt	0.00018	J	0.00050	0.000075	mg/L		09/27/19 10:01	10/16/19 01:53	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/16/19 01:53	1
Lithium	0.0047	J	0.0050	0.0034	mg/L		09/27/19 10:01	10/16/19 01:53	1
Molybdenum	0.0026	J	0.0050	0.00061	mg/L		09/27/19 10:01	10/16/19 01:53	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/16/19 01:53	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/16/19 01:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	79		10	10	mg/L			09/24/19 12:03	1

Client Sample ID: WGWC-19

Lab Sample ID: 180-96048-13

Date Collected: 09/18/19 12:05

Matrix: Water

Date Received: 09/21/19 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.71	mg/L			10/07/19 12:25	1
Fluoride	0.32		0.20	0.026	mg/L			10/07/19 12:25	1
Sulfate	3.6		1.0	0.38	mg/L			10/07/19 12:25	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-96048-1
SDG: Ash Pond

Client Sample ID: WGWC-19

Lab Sample ID: 180-96048-13

Date Collected: 09/18/19 12:05

Matrix: Water

Date Received: 09/21/19 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:04	10/18/19 18:52	1
Barium	<0.0016		0.010	0.0016	mg/L		09/27/19 10:04	10/18/19 18:52	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:04	10/18/19 18:52	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:04	10/18/19 18:52	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:04	10/18/19 18:52	1
Calcium	8.8		0.50	0.13	mg/L		09/27/19 10:04	10/18/19 18:52	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:04	10/18/19 18:52	1
Cobalt	0.00045	J	0.00050	0.000075	mg/L		09/27/19 10:04	10/18/19 18:52	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:04	10/18/19 18:52	1
Lithium	0.052		0.0050	0.0034	mg/L		09/27/19 10:04	10/18/19 18:52	1
Molybdenum	0.0011	J	0.0050	0.00061	mg/L		09/27/19 10:04	10/18/19 18:52	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:04	10/18/19 18:52	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:04	10/18/19 18:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	96		10	10	mg/L			09/24/19 12:03	1

Client Sample ID: EB-2 9-19-19

Lab Sample ID: 180-96048-14

Date Collected: 09/19/19 09:30

Matrix: Water

Date Received: 09/21/19 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/07/19 09:21	1
Fluoride	0.029	J	0.20	0.026	mg/L			10/07/19 09:21	1
Sulfate	<0.38		1.0	0.38	mg/L			10/07/19 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:04	10/18/19 18:56	1
Barium	<0.0016		0.010	0.0016	mg/L		09/27/19 10:04	10/18/19 18:56	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:04	10/18/19 18:56	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:04	10/18/19 18:56	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:04	10/18/19 18:56	1
Calcium	<0.13		0.50	0.13	mg/L		09/27/19 10:04	10/18/19 18:56	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:04	10/18/19 18:56	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:04	10/18/19 18:56	1
Lead	0.00015	J	0.0010	0.00013	mg/L		09/27/19 10:04	10/18/19 18:56	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:04	10/18/19 18:56	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:04	10/18/19 18:56	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:04	10/18/19 18:56	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:04	10/18/19 18:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/26/19 11:28	1

Client Sample Results

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

Job ID: 180-96048-1
SDG: Ash Pond

Client Sample ID: FB-2 9-19-19

Lab Sample ID: 180-96048-15

Date Collected: 09/19/19 10:35

Matrix: Water

Date Received: 09/21/19 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/07/19 09:36	1
Fluoride	0.027	J	0.20	0.026	mg/L			10/07/19 09:36	1
Sulfate	<0.38		1.0	0.38	mg/L			10/07/19 09:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:04	10/18/19 18:59	1
Barium	<0.0016		0.010	0.0016	mg/L		09/27/19 10:04	10/18/19 18:59	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:04	10/18/19 18:59	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:04	10/18/19 18:59	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:04	10/18/19 18:59	1
Calcium	<0.13		0.50	0.13	mg/L		09/27/19 10:04	10/18/19 18:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:04	10/18/19 18:59	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:04	10/18/19 18:59	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:04	10/18/19 18:59	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:04	10/18/19 18:59	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:04	10/18/19 18:59	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:04	10/18/19 18:59	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:04	10/18/19 18:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/26/19 11:28	1

Client Sample ID: DUP-1

Lab Sample ID: 180-96048-16

Date Collected: 09/18/19 00:00

Matrix: Water

Date Received: 09/21/19 09:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.71	mg/L			10/07/19 13:12	1
Fluoride	0.038	J	0.20	0.026	mg/L			10/07/19 13:12	1
Sulfate	0.96	J	1.0	0.38	mg/L			10/07/19 13:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:04	10/18/19 19:02	1
Barium	0.014		0.010	0.0016	mg/L		09/27/19 10:04	10/18/19 19:02	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:04	10/18/19 19:02	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:04	10/18/19 19:02	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:04	10/18/19 19:02	1
Calcium	1.7		0.50	0.13	mg/L		09/27/19 10:04	10/18/19 19:02	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:04	10/18/19 19:02	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:04	10/18/19 19:02	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:04	10/18/19 19:02	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:04	10/18/19 19:02	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:04	10/18/19 19:02	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:04	10/18/19 19:02	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:04	10/18/19 19:02	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-96048-1
SDG: Ash Pond

Client Sample ID: DUP-1
Date Collected: 09/18/19 00:00
Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-16
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	55		10	10	mg/L			09/24/19 12:03	1

Client Sample ID: DUP-2
Date Collected: 09/19/19 00:00
Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-17
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1		1.0	0.71	mg/L			10/07/19 13:28	1
Fluoride	0.086	J	0.20	0.026	mg/L			10/07/19 13:28	1
Sulfate	13		1.0	0.38	mg/L			10/07/19 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:04	10/18/19 19:06	1
Barium	0.014		0.010	0.0016	mg/L		09/27/19 10:04	10/18/19 19:06	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:04	10/18/19 19:06	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:04	10/18/19 19:06	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:04	10/18/19 19:06	1
Calcium	13		0.50	0.13	mg/L		09/27/19 10:04	10/18/19 19:06	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:04	10/18/19 19:06	1
Cobalt	0.00036	J	0.00050	0.000075	mg/L		09/27/19 10:04	10/18/19 19:06	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:04	10/18/19 19:06	1
Lithium	0.0061		0.0050	0.0034	mg/L		09/27/19 10:04	10/18/19 19:06	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:04	10/18/19 19:06	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:04	10/18/19 19:06	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:04	10/18/19 19:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	97		10	10	mg/L			09/26/19 11:28	1

QC Sample Results

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

Job ID: 180-96048-1
SDG: Ash Pond

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-293917/6
Matrix: Water
Analysis Batch: 293917

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			10/07/19 06:00	1
Fluoride	<0.026		0.20	0.026	mg/L			10/07/19 06:00	1
Sulfate	<0.38		1.0	0.38	mg/L			10/07/19 06:00	1

Lab Sample ID: LCS 180-293917/5
Matrix: Water
Analysis Batch: 293917

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.0		mg/L		100	90 - 110
Fluoride	1.25	1.30		mg/L		104	90 - 110
Sulfate	25.0	25.1		mg/L		100	90 - 110

Lab Sample ID: 180-96048-4 MS
Matrix: Water
Analysis Batch: 293917

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	1.5		25.0	27.2		mg/L		103	80 - 120
Fluoride	1.3		1.25	2.57		mg/L		99	80 - 120
Sulfate	42		25.0	65.7		mg/L		94	80 - 120

Lab Sample ID: 180-96048-4 MSD
Matrix: Water
Analysis Batch: 293917

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	1.5		25.0	26.6		mg/L		100	80 - 120	2	20
Fluoride	1.3		1.25	2.48		mg/L		92	80 - 120	3	20
Sulfate	42		25.0	63.9		mg/L		87	80 - 120	3	20

Lab Sample ID: 180-96048-13 MS
Matrix: Water
Analysis Batch: 293917

Client Sample ID: WGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.7		25.0	28.0		mg/L		101	80 - 120
Fluoride	0.32		1.25	1.65		mg/L		106	80 - 120
Sulfate	3.6		25.0	28.3		mg/L		99	80 - 120

Lab Sample ID: 180-96048-13 MSD
Matrix: Water
Analysis Batch: 293917

Client Sample ID: WGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.7		25.0	27.8		mg/L		100	80 - 120	1	20
Fluoride	0.32		1.25	1.60		mg/L		102	80 - 120	3	20
Sulfate	3.6		25.0	28.1		mg/L		98	80 - 120	1	20

QC Sample Results

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

Job ID: 180-96048-1
SDG: Ash Pond

Method: EPA 6020 - Metals (ICP/MS)

Lab Sample ID: MB 180-292939/1-A
Matrix: Water
Analysis Batch: 295123

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:01	10/15/19 23:54	1
Barium	<0.0016		0.010	0.0016	mg/L		09/27/19 10:01	10/15/19 23:54	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:01	10/15/19 23:54	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:01	10/15/19 23:54	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/15/19 23:54	1
Calcium	<0.13		0.50	0.13	mg/L		09/27/19 10:01	10/15/19 23:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:01	10/15/19 23:54	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:01	10/15/19 23:54	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:01	10/15/19 23:54	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:01	10/15/19 23:54	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:01	10/15/19 23:54	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:01	10/15/19 23:54	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:01	10/15/19 23:54	1

Lab Sample ID: LCS 180-292939/2-A
Matrix: Water
Analysis Batch: 295123

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.866		mg/L		87	80 - 120
Barium	1.00	0.816		mg/L		82	80 - 120
Beryllium	0.500	0.482		mg/L		96	80 - 120
Boron	1.25	1.28		mg/L		102	80 - 120
Cadmium	0.500	0.437		mg/L		87	80 - 120
Calcium	25.0	25.5		mg/L		102	80 - 120
Chromium	0.500	0.453		mg/L		91	80 - 120
Cobalt	0.500	0.443		mg/L		89	80 - 120
Lead	0.500	0.427		mg/L		85	80 - 120
Lithium	0.500	0.442		mg/L		88	80 - 120
Molybdenum	0.500	0.436		mg/L		87	80 - 120
Selenium	1.00	0.842		mg/L		84	80 - 120
Thallium	1.00	0.849		mg/L		85	80 - 120

Lab Sample ID: 180-96048-12 MS
Matrix: Water
Analysis Batch: 295123

Client Sample ID: WGWC-17
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.00032		1.00	0.838		mg/L		84	75 - 125
Barium	0.011	F1	1.00	0.823		mg/L		81	75 - 125
Beryllium	<0.00018		0.500	0.468		mg/L		94	75 - 125
Boron	<0.039		1.25	1.25		mg/L		100	75 - 125
Cadmium	<0.00013		0.500	0.465		mg/L		93	75 - 125
Calcium	5.5		25.0	30.0		mg/L		98	75 - 125
Chromium	<0.0015		0.500	0.432		mg/L		86	75 - 125
Cobalt	0.00018	J	0.500	0.429		mg/L		86	75 - 125
Lead	<0.00013		0.500	0.435		mg/L		87	75 - 125
Lithium	0.0047	J	0.500	0.433		mg/L		86	75 - 125
Molybdenum	0.0026	J	0.500	0.451		mg/L		90	75 - 125

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-96048-1
SDG: Ash Pond

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

Lab Sample ID: 180-96048-12 MS
Matrix: Water
Analysis Batch: 295123

Client Sample ID: WGWC-17
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	<0.0015		1.00	0.812		mg/L		81	75 - 125
Thallium	<0.00015		1.00	0.864		mg/L		86	75 - 125

Lab Sample ID: 180-96048-12 MSD
Matrix: Water
Analysis Batch: 295123

Client Sample ID: WGWC-17
Prep Type: Total Recoverable
Prep Batch: 292939

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.00032		1.00	0.774		mg/L		77	75 - 125	8	20
Barium	0.011	F1	1.00	0.749	F1	mg/L		74	75 - 125	9	20
Beryllium	<0.00018		0.500	0.436		mg/L		87	75 - 125	7	20
Boron	<0.039		1.25	1.24		mg/L		99	75 - 125	1	20
Cadmium	<0.00013		0.500	0.423		mg/L		85	75 - 125	9	20
Calcium	5.5		25.0	29.1		mg/L		94	75 - 125	3	20
Chromium	<0.0015		0.500	0.402		mg/L		80	75 - 125	7	20
Cobalt	0.00018	J	0.500	0.397		mg/L		79	75 - 125	8	20
Lead	<0.00013		0.500	0.401		mg/L		80	75 - 125	8	20
Lithium	0.0047	J	0.500	0.404		mg/L		80	75 - 125	7	20
Molybdenum	0.0026	J	0.500	0.414		mg/L		82	75 - 125	9	20
Selenium	<0.0015		1.00	0.761		mg/L		76	75 - 125	7	20
Thallium	<0.00015		1.00	0.794		mg/L		79	75 - 125	8	20

Lab Sample ID: MB 180-292942/1-A
Matrix: Water
Analysis Batch: 295459

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 292942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00032		0.0010	0.00032	mg/L		09/27/19 10:04	10/18/19 18:32	1
Barium	<0.0016		0.010	0.0016	mg/L		09/27/19 10:04	10/18/19 18:32	1
Beryllium	<0.00018		0.0010	0.00018	mg/L		09/27/19 10:04	10/18/19 18:32	1
Boron	<0.039		0.080	0.039	mg/L		09/27/19 10:04	10/18/19 18:32	1
Cadmium	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:04	10/18/19 18:32	1
Calcium	<0.13		0.50	0.13	mg/L		09/27/19 10:04	10/18/19 18:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		09/27/19 10:04	10/18/19 18:32	1
Cobalt	<0.000075		0.00050	0.000075	mg/L		09/27/19 10:04	10/18/19 18:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/27/19 10:04	10/18/19 18:32	1
Lithium	<0.0034		0.0050	0.0034	mg/L		09/27/19 10:04	10/18/19 18:32	1
Molybdenum	<0.00061		0.0050	0.00061	mg/L		09/27/19 10:04	10/18/19 18:32	1
Selenium	<0.0015		0.0050	0.0015	mg/L		09/27/19 10:04	10/18/19 18:32	1
Thallium	<0.00015		0.0010	0.00015	mg/L		09/27/19 10:04	10/18/19 18:32	1

Lab Sample ID: LCS 180-292942/2-A
Matrix: Water
Analysis Batch: 295459

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	1.00	0.812		mg/L		81	80 - 120
Beryllium	0.500	0.409		mg/L		82	80 - 120
Boron	1.25	1.19		mg/L		95	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

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

Job ID: 180-96048-1
SDG: Ash Pond

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

Lab Sample ID: LCS 180-292942/2-A
Matrix: Water
Analysis Batch: 295459

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.500	0.424		mg/L		85	80 - 120
Calcium	25.0	24.7		mg/L		99	80 - 120
Chromium	0.500	0.402		mg/L		80	80 - 120
Cobalt	0.500	0.426		mg/L		85	80 - 120
Lead	0.500	0.409		mg/L		82	80 - 120
Molybdenum	0.500	0.405		mg/L		81	80 - 120
Selenium	1.00	0.817		mg/L		82	80 - 120
Thallium	1.00	0.824		mg/L		82	80 - 120

Lab Sample ID: LCS 180-292942/2-A
Matrix: Water
Analysis Batch: 295479

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 292942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.967		mg/L		97	80 - 120
Lithium	0.500	0.511		mg/L		102	80 - 120

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

Lab Sample ID: MB 180-292416/2
Matrix: Water
Analysis Batch: 292416

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			09/24/19 12:03	1

Lab Sample ID: LCS 180-292416/1
Matrix: Water
Analysis Batch: 292416

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	633	614		mg/L		97	80 - 120

Lab Sample ID: MB 180-292771/2
Matrix: Water
Analysis Batch: 292771

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			09/26/19 11:28	1

Lab Sample ID: LCS 180-292771/1
Matrix: Water
Analysis Batch: 292771

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	633	604		mg/L		95	80 - 120

QC Association Summary

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

Job ID: 180-96048-1
SDG: Ash Pond

HPLC/IC

Analysis Batch: 293917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96048-1	WGWA-3	Total/NA	Water	300.0	
180-96048-2	WGWA-7	Total/NA	Water	300.0	
180-96048-3	WGWC-8	Total/NA	Water	300.0	
180-96048-3	WGWC-8	Total/NA	Water	300.0	
180-96048-4	WGWC-9	Total/NA	Water	300.0	
180-96048-5	WGWC-10	Total/NA	Water	300.0	
180-96048-6	WGWC-11	Total/NA	Water	300.0	
180-96048-7	WGWC-12	Total/NA	Water	300.0	
180-96048-8	WGWC-13	Total/NA	Water	300.0	
180-96048-9	WGWC-14A	Total/NA	Water	300.0	
180-96048-10	WGWC-15	Total/NA	Water	300.0	
180-96048-11	WGWC-16	Total/NA	Water	300.0	
180-96048-12	WGWC-17	Total/NA	Water	300.0	
180-96048-13	WGWC-19	Total/NA	Water	300.0	
180-96048-14	EB-2 9-19-19	Total/NA	Water	300.0	
180-96048-15	FB-2 9-19-19	Total/NA	Water	300.0	
180-96048-16	DUP-1	Total/NA	Water	300.0	
180-96048-17	DUP-2	Total/NA	Water	300.0	
MB 180-293917/6	Method Blank	Total/NA	Water	300.0	
LCS 180-293917/5	Lab Control Sample	Total/NA	Water	300.0	
180-96048-4 MS	WGWC-9	Total/NA	Water	300.0	
180-96048-4 MSD	WGWC-9	Total/NA	Water	300.0	
180-96048-13 MS	WGWC-19	Total/NA	Water	300.0	
180-96048-13 MSD	WGWC-19	Total/NA	Water	300.0	

Metals

Prep Batch: 292939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96048-1	WGWA-3	Total Recoverable	Water	3005A	
180-96048-2	WGWA-7	Total Recoverable	Water	3005A	
180-96048-3	WGWC-8	Total Recoverable	Water	3005A	
180-96048-4	WGWC-9	Total Recoverable	Water	3005A	
180-96048-5	WGWC-10	Total Recoverable	Water	3005A	
180-96048-6	WGWC-11	Total Recoverable	Water	3005A	
180-96048-7	WGWC-12	Total Recoverable	Water	3005A	
180-96048-8	WGWC-13	Total Recoverable	Water	3005A	
180-96048-9	WGWC-14A	Total Recoverable	Water	3005A	
180-96048-10	WGWC-15	Total Recoverable	Water	3005A	
180-96048-11	WGWC-16	Total Recoverable	Water	3005A	
180-96048-12	WGWC-17	Total Recoverable	Water	3005A	
MB 180-292939/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292939/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-96048-12 MS	WGWC-17	Total Recoverable	Water	3005A	
180-96048-12 MSD	WGWC-17	Total Recoverable	Water	3005A	

Prep Batch: 292942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96048-13	WGWC-19	Total Recoverable	Water	3005A	
180-96048-14	EB-2 9-19-19	Total Recoverable	Water	3005A	
180-96048-15	FB-2 9-19-19	Total Recoverable	Water	3005A	

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QC Association Summary

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

Job ID: 180-96048-1
SDG: Ash Pond

Metals (Continued)

Prep Batch: 292942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96048-16	DUP-1	Total Recoverable	Water	3005A	
180-96048-17	DUP-2	Total Recoverable	Water	3005A	
MB 180-292942/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292942/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 295123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96048-1	WGWA-3	Total Recoverable	Water	EPA 6020	292939
180-96048-2	WGWA-7	Total Recoverable	Water	EPA 6020	292939
180-96048-3	WGWC-8	Total Recoverable	Water	EPA 6020	292939
180-96048-4	WGWC-9	Total Recoverable	Water	EPA 6020	292939
180-96048-5	WGWC-10	Total Recoverable	Water	EPA 6020	292939
180-96048-6	WGWC-11	Total Recoverable	Water	EPA 6020	292939
180-96048-7	WGWC-12	Total Recoverable	Water	EPA 6020	292939
180-96048-8	WGWC-13	Total Recoverable	Water	EPA 6020	292939
180-96048-9	WGWC-14A	Total Recoverable	Water	EPA 6020	292939
180-96048-10	WGWC-15	Total Recoverable	Water	EPA 6020	292939
180-96048-11	WGWC-16	Total Recoverable	Water	EPA 6020	292939
180-96048-12	WGWC-17	Total Recoverable	Water	EPA 6020	292939
MB 180-292939/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292939
LCS 180-292939/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292939
180-96048-12 MS	WGWC-17	Total Recoverable	Water	EPA 6020	292939
180-96048-12 MSD	WGWC-17	Total Recoverable	Water	EPA 6020	292939

Analysis Batch: 295459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96048-13	WGWC-19	Total Recoverable	Water	EPA 6020	292942
180-96048-14	EB-2 9-19-19	Total Recoverable	Water	EPA 6020	292942
180-96048-15	FB-2 9-19-19	Total Recoverable	Water	EPA 6020	292942
180-96048-16	DUP-1	Total Recoverable	Water	EPA 6020	292942
180-96048-17	DUP-2	Total Recoverable	Water	EPA 6020	292942
MB 180-292942/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292942
LCS 180-292942/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292942

Analysis Batch: 295479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-292942/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292942

General Chemistry

Analysis Batch: 292416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96048-1	WGWA-3	Total/NA	Water	SM 2540C	
180-96048-2	WGWA-7	Total/NA	Water	SM 2540C	
180-96048-8	WGWC-13	Total/NA	Water	SM 2540C	
180-96048-9	WGWC-14A	Total/NA	Water	SM 2540C	
180-96048-10	WGWC-15	Total/NA	Water	SM 2540C	
180-96048-11	WGWC-16	Total/NA	Water	SM 2540C	
180-96048-12	WGWC-17	Total/NA	Water	SM 2540C	
180-96048-13	WGWC-19	Total/NA	Water	SM 2540C	
180-96048-16	DUP-1	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

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

Job ID: 180-96048-1
SDG: Ash Pond

General Chemistry (Continued)


Analysis Batch: 292416 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-292416/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-292416/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 292771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96048-3	WGWC-8	Total/NA	Water	SM 2540C	
180-96048-4	WGWC-9	Total/NA	Water	SM 2540C	
180-96048-5	WGWC-10	Total/NA	Water	SM 2540C	
180-96048-6	WGWC-11	Total/NA	Water	SM 2540C	
180-96048-7	WGWC-12	Total/NA	Water	SM 2540C	
180-96048-14	EB-2 9-19-19	Total/NA	Water	SM 2540C	
180-96048-15	FB-2 9-19-19	Total/NA	Water	SM 2540C	
180-96048-17	DUP-2	Total/NA	Water	SM 2540C	
MB 180-292771/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-292771/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Chain of Custody Record

Client Information Client Contact: Joju Abraham Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35281 Phone: PO #: SCS10347656 WO #: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Lab PM: E-Mail: Carrier Tracking No(s): Page: 1 of 2 Job #: COC No:	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 40007709 SSW#:		Analysis Requested Detected App IV Metals Radium 226 & 228 (See list below) (SM-846 9315/9320)	
Sample Identification WGWA-3 WGWA-7 WGN-C-8 WGN-C-9 WGN-C-10 WGN-C-11 WGN-C-12 WGN-C-13 WGN-C-14A WGN-C-15 WGN-C-16		Total Number of Containers 3 3 3 3 3 3 3 3 3 3 3	
Sample Date 9-18-19 9-18-19 9-19-19 9-19-19 9-19-19 9-19-19 9-18-19 9-18-19 9-18-19 9-18-19 9-18-19		Special Instructions/Note: APP III  180-96048 Chain of Custody	
Sample Time 1034 1146 1045 1352 1225 1325 1031 1225 1335 1427 1306		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 - EDTA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Type (C=Comp, G=grab) G G G G G G G G G G G		Field Filtered Sample (Yes or No) N N N N N N N N N N N	
Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air) W W W W W W W W W W W		Perform MS/MSD (Yes or No) N N N N N N N N N N N	
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:	
Empty Kit Relinquished by: Taylor Gell 9/20/19 Relinquished by: Taylor Gell 9/20/19 Relinquished by: [Signature] 9/20/19		Method of Shipment:	
Date: 9-20-19 Date: 9-20-19 Date: 9/20/19		Date/Time: 9/20/19 14:00 Date/Time: 9-21-19 Date/Time: 9:30	
Company: ACC Company: CTA Company:		Company: ATK Company: TAP Company:	
Custody Seal No.: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	

Detected APP II: Metals: Arsenic Barium Beryllium Cadmium Chromium Cobalt Lead Lithium Molybdenum Selenium Thallium; Radium Fluoride



Chain of Custody Record

Client Information Client Contact: Joju Abraham Southern Company Address: PO BOX 2641 GSC8 Birmingham State, Zip: AL, 35291 Phone: Email: JAbraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Sampler: <u>T. Goble / H. Avild / B. Wells</u> Lab PM: Phone: E-Mail:		Carrier Tracking No(s): COC No: Page: <u>2 of 2</u> Job #:							
Due Date Requested: TAT Requested (days): PO #: SCS:10347656 WO #: Project #: 40007709 SSOW#:		Analysis Requested Detected App IV Metals (See list below) Radium 226 & 228 (SM-846 9315/9320) C1, T1, SO4 & TDS (EPA 300.0 & SM 2540C) Metals App. III (EPA 6020/7470) Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)									
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastewater, AT=tissue, A=Air) Preservation Code:		Total Number of containers Special Instructions/Note: APP III Extra Radium bottle									
WGWC-17 WGWC-19 EB-2 9-19-19 EB-2 9-19-19 Dup-1 Dup-2		9-18-19 9-18-19 9-19-19 9-19-19 9-18-19 9-19-19		G G G G G G		W W W W W W		3 4 3 3 3 3		APP III Extra Radium bottle	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Empty Kit Relinquished by: Relinquished by: <u>T. Goble</u> Date/Time: <u>9/20/19 14:00</u> Company: <u>EAH</u>						Method of Shipment:					
Relinquished by: <u>T. Goble</u> Date/Time: <u>9/20/19 16:00</u> Company: <u>EAH</u>						Received by: <u>J. Avild</u> Date/Time: <u>9-21-19 9:30</u> Company: <u>EAH</u>					
Relinquished by: <u>T. Goble</u> Date/Time: <u>9/20/19 16:00</u> Company: <u>EAH</u>						Received by: <u>J. Avild</u> Date/Time: <u>9-21-19 9:30</u> Company: <u>EAH</u>					
Custody Seals Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>						Cooler Temperature(s) °C and Other Remarks:					



151966 10/04 MWI

DR



ORIGIN ID:MULA (676)
GEORGE TAYLOR
EUROFINSTESTAMERICA
6500 MCDONOUGH DRIVE

DATE: 20SEP19
58.55 LB
116/CAFE3211

NORCROSS, GA 30093
UNITED STATES US

TO SAMPLE REC
EUROFINS TEST
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH
(412) 983-7058
REF: SOUTHERN CO

Custody Seal
10-10-10

SIGNATURE



Environment Testing
TestAmerica

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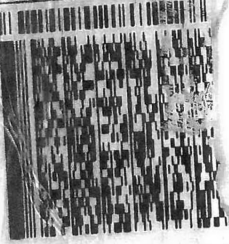
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180-96048 Waybill

2 of 5
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Uncorrected temp 1.3 °C
Thermometer ID 10

CF 0 Initials JS

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Prof. Environment Testing
America

Part # 154403-434 PRTZ EXP 042000

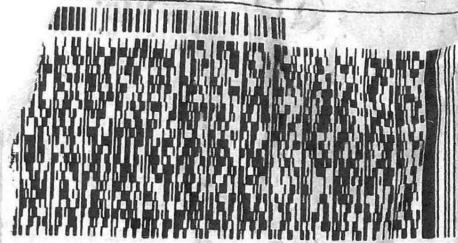
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SATURDAY 12:00P
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PIT

Uncorrected temp
Thermometer ID

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CF

Initials TS

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



6 1004 MMW



Environment Testing
TestAmerica

Part # 159469-434 RITZ EXP 05/20

Custody Seal
DATE
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SIGNATURE



Environment Testing
TestAmerica

1129275

ORIGIN ID:MULA (678) 966-9991
GEORGE TAYLOR
EUROFINSTESTAMERICA, ATLANTA
6500 MCDONOUGH DRIVE

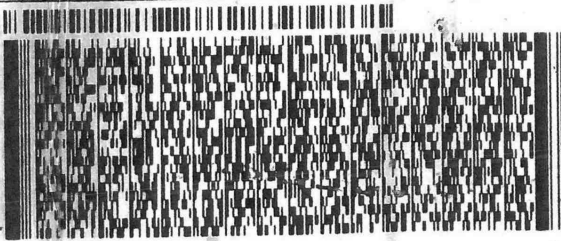
SHIP DATE: 20SEP19
ACTWGT: 58.55 LB
CAD: 859116/CAFE3211

NORCROSS, GA 30093
UNITED STATES US

BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: SOUTHERN CO.



4 of 5

SATURDAY 12:00P
PRIORITY OVERNIGHT

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Meir# 4651 0083 7630

0201

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PA-US PIT

Uncorrected temp
Thermometer ID

29 °C
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CF 0 Initials B

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



DR



Environment Testing
TestAmerica

Custody Seal

SIGNATURE



Environment Testing
TestAmerica

ORIGIN ID:MULA (678) 966-8991
GEORGE TAYLOR
EUROFINSTESTAMERICA, ATLANTA
6500 MCDONOUGH DRIVE

SHIP DATE: 20SEP19
ACTWGT: 58.55 LB
CAD: 859116/CAFE3211

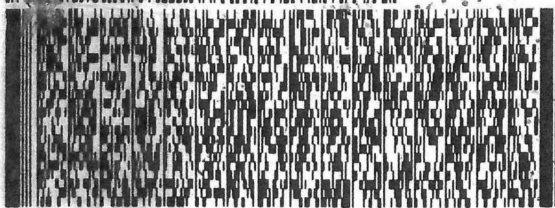
NORCROSS, GA 30093
UNITED STATES US

BILL-RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058

REF: SOUTHERN CO.



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5 of 5

MPS# 4651 0083 7673

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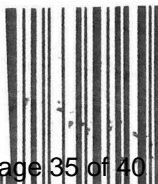
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PRIORITY OVERNIGHT

XO AGCA

15238
PA-US PIT

Uncorrected temp 9.3 °C
Thermometer ID 10

CF 0 Initials TS



Effective 11/8/18

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FedEx Express

FedEx Saturday

1129279

[Handwritten Signature]
SIGNATURE

eurofins
Environment Testing
TestAmerica

eurofins

Environment Testing
TestAmerica

IGIN ID: MULA (678) 966-9991
ORGE TAYLOR
UROFINSTESTAMERICA, ATLANTA
500 MCDONOUGH DRIVE

SHIP DATE: 20SEP19
ACTWGT: 58.55 LB
CAD: 859116/CAFE3211

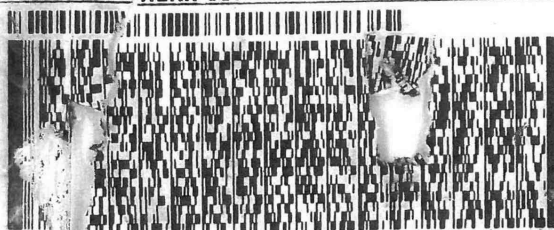
DRACROSS, GA 30093
UNITED STATES US

BILL RECIPIENT

SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7063

REF: SOUTHERN CO.



FedEx Express



1 of 5

TRK#
0201

4651 0083 7630

SATURDAY 12:00P
PRIORITY OVERNIGHT

MASTER

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PA-US **PIT**

Uncorrected temp
Thermometer ID

1.3 °C
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CF 0 Initials B

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

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Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: 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:		Lab PM: Bortol, Veronica E-Mail: veronica.bortol@testamericainc.com State of Origin: Georgia Carrier Tracking No(s): Page: Page 1 of 2 Job #: 180-96048-1					
Due Date Requested: 10/3/2019 TAT Requested (days): PO #: WO #: Project #: 18019922 SOW#:		Analysis Requested: Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) 9315_Ra226/PreSep_21 Standard Target List 9320_Ra228/PreSep_0 Standard Target List Ra226Ra228_GFP					
Sample Identification - Client ID (Lab ID)		Total Number of Containers					
WGWA-3 (180-96048-1)	9/18/19	10:34 Eastern	Water	X	X	1	
WGWA-7 (180-96048-2)	9/18/19	11:46 Eastern	Water	X	X	1	
WGWC-8 (180-96048-3)	9/19/19	10:45 Eastern	Water	X	X	1	
WGWC-9 (180-96048-4)	9/19/19	13:52 Eastern	Water	X	X	1	
WGWC-10 (180-96048-5)	9/19/19	12:25 Eastern	Water	X	X	1	
WGWC-11 (180-96048-6)	9/19/19	13:25 Eastern	Water	X	X	1	
WGWC-12 (180-96048-7)	9/19/19	10:31 Eastern	Water	X	X	1	
WGWC-13 (180-96048-8)	9/18/19	12:25 Eastern	Water	X	X	1	
WGWC-14A (180-96048-9)	9/18/19	13:35 Eastern	Water	X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 9/23/19 17:00
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: Yes 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:

Received by: _____ Date/Time: 9/24/19 09:30
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Cooler Temperature(s) °C and Other Remarks:



Client Information (Sub Contract Lab)		Lab PM: Bortol, Veronica	Carrier Tracking No(s): 180-374217.2
Company: TestAmerica Laboratories, Inc.		E-Mail: veronica.bortol@testamericainc.com	Page: Page 2 of 2
Address: 13715 Rider Trail North, Earth City, MO, 63045		State of Origin: Georgia	Job #: 180-96048-1
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Accreditations Required (See note):	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:
Due Date Requested: 10/3/2019		Analysis Requested:	
TAT Requested (days):		Total Number of containers	
PO #:	WO #:	9315_Ra226/PreSep_21 Standard Target List	9320_Ra228/PreSep_0 Standard Target List
Project #:	SSOW#:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
CCR - Plant Wansley	18019922	X	X
Site: CCR - Plant Wansley Landfill		X	X
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)
WGWC-15 (180-96048-10)	9/18/19	14:27 Eastern	Water
WGWC-16 (180-96048-11)	9/18/19	13:06 Eastern	Water
WGWC-17 (180-96048-12)	9/18/19	11:20 Eastern	Water
WGWC-19 (180-96048-13)	9/18/19	12:05 Eastern	Water
EB-2 9-19-19 (180-96048-14)	9/19/19	09:30 Eastern	Water
FB-2 9-19-19 (180-96048-15)	9/19/19	10:35 Eastern	Water
DUP-1 (180-96048-16)	9/18/19	Eastern	Water
DUP-2 (180-96048-17)	9/19/19	Eastern	Water
Special Instructions/Note:			
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2			
Empty Kit Relinquished by: _____ Date: _____			
Relinquished by: _____ Date/Time: _____			
Relinquished by: _____ Date/Time: _____			
Relinquished by: _____ Date/Time: _____			
Custody Seals Intact: _____ Custody Seal No.: _____			
△ Yes △ No			
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 _____ Months			
Special Instructions/QC Requirements:			
Method of Shipment:			
Received by: _____ Date/Time: 9/24/19 09:20 Company: JKS II			
Received by: _____ Date/Time: _____ Company: _____			
Received by: _____ Date/Time: _____ Company: _____			
Cooler Temperature(s) °C and Other Remarks:			

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:								
Client Contact:		Phone:	Bortot, Veronica		180-374621.1								
Shipping/Receiving		E-Mail:	veronica.bortot@testamericainc.com	State of Origin:	Page:								
Company:		TestAmerica Laboratories, Inc.		Accreditations Required (See note):	Page 1 of 1								
Address:		Due Date Requested:	10/3/2019	Job #:	180-96048-1								
City:		TAT Requested (days):		Preservation Codes:									
State, Zip:		PO #:		A - HCL	M - Hexane								
Phone:		WO #:		B - NaOH	N - None								
Email:		Project #:	18019922	C - Zn Acetate	O - AsNaO2								
Project Name:		SSOW#:		D - Nitric Acid	P - Na2O4S								
CCR - Plant Wansley				E - NaHSO4	Q - Na2SO3								
Site:				F - MeOH	R - Na2S2O3								
CCR - Plant Wansley Landfill				G - Amchlor	S - H2SO4								
				H - Ascorbic Acid	T - TSP Dodecahydrate								
				I - Ice	U - Acetone								
				J - DI Water	V - MCAA								
				K - EDTA	W - pH 4.5								
				L - EDA	Z - other (specify)								
				Other:									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sealed, O=water, etc)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PreSep_21 Standard Target List	9320_Ra228/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of containers	Special Instructions/Note:
WGWC-8 (180-96048-3)	9/19/19	10:45 Eastern	Water	X	X	X	X	X	X	X	1		
WGWC-11 (180-96048-6)	9/19/19	13:25 Eastern	Water	X	X	X	X	X	X	X	1		
WGWC-12 (180-96048-7)	9/19/19	10:31 Eastern	Water	X	X	X	X	X	X	X	1		
WGWC-14A (180-96048-9)	9/18/19	13:35 Eastern	Water	X	X	X	X	X	X	X	1		
WGWC-16 (180-96048-11)	9/18/19	13:06 Eastern	Water	X	X	X	X	X	X	X	1		
WGWC-17 (180-96048-12)	9/18/19	11:20 Eastern	Water	X	X	X	X	X	X	X	1		
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>													
Possible Hazard Identification													
Unconfirmed													
Deliverable Requested: I, II, III, IV, Other (specify)													
Primary Deliverable Rank: 2													
Date: _____ Time: _____													
Empty Kit Relinquished by: _____													
Relinquished by: _____ Date/Time: 9/12/19 17:00													
Relinquished by: _____ Date/Time: _____													
Relinquished by: _____ Date/Time: _____													
Custody Seals Intact: _____ Custody Seal No.: _____													
Cooler Temperature(s) °C and Other Remarks: _____													
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: _____													
Method of Shipment: _____ Received by: _____ Date/Time: 9-28-19 05:00 Company: TA STZ Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____													

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96048-1

SDG Number: Ash Pond

Login Number: 96048

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: 180-96048-2

Laboratory Sample Delivery Group: Ash Pond
Client Project/Site: CCR - Plant Wansley

For:

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

Attn: Joju Abraham



Authorized for release by:
11/6/2019 10:20:50 AM

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

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

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

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	5
Certification Summary	6
Sample Summary	8
Method Summary	9
Lab Chronicle	10
Client Sample Results	16
QC Sample Results	27
QC Association Summary	29
Chain of Custody	30
Receipt Checklists	37

Case Narrative

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

Job ID: 180-96048-2
SDG: Ash Pond

Job ID: 180-96048-2

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-96048-2

Comments

No additional comments.

Receipt

The samples were received on 9/21/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.9° C and 4.3° C.

RAD

Methods 903.0, 9315: Radium-226 prep batch 160-444531-

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

WGWC-8 (180-96048-3), WGWC-11 (180-96048-6), WGWC-12 (180-96048-7), WGWC-14A (180-96048-9), WGWC-16 (180-96048-11), WGWC-17 (180-96048-12), (LCS 160-444531/1-A), (MB 160-444531/18-A), (400-176914-C-2-D), (400-176914-C-2-E MS) and (400-176914-C-2-F MSD)

Method 9315: Radium-226 Prep Batch 160-444175

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-3 (180-96048-1), WGWA-7 (180-96048-2), WGWC-9 (180-96048-4), WGWC-10 (180-96048-5), WGWC-13 (180-96048-8), WGWC-15 (180-96048-10), WGWC-19 (180-96048-13), EB-2 9-19-19 (180-96048-14), FB-2 9-19-19 (180-96048-15), DUP-1 (180-96048-16), DUP-2 (180-96048-17), (LCS 160-444175/2-B) and (MB 160-444175/22-A)

Method 9320: <Ra-228> Prep Batch 160-444178

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-3 (180-96048-1), WGWA-7 (180-96048-2), WGWC-9 (180-96048-4), WGWC-10 (180-96048-5), WGWC-13 (180-96048-8), WGWC-15 (180-96048-10), WGWC-19 (180-96048-13), EB-2 9-19-19 (180-96048-14), FB-2 9-19-19 (180-96048-15), DUP-1 (180-96048-16), DUP-2 (180-96048-17), (LCS 160-444178/2-B) and (MB 160-444178/22-A)

Method 9320: Radium-228 Prep Batch 160-444558

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

WGWC-8 (180-96048-3), WGWC-11 (180-96048-6), WGWC-12 (180-96048-7), WGWC-14A (180-96048-9), WGWC-16 (180-96048-11), WGWC-17 (180-96048-12), (LCS 160-444558/1-A), (MB 160-444558/18-A), (400-176914-C-2-G), (400-176914-C-2-H MS) and (400-176914-C-2-I MSD)

Case Narrative

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

Job ID: 180-96048-2
SDG: Ash Pond

Job ID: 180-96048-2 (Continued)

Laboratory: Eurofins TestAmerica, Pittsburgh (Continued)

Method PrecSep_0: Radium 228 Prep Batch 160-444175:

Insufficient sample volume was available to perform a sample duplicate for the following samples: WGWA-3 (180-96048-1), WGWA-7 (180-96048-2), WGWC-9 (180-96048-4), WGWC-10 (180-96048-5), WGWC-13 (180-96048-8), WGWC-15 (180-96048-10), WGWC-19 (180-96048-13), EB-2 9-19-19 (180-96048-14), FB-2 9-19-19 (180-96048-15), DUP-1 (180-96048-16) and DUP-2 (180-96048-17). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision

Method PrecSep_0: Radium 228 Prep Batch 160-445767:

The following samples were prepared at a reduced aliquot due to limited volume for re-prep: WGWA-3 (180-96048-1), WGWA-7 (180-96048-2), WGWC-9 (180-96048-4), WGWC-10 (180-96048-5), WGWC-13 (180-96048-8), WGWC-15 (180-96048-10), WGWC-19 (180-96048-13), EB-2 9-19-19 (180-96048-14), FB-2 9-19-19 (180-96048-15), DUP-1 (180-96048-16) and DUP-2 (180-96048-17). Sample 180-96046-D-1 had light yellow discoloration.

Method PrecSep_0: Radium 228 Prep Batch 160-445767:

Insufficient sample volume was available to perform a sample duplicate for the following samples: WGWA-3 (180-96048-1), WGWA-7 (180-96048-2), WGWC-9 (180-96048-4), WGWC-10 (180-96048-5), WGWC-13 (180-96048-8), WGWC-15 (180-96048-10), WGWC-19 (180-96048-13), EB-2 9-19-19 (180-96048-14), FB-2 9-19-19 (180-96048-15), DUP-1 (180-96048-16) and DUP-2 (180-96048-17). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-444175:

Insufficient sample volume was available to perform a sample duplicate for the following samples: WGWA-3 (180-96048-1), WGWA-7 (180-96048-2), WGWC-9 (180-96048-4), WGWC-10 (180-96048-5), WGWC-13 (180-96048-8), WGWC-15 (180-96048-10), WGWC-19 (180-96048-13), EB-2 9-19-19 (180-96048-14), FB-2 9-19-19 (180-96048-15), DUP-1 (180-96048-16) and DUP-2 (180-96048-17). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21: Radium 226 Prep Batch 160-445766:

The following samples were prepared at a reduced aliquot due to limited volume for re-prep: WGWA-3 (180-96048-1), WGWA-7 (180-96048-2), WGWC-9 (180-96048-4), WGWC-10 (180-96048-5), WGWC-13 (180-96048-8), WGWC-15 (180-96048-10), WGWC-19 (180-96048-13), EB-2 9-19-19 (180-96048-14), FB-2 9-19-19 (180-96048-15), DUP-1 (180-96048-16) and DUP-2 (180-96048-17). Sample 180-96046-D-1 had light yellow discoloration.

Method PrecSep-21: Radium 226 Prep Batch 160-445766:

Insufficient sample volume was available to perform a sample duplicate for the following samples: WGWA-3 (180-96048-1), WGWA-7 (180-96048-2), WGWC-9 (180-96048-4), WGWC-10 (180-96048-5), WGWC-13 (180-96048-8), WGWC-15 (180-96048-10), WGWC-19 (180-96048-13), EB-2 9-19-19 (180-96048-14), FB-2 9-19-19 (180-96048-15), DUP-1 (180-96048-16) and DUP-2 (180-96048-17). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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

Definitions/Glossary

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

Job ID: 180-96048-2
SDG: Ash Pond

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

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

Job ID: 180-96048-2
 SDG: Ash Pond

Laboratory: Eurofins TestAmerica, Pittsburgh

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

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



Accreditation/Certification Summary

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

Job ID: 180-96048-2
 SDG: Ash Pond

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-19
California	Los Angeles County Sanitation Districts	10259	06-30-20
California	State	2886	06-30-20
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-20
HI - RadChem Recognition	State	n/a	06-30-20
Illinois	NELAP	004553	11-30-19
Iowa	State	373	09-17-20
Iowa	State Program	373	12-01-20
Kansas	NELAP	E-10236	10-31-19 *
Kentucky (DW)	State	KY90125	12-31-19
Louisiana	NELAP	04080	06-30-20
Louisiana (DW)	State	LA011	12-31-19
Maryland	State	310	09-30-20
MI - RadChem Recognition	State	9005	06-30-20
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-20
New Jersey	NELAP	MO002	06-30-20
New York	NELAP	11616	04-01-20
North Dakota	State	R-207	06-30-20
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-20
Pennsylvania	NELAP	68-00540	02-28-20
South Carolina	State	85002001	06-30-20
Texas	NELAP	T104704193-19-13	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00028	02-02-20
Utah	NELAP	MO000542019-11	07-31-20
Virginia	NELAP	10310	06-14-20
Washington	State	C592	08-30-20
Washington	State Program	C592	08-30-20
West Virginia DEP	State	381	10-31-19
West Virginia DEP	State Program	381	10-31-19 *

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

Sample Summary

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

Job ID: 180-96048-2
SDG: Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-96048-1	WGWA-3	Water	09/18/19 10:34	09/21/19 09:30	
180-96048-2	WGWA-7	Water	09/18/19 11:46	09/21/19 09:30	
180-96048-3	WGWC-8	Water	09/19/19 10:45	09/21/19 09:30	
180-96048-4	WGWC-9	Water	09/19/19 13:52	09/21/19 09:30	
180-96048-5	WGWC-10	Water	09/19/19 12:25	09/21/19 09:30	
180-96048-6	WGWC-11	Water	09/19/19 13:25	09/21/19 09:30	
180-96048-7	WGWC-12	Water	09/19/19 10:31	09/21/19 09:30	
180-96048-8	WGWC-13	Water	09/18/19 12:25	09/21/19 09:30	
180-96048-9	WGWC-14A	Water	09/18/19 13:35	09/21/19 09:30	
180-96048-10	WGWC-15	Water	09/18/19 14:27	09/21/19 09:30	
180-96048-11	WGWC-16	Water	09/18/19 13:06	09/21/19 09:30	
180-96048-12	WGWC-17	Water	09/18/19 11:20	09/21/19 09:30	
180-96048-13	WGWC-19	Water	09/18/19 12:05	09/21/19 09:30	
180-96048-14	EB-2 9-19-19	Water	09/19/19 09:30	09/21/19 09:30	
180-96048-15	FB-2 9-19-19	Water	09/19/19 10:35	09/21/19 09:30	
180-96048-16	DUP-1	Water	09/18/19 00:00	09/21/19 09:30	
180-96048-17	DUP-2	Water	09/19/19 00:00	09/21/19 09:30	

Method Summary

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

Job ID: 180-96048-2
SDG: Ash Pond

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL
PrecSep_0	Preparation, Precipitate Separation	None	TAL SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: WGWA-3

Date Collected: 09/18/19 10:34

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-1

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			1000.21 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 08:51	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.21 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:13	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Date Collected: 09/18/19 11:46

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-2

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			1000.20 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446867	10/18/19 08:52	AJD	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.20 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:13	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8

Date Collected: 09/19/19 10:45

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.79 mL	1.0 g	444531	09/30/19 07:20	EJQ	TAL SL
Total/NA	Analysis	9315		1			447440	10/23/19 16:22	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.79 mL	1.0 g	444558	09/30/19 12:15	EJQ	TAL SL
Total/NA	Analysis	9320		1			446271	10/15/19 16:50	JCB	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-9

Date Collected: 09/19/19 13:52

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-4

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			1000.69 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446867	10/18/19 08:52	AJD	TAL SL
Instrument ID: GFPCPURPLE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: WGWC-9

Date Collected: 09/19/19 13:52

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1000.69 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445721	10/10/19 09:17	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10

Date Collected: 09/19/19 12:25

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.25 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 10:42	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.25 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445720	10/10/19 09:13	KLS	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-11

Date Collected: 09/19/19 13:25

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.44 mL	1.0 g	444531	09/30/19 07:20	EJQ	TAL SL
Total/NA	Analysis	9315		1			447440	10/23/19 16:22	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.44 mL	1.0 g	444558	09/30/19 12:15	EJQ	TAL SL
Total/NA	Analysis	9320		1			446271	10/15/19 16:50	JCB	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-12

Date Collected: 09/19/19 10:31

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.10 mL	1.0 g	444531	09/30/19 07:20	EJQ	TAL SL
Total/NA	Analysis	9315		1			447440	10/23/19 16:22	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.10 mL	1.0 g	444558	09/30/19 12:15	EJQ	TAL SL
Total/NA	Analysis	9320		1			446271	10/15/19 16:51	JCB	TAL SL
Instrument ID: GFPCPROTEAN										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: WGWC-12

Lab Sample ID: 180-96048-7

Date Collected: 09/19/19 10:31

Matrix: Water

Date Received: 09/21/19 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			447649	10/25/19 08:32	SMP	TAL SL

Client Sample ID: WGWC-13

Lab Sample ID: 180-96048-8

Date Collected: 09/18/19 12:25

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.77 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 10:42	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.77 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445721	10/10/19 09:16	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-14A

Lab Sample ID: 180-96048-9

Date Collected: 09/18/19 13:35

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.15 mL	1.0 g	444531	09/30/19 07:20	EJQ	TAL SL
Total/NA	Analysis	9315		1			447440	10/23/19 16:22	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.15 mL	1.0 g	444558	09/30/19 12:15	EJQ	TAL SL
Total/NA	Analysis	9320		1			446271	10/15/19 16:51	JCB	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Lab Sample ID: 180-96048-10

Date Collected: 09/18/19 14:27

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.19 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 10:42	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.19 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445721	10/10/19 09:16	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: WGWC-16

Date Collected: 09/18/19 13:06

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.92 mL	1.0 g	444531	09/30/19 07:20	EJQ	TAL SL
Total/NA	Analysis	9315		1			447440	10/23/19 16:23	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.92 mL	1.0 g	444558	09/30/19 12:15	EJQ	TAL SL
Total/NA	Analysis	9320		1			446271	10/15/19 16:51	JCB	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-17

Date Collected: 09/18/19 11:20

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.42 mL	1.0 g	444531	09/30/19 07:20	EJQ	TAL SL
Total/NA	Analysis	9315		1			447440	10/23/19 16:23	SCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.42 mL	1.0 g	444558	09/30/19 12:15	EJQ	TAL SL
Total/NA	Analysis	9320		1			446271	10/15/19 16:51	JCB	TAL SL
Instrument ID: GFPCPROTEAN										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-19

Date Collected: 09/18/19 12:05

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.28 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 10:42	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.28 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445721	10/10/19 09:16	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-2 9-19-19

Date Collected: 09/19/19 09:30

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.04 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 10:42	KLS	TAL SL
Instrument ID: GFPCBLUE										

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Lab Chronicle

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: EB-2 9-19-19

Lab Sample ID: 180-96048-14

Date Collected: 09/19/19 09:30

Matrix: Water

Date Received: 09/21/19 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			1000.04 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445721	10/10/19 09:16	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-2 9-19-19

Lab Sample ID: 180-96048-15

Date Collected: 09/19/19 10:35

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.27 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 10:42	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.27 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445721	10/10/19 09:17	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-1

Lab Sample ID: 180-96048-16

Date Collected: 09/18/19 00:00

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.51 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 10:43	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.51 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445721	10/10/19 09:16	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			447649	10/25/19 08:32	SMP	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-2

Lab Sample ID: 180-96048-17

Date Collected: 09/19/19 00:00

Matrix: Water

Date Received: 09/21/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.09 mL	1.0 g	444175	09/25/19 15:02	ORM	TAL SL
Total/NA	Analysis	9315		1			446870	10/18/19 10:43	KLS	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.09 mL	1.0 g	444178	09/25/19 15:15	ORM	TAL SL
Total/NA	Analysis	9320		1			445721	10/10/19 09:16	KLS	TAL SL
Instrument ID: GFPCBLUE										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: DUP-2

Lab Sample ID: 180-96048-17

Date Collected: 09/19/19 00:00

Matrix: Water

Date Received: 09/21/19 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			447649	10/25/19 08:32	SMP	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: TAL SL

Batch Type: Prep

EJQ = Erin Quinn

ORM = Octavia Moore

Batch Type: Analysis

AJD = Audra DeMariano

JCB = Justin Banner

KLS = Kody Saulters

SCB = Sarah Bernsen

SMP = Siobhan Perry

Client Sample Results

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: WGWA-3

Lab Sample ID: 180-96048-1

Date Collected: 09/18/19 10:34

Matrix: Water

Date Received: 09/21/19 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	0.0595	U	0.0768	0.0770	1.00	0.128	pCi/L	09/25/19 15:02	10/18/19 08:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					09/25/19 15:02	10/18/19 08:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.130	U	0.221	0.221	1.00	0.374	pCi/L	09/25/19 15:15	10/10/19 09:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					09/25/19 15:15	10/10/19 09:13	1
Y Carrier	85.2		40 - 110					09/25/19 15:15	10/10/19 09:13	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.189	U	0.234	0.234	5.00	0.374	pCi/L		10/25/19 08:32	1

Client Sample ID: WGWA-7

Lab Sample ID: 180-96048-2

Date Collected: 09/18/19 11:46

Matrix: Water

Date Received: 09/21/19 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	-0.0222	U	0.0626	0.0626	1.00	0.133	pCi/L	09/25/19 15:02	10/18/19 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110					09/25/19 15:02	10/18/19 08:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.321	U	0.239	0.241	1.00	0.372	pCi/L	09/25/19 15:15	10/10/19 09:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110					09/25/19 15:15	10/10/19 09:13	1
Y Carrier	81.5		40 - 110					09/25/19 15:15	10/10/19 09:13	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: WGWA-7

Lab Sample ID: 180-96048-2

Date Collected: 09/18/19 11:46

Matrix: Water

Date Received: 09/21/19 09:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.299	U	0.247	0.249	5.00	0.372	pCi/L		10/25/19 08:32	1

Client Sample ID: WGWC-8

Lab Sample ID: 180-96048-3

Date Collected: 09/19/19 10:45

Matrix: Water

Date Received: 09/21/19 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	0.458		0.143	0.149	1.00	0.150	pCi/L	09/30/19 07:20	10/23/19 16:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		40 - 110					09/30/19 07:20	10/23/19 16:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.61		0.410	0.436	1.00	0.525	pCi/L	09/30/19 12:15	10/15/19 16:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.6		40 - 110					09/30/19 12:15	10/15/19 16:50	1
Y Carrier	86.4		40 - 110					09/30/19 12:15	10/15/19 16:50	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	2.06		0.434	0.461	5.00	0.525	pCi/L		10/25/19 08:32	1

Client Sample ID: WGWC-9

Lab Sample ID: 180-96048-4

Date Collected: 09/19/19 13:52

Matrix: Water

Date Received: 09/21/19 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	-0.0149	U	0.0568	0.0568	1.00	0.122	pCi/L	09/25/19 15:02	10/18/19 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					09/25/19 15:02	10/18/19 08:52	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: WGWC-9

Lab Sample ID: 180-96048-4

Date Collected: 09/19/19 13:52

Matrix: Water

Date Received: 09/21/19 09:30

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.552		0.271	0.276	1.00	0.399	pCi/L	09/25/19 15:15	10/10/19 09:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					09/25/19 15:15	10/10/19 09:17	1
Y Carrier	87.9		40 - 110					09/25/19 15:15	10/10/19 09:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.537		0.277	0.282	5.00	0.399	pCi/L		10/25/19 08:32	1

Client Sample ID: WGWC-10

Lab Sample ID: 180-96048-5

Date Collected: 09/19/19 12:25

Matrix: Water

Date Received: 09/21/19 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	0.00798	U	0.0644	0.0644	1.00	0.125	pCi/L	09/25/19 15:02	10/18/19 10:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					09/25/19 15:02	10/18/19 10:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.116	U	0.256	0.257	1.00	0.438	pCi/L	09/25/19 15:15	10/10/19 09:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		40 - 110					09/25/19 15:15	10/10/19 09:13	1
Y Carrier	86.0		40 - 110					09/25/19 15:15	10/10/19 09:13	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.124	U	0.264	0.265	5.00	0.438	pCi/L		10/25/19 08:32	1

Client Sample Results

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: WGWC-11

Lab Sample ID: 180-96048-6

Date Collected: 09/19/19 13:25

Matrix: Water

Date Received: 09/21/19 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	0.0186	U	0.0791	0.0792	1.00	0.148	pCi/L	09/30/19 07:20	10/23/19 16:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					09/30/19 07:20	10/23/19 16:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.319	U	0.346	0.348	1.00	0.568	pCi/L	09/30/19 12:15	10/15/19 16:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					09/30/19 12:15	10/15/19 16:50	1
Y Carrier	85.6		40 - 110					09/30/19 12:15	10/15/19 16:50	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	0.338	U	0.355	0.357	5.00	0.568	pCi/L		10/25/19 08:32	1

Client Sample ID: WGWC-12

Lab Sample ID: 180-96048-7

Date Collected: 09/19/19 10:31

Matrix: Water

Date Received: 09/21/19 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	0.0577	U	0.0773	0.0775	1.00	0.130	pCi/L	09/30/19 07:20	10/23/19 16:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		40 - 110					09/30/19 07:20	10/23/19 16:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.272	U	0.306	0.307	1.00	0.502	pCi/L	09/30/19 12:15	10/15/19 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		40 - 110					09/30/19 12:15	10/15/19 16:51	1
Y Carrier	81.9		40 - 110					09/30/19 12:15	10/15/19 16:51	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: WGWC-12

Lab Sample ID: 180-96048-7

Date Collected: 09/19/19 10:31

Matrix: Water

Date Received: 09/21/19 09:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.329	U	0.316	0.317	5.00	0.502	pCi/L		10/25/19 08:32	1

Client Sample ID: WGWC-13

Lab Sample ID: 180-96048-8

Date Collected: 09/18/19 12:25

Matrix: Water

Date Received: 09/21/19 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	0.0495	U	0.0779	0.0780	1.00	0.134	pCi/L	09/25/19 15:02	10/18/19 10:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					09/25/19 15:02	10/18/19 10:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.343	U	0.245	0.247	1.00	0.385	pCi/L	09/25/19 15:15	10/10/19 09:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					09/25/19 15:15	10/10/19 09:16	1
Y Carrier	86.4		40 - 110					09/25/19 15:15	10/10/19 09:16	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.392		0.257	0.259	5.00	0.385	pCi/L		10/25/19 08:32	1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-96048-9

Date Collected: 09/18/19 13:35

Matrix: Water

Date Received: 09/21/19 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	0.259		0.111	0.113	1.00	0.126	pCi/L	09/30/19 07:20	10/23/19 16:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					09/30/19 07:20	10/23/19 16:22	1

Client Sample Results

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: WGWC-14A

Lab Sample ID: 180-96048-9

Date Collected: 09/18/19 13:35

Matrix: Water

Date Received: 09/21/19 09:30

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.118	U	0.308	0.308	1.00	0.529	pCi/L	09/30/19 12:15	10/15/19 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					09/30/19 12:15	10/15/19 16:51	1
Y Carrier	84.5		40 - 110					09/30/19 12:15	10/15/19 16:51	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	0.376	U	0.327	0.328	5.00	0.529	pCi/L		10/25/19 08:32	1

Client Sample ID: WGWC-15

Lab Sample ID: 180-96048-10

Date Collected: 09/18/19 14:27

Matrix: Water

Date Received: 09/21/19 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	0.0253	U	0.0672	0.0672	1.00	0.123	pCi/L	09/25/19 15:02	10/18/19 10:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					09/25/19 15:02	10/18/19 10:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.458		0.275	0.278	1.00	0.422	pCi/L	09/25/19 15:15	10/10/19 09:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					09/25/19 15:15	10/10/19 09:16	1
Y Carrier	85.2		40 - 110					09/25/19 15:15	10/10/19 09:16	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.484		0.283	0.286	5.00	0.422	pCi/L		10/25/19 08:32	1

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Client Sample Results

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: WGWC-16

Lab Sample ID: 180-96048-11

Date Collected: 09/18/19 13:06

Matrix: Water

Date Received: 09/21/19 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	0.124	U	0.0917	0.0923	1.00	0.134	pCi/L	09/30/19 07:20	10/23/19 16:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		40 - 110					09/30/19 07:20	10/23/19 16:23	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.154	U	0.314	0.315	1.00	0.535	pCi/L	09/30/19 12:15	10/15/19 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		40 - 110					09/30/19 12:15	10/15/19 16:51	1
Y Carrier	84.9		40 - 110					09/30/19 12:15	10/15/19 16:51	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	0.278	U	0.327	0.328	5.00	0.535	pCi/L		10/25/19 08:32	1

Client Sample ID: WGWC-17

Lab Sample ID: 180-96048-12

Date Collected: 09/18/19 11:20

Matrix: Water

Date Received: 09/21/19 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	0.0593	U	0.0660	0.0663	1.00	0.106	pCi/L	09/30/19 07:20	10/23/19 16:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					09/30/19 07:20	10/23/19 16:23	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.108	U	0.324	0.324	1.00	0.557	pCi/L	09/30/19 12:15	10/15/19 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					09/30/19 12:15	10/15/19 16:51	1
Y Carrier	83.7		40 - 110					09/30/19 12:15	10/15/19 16:51	1

Client Sample Results

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: WGWC-17

Date Collected: 09/18/19 11:20

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-12

Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.167	U	0.331	0.331	5.00	0.557	pCi/L		10/25/19 08:32	1

Client Sample ID: WGWC-19

Date Collected: 09/18/19 12:05

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-13

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0169	U	0.0769	0.0769	1.00	0.144	pCi/L	09/25/19 15:02	10/18/19 10:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		40 - 110					09/25/19 15:02	10/18/19 10:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.386	U	0.262	0.265	1.00	0.406	pCi/L	09/25/19 15:15	10/10/19 09:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		40 - 110					09/25/19 15:15	10/10/19 09:16	1
Y Carrier	85.6		40 - 110					09/25/19 15:15	10/10/19 09:16	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.403	U	0.273	0.276	5.00	0.406	pCi/L		10/25/19 08:32	1

Client Sample ID: EB-2 9-19-19

Date Collected: 09/19/19 09:30

Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-14

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0617	U	0.0658	0.0660	1.00	0.154	pCi/L	09/25/19 15:02	10/18/19 10:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		40 - 110					09/25/19 15:02	10/18/19 10:42	1

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Client Sample Results

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: EB-2 9-19-19

Lab Sample ID: 180-96048-14

Date Collected: 09/19/19 09:30

Matrix: Water

Date Received: 09/21/19 09:30

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.240	U	0.259	0.260	1.00	0.424	pCi/L	09/25/19 15:15	10/10/19 09:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		40 - 110					09/25/19 15:15	10/10/19 09:16	1
Y Carrier	86.4		40 - 110					09/25/19 15:15	10/10/19 09:16	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.178	U	0.267	0.268	5.00	0.424	pCi/L		10/25/19 08:32	1

Client Sample ID: FB-2 9-19-19

Lab Sample ID: 180-96048-15

Date Collected: 09/19/19 10:35

Matrix: Water

Date Received: 09/21/19 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	-0.0269	U	0.0617	0.0617	1.00	0.133	pCi/L	09/25/19 15:02	10/18/19 10:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					09/25/19 15:02	10/18/19 10:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.524		0.258	0.262	1.00	0.375	pCi/L	09/25/19 15:15	10/10/19 09:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					09/25/19 15:15	10/10/19 09:17	1
Y Carrier	83.4		40 - 110					09/25/19 15:15	10/10/19 09:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.498		0.265	0.269	5.00	0.375	pCi/L		10/25/19 08:32	1

Client Sample Results

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

Job ID: 180-96048-2
SDG: Ash Pond

Client Sample ID: DUP-1
Date Collected: 09/18/19 00:00
Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-16
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	0.00973	U	0.0599	0.0599	1.00	0.116	pCi/L	09/25/19 15:02	10/18/19 10:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					09/25/19 15:02	10/18/19 10:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.388		0.251	0.253	1.00	0.386	pCi/L	09/25/19 15:15	10/10/19 09:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					09/25/19 15:15	10/10/19 09:16	1
Y Carrier	81.9		40 - 110					09/25/19 15:15	10/10/19 09:16	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.398		0.258	0.260	5.00	0.386	pCi/L		10/25/19 08:32	1

Client Sample ID: DUP-2
Date Collected: 09/19/19 00:00
Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-17
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	0.0730	U	0.0692	0.0695	1.00	0.107	pCi/L	09/25/19 15:02	10/18/19 10:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					09/25/19 15:02	10/18/19 10:43	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.516		0.237	0.242	1.00	0.338	pCi/L	09/25/19 15:15	10/10/19 09:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					09/25/19 15:15	10/10/19 09:16	1
Y Carrier	83.4		40 - 110					09/25/19 15:15	10/10/19 09:16	1

Client Sample Results

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

Job ID: 180-96048-2
 SDG: Ash Pond

Client Sample ID: DUP-2
Date Collected: 09/19/19 00:00
Date Received: 09/21/19 09:30

Lab Sample ID: 180-96048-17
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.589		0.247	0.252	5.00	0.338	pCi/L		10/25/19 08:32	1

- 1
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- 12
- 13

QC Sample Results

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

Job ID: 180-96048-2
SDG: Ash Pond

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-444175/22-A
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444175

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.04546	U	0.0492	0.0494	1.00	0.122	pCi/L	09/25/19 15:02	10/18/19 10:43	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					09/25/19 15:02	10/18/19 10:43	1
	96.3									

Lab Sample ID: LCS 160-444175/2-B
Matrix: Water
Analysis Batch: 446870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444175

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits		
				Uncert. (2σ+/-)							
Radium-226	11.4	9.442		1.00	1.00	0.137	pCi/L	83	75 - 125		
Carrier	LCS	LCS									
Ba Carrier	%Yield	Qualifier	Limits								
	95.8		40 - 110								

Lab Sample ID: MB 160-444531/18-A
Matrix: Water
Analysis Batch: 447440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444531

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1233	U	0.107	0.107	1.00	0.163	pCi/L	09/30/19 07:20	10/23/19 18:53	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					09/30/19 07:20	10/23/19 18:53	1
	74.9									

Lab Sample ID: LCS 160-444531/1-A
Matrix: Water
Analysis Batch: 447440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444531

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits		
				Uncert. (2σ+/-)							
Radium-226	11.4	9.370		1.03	1.00	0.154	pCi/L	83	75 - 125		
Carrier	LCS	LCS									
Ba Carrier	%Yield	Qualifier	Limits								
	74.3		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-444178/22-A
Matrix: Water
Analysis Batch: 445721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444178

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.5422		0.261	0.266	1.00	0.381	pCi/L	09/25/19 15:15	10/10/19 09:16	1

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QC Sample Results

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

Job ID: 180-96048-2
SDG: Ash Pond

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110	09/25/19 15:15	10/10/19 09:16	1
Y Carrier	84.9		40 - 110	09/25/19 15:15	10/10/19 09:16	1

Lab Sample ID: LCS 160-444178/2-B
Matrix: Water
Analysis Batch: 445720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444178

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.51	9.766		1.13	1.00	0.425	pCi/L	103	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.8		40 - 110
Y Carrier	84.9		40 - 110

Lab Sample ID: MB 160-444558/18-A
Matrix: Water
Analysis Batch: 446357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 444558

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1693	U	0.282	0.282	1.00	0.477	pCi/L	09/30/19 12:15	10/15/19 16:47	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	74.9		40 - 110	09/30/19 12:15	10/15/19 16:47	1
Y Carrier	88.6		40 - 110	09/30/19 12:15	10/15/19 16:47	1

Lab Sample ID: LCS 160-444558/1-A
Matrix: Water
Analysis Batch: 446271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 444558

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	9.49	11.22		1.36	1.00	0.633	pCi/L	118	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	74.3		40 - 110
Y Carrier	86.7		40 - 110

QC Association Summary

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

Job ID: 180-96048-2
SDG: Ash Pond

Rad

Prep Batch: 444175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96048-1	WGWA-3	Total/NA	Water	PrecSep-21	
180-96048-2	WGWA-7	Total/NA	Water	PrecSep-21	
180-96048-4	WGWC-9	Total/NA	Water	PrecSep-21	
180-96048-5	WGWC-10	Total/NA	Water	PrecSep-21	
180-96048-8	WGWC-13	Total/NA	Water	PrecSep-21	
180-96048-10	WGWC-15	Total/NA	Water	PrecSep-21	
180-96048-13	WGWC-19	Total/NA	Water	PrecSep-21	
180-96048-14	EB-2 9-19-19	Total/NA	Water	PrecSep-21	
180-96048-15	FB-2 9-19-19	Total/NA	Water	PrecSep-21	
180-96048-16	DUP-1	Total/NA	Water	PrecSep-21	
180-96048-17	DUP-2	Total/NA	Water	PrecSep-21	
MB 160-444175/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-444175/2-B	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 444178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96048-1	WGWA-3	Total/NA	Water	PrecSep_0	
180-96048-2	WGWA-7	Total/NA	Water	PrecSep_0	
180-96048-4	WGWC-9	Total/NA	Water	PrecSep_0	
180-96048-5	WGWC-10	Total/NA	Water	PrecSep_0	
180-96048-8	WGWC-13	Total/NA	Water	PrecSep_0	
180-96048-10	WGWC-15	Total/NA	Water	PrecSep_0	
180-96048-13	WGWC-19	Total/NA	Water	PrecSep_0	
180-96048-14	EB-2 9-19-19	Total/NA	Water	PrecSep_0	
180-96048-15	FB-2 9-19-19	Total/NA	Water	PrecSep_0	
180-96048-16	DUP-1	Total/NA	Water	PrecSep_0	
180-96048-17	DUP-2	Total/NA	Water	PrecSep_0	
MB 160-444178/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-444178/2-B	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 444531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96048-3	WGWC-8	Total/NA	Water	PrecSep-21	
180-96048-6	WGWC-11	Total/NA	Water	PrecSep-21	
180-96048-7	WGWC-12	Total/NA	Water	PrecSep-21	
180-96048-9	WGWC-14A	Total/NA	Water	PrecSep-21	
180-96048-11	WGWC-16	Total/NA	Water	PrecSep-21	
180-96048-12	WGWC-17	Total/NA	Water	PrecSep-21	
MB 160-444531/18-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-444531/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 444558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-96048-3	WGWC-8	Total/NA	Water	PrecSep_0	
180-96048-6	WGWC-11	Total/NA	Water	PrecSep_0	
180-96048-7	WGWC-12	Total/NA	Water	PrecSep_0	
180-96048-9	WGWC-14A	Total/NA	Water	PrecSep_0	
180-96048-11	WGWC-16	Total/NA	Water	PrecSep_0	
180-96048-12	WGWC-17	Total/NA	Water	PrecSep_0	
MB 160-444558/18-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-444558/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Pittsburgh

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: J. Goble / H. Auld / B. Walker
 Phone: _____
 E-Mail: _____

Company: Southern Company
 Address: PO BOX 2641 GSC8
 City: Birmingham
 State, Zip: AL, 35291
 Phone: _____

PO #: SCS10347656
WO #: _____
Project #: 40007709
SSOW#: _____

Site: Georgia
Project Name: CCR - Plant Wansley - Ash Pond

Carrier Tracking No(s): _____
Lab PM: _____
E-Mail: _____

Page: 1 of 2
Job #: _____

Analysis Requested
 (See list below)
 Detected App IV Metals
 Radium 226 & 228 (SM-846 9315/9320)
 Total Number of Containers: 3

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Metals App. III (EPA 6020/740)	Cl, F, SO, & TDS (EPA 300.0 & SM 2540C)	D	N	Detected App IV Metals	Radium 226 & 228	(SM-846 9315/9320)
WGWA-3	9-18-19	1034	G	W		N	N	✓	✓	✓	✓	✓	✓	✓
WGWA-7	9-18-19	1146	G	W		N	N	✓	✓	✓	✓	✓	✓	✓
WUNC-8	9-19-19	1045	G	W		N	N	✓	✓	✓	✓	✓	✓	✓
WUNC-9	9-19-19	1352	G	W		N	N	✓	✓	✓	✓	✓	✓	✓
WUNC-10	9-19-19	1225	G	W		N	N	✓	✓	✓	✓	✓	✓	✓
WUNC-11	9-19-19	1325	G	W		N	N	✓	✓	✓	✓	✓	✓	✓
WUNC-12	9-19-19	1031	G	W		N	N	✓	✓	✓	✓	✓	✓	✓
WUNC-13	9-18-19	1225	G	W		N	N	✓	✓	✓	✓	✓	✓	✓
WUNC-14A	9-18-19	1335	G	W		N	N	✓	✓	✓	✓	✓	✓	✓
WUNC-15	9-18-19	1427	G	W		N	N	✓	✓	✓	✓	✓	✓	✓
WUNC-16	9-18-19	1306	G	W		N	N	✓	✓	✓	✓	✓	✓	✓

Special Instructions/Note:
APP III
180-96048 Chain of Custody

Preservation Codes:
 A - HCl
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDTA
 Other:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Z - other (specify)

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

Deliverable Requested: 1, 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: _____
Relinquished by: Taylor Goble
 Date: 9-20-19
Relinquished by: _____
 Date: 9/20/19
Relinquished by: _____
 Date: 9/20/19

Method of Shipment: _____
Received by: _____
 Date/Time: 9/20/19 14:00
Company: ACC
Received by: _____
 Date/Time: 9-21-19
Company: CTA
Received by: _____
 Date/Time: 9:30
Company: _____

Custody Seal No.: _____
 Custody Seals Intact:
 Δ Yes Δ No

Detected APP II: Metals: Arsenic Barium Beryllium Cadmium Chromium Cobalt Lead Lithium Molybdenum Selenium Thallium; Radium Fluoride

Cooler Temperature(s) °C and Other Remarks: _____



Chain of Custody Record

Client Information		Sampler: T. Goble / H. Avard / B. Wells		Lab PM:		Carrier Tracking No(s):		COC No:				
Client Contact: Joju Abraham		Phone:		E-Mail:				Page: 2 of 2				
Company: Southern Company		Address: PO BOX 2641 GSC8		City: Birmingham		State, Zip: AL, 35291		Job #:				
PO #: SCS10347656		WO #:		Due Date Requested:		TAT Requested (days):		Preservation Codes:				
Email: JAbraham@southernco.com		Project #: 40007709		SSOW#:		Field Filtered Sample (Yes or No)		Total Number of Containers				
Project Name: CCR - Plant Wansley - Ash Pond		Site: Georgia		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)				
Matrix (W=water, S=solid, O=wasteloid, BT=Tissue, A=Air)		Preservation Code:		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)				
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteloid, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Metals App. III (EPA 6020/7470)	CI, T, SO, & TDS (EPA 300.0 & SM 2540C)	Detected App IV Metals (See list below)	Radium 226 & 228 (SM-846 9315/9320)	Analysis Requested	Special Instructions/Note:
WGWC-17	9-18-19	1120	G	W	W	W	W	W	W	W	W	APP III
WGWC-19	9-18-19	1205	G	W	W	W	W	W	W	W	W	Extra Radium bottle
EB-2	9-19-19	0930	G	W	W	W	W	W	W	W	W	
EB-2	9-19-19	1035	G	W	W	W	W	W	W	W	W	
Dup-1	9-18-19	-	G	W	W	W	W	W	W	W	W	
Dup-2	9-19-19	-	G	W	W	W	W	W	W	W	W	
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:		
Empty Kit Relinquished by:										Method of Shipment:		
Relinquished by: [Signature]										Date/Time: 9/20/19 14:00		
Relinquished by: [Signature]										Date/Time: 9/20/19 16:00		
Relinquished by: [Signature]										Date/Time: 9/21/19 9:30		
Custody Seals Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>										Cooler Temperature(s) °C and Other Remarks:		

151966 10/04 MWI

DR



ORIGIN ID:MULA (676
GEORGE TAYLOR
EUROFINSTESTAMERICA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

DATE: 20SEP19
58.55 LB
116/CAFE3211

TO SAMPLE REC
EUROFINS TEST
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH
(412) 983-7058
REF: SOUTHERN CO

Custody Seal
10-10-10

SIGNATURE



Environment Testing
TestAmerica

1129278

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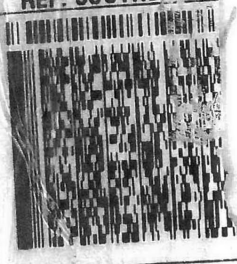
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2 of 5
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180-96048 Waybill



Uncorrected temp 1.3 °C
Thermometer ID 10

CF 0 Initials JS

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

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Prof. Environment Testing
America

Part # 154405-434 PRT2 EXP 042000

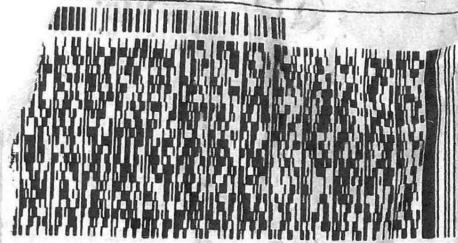
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LANTA

SHIP DATE EP19
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CSD: CAFE3211
RECIPIENT

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RGH PA 15238

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SATURDAY 12:00P
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PIT

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Thermometer ID

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Initials TS

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



6 1004 MMW



Environment Testing
TestAmerica

Part # 159469-434 RITZ EXP 05/20

Custody Seal
DATE
SIGNATURE

SIGNATURE



Environment Testing
TestAmerica

1129275

ORIGIN ID:MULA (678) 966-9991
GEORGE TAYLOR
EUROFINSTESTAMERICA, ATLANTA
6500 MCDONOUGH DRIVE

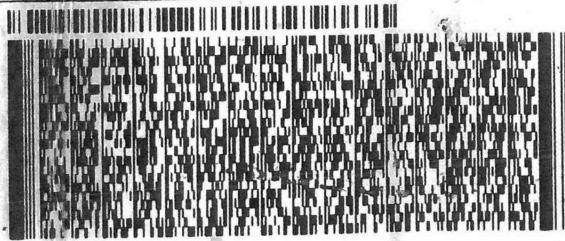
SHIP DATE: 20SEP19
ACTWGT: 58.55 LB
CAD: 859116/CAFE3211

NORCROSS, GA 30093
UNITED STATES US

BILL RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: SOUTHERN CO.



4 of 5

SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# 0263 **4651 0083 7662**

Meir# 4651 0083 7630

0201

XO AGCA

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PA-US **PIT**

Uncorrected temp
Thermometer ID

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CF 0 Initials B

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



DR



Environment Testing
TestAmerica

Custody Seal

SIGNATURE



Environment Testing
TestAmerica

ORIGIN ID:MULA (678) 966-8991
GEORGE TAYLOR
EUROFINSTESTAMERICA, ATLANTA
6500 MCDONOUGH DRIVE

SHIP DATE: 20SEP19
ACTWGT: 58.55 LB
CAD: 859116/CAFE3211

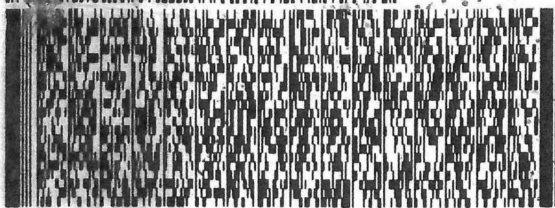
NORCROSS, GA 30093
UNITED STATES US

BILL-RECIPIENT

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058

REF: SOUTHERN CO.



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5 of 5

MPS# 4651 0083 7673
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0201

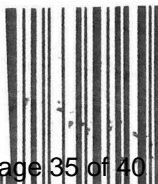
SATURDAY 12:00P
PRIORITY OVERNIGHT

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15238
PA-US PIT

Uncorrected temp 9.3 °C
Thermometer ID 10

CF 0 Initials TS



Effective 11/8/18

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FedEx Express

FedEx Saturday

1129279

[Handwritten Signature]
SIGNATURE

eurofins
Environment Testing
TestAmerica

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Environment Testing
TestAmerica

IGIN ID: MULA (678) 966-9991
ORGE TAYLOR
UROFINSTESTAMERICA, ATLANTA
500 MCDONOUGH DRIVE

SHIP DATE: 20SEP19
ACTWGT: 58.55 LB
CAD: 859116/CAFE3211

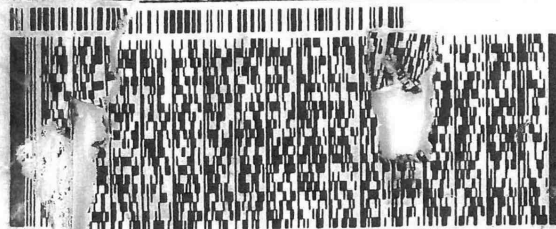
DRACROSS, GA 30093
UNITED STATES US

BILL RECIPIENT

SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7063

REF: SOUTHERN CO.



FedEx Express



1 of 5
TRK# 0201 4651 0083 7630
MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT

X() AGCA

15238
PA-US PIT

Uncorrected temp 1.3 °C
Thermometer ID 10

CF 0 Initials B

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

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96048-2

SDG Number: Ash Pond

Login Number: 96048

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: 180-96048-2

SDG Number: Ash Pond

Login Number: 96048

List Number: 2

Creator: Harris, Lorin C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 09/24/19 04:36 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96048-2

SDG Number: Ash Pond

Login Number: 96048

List Number: 3

Creator: Harris, Lorin C

List Source: Eurofins TestAmerica, St. Louis

List Creation: 09/24/19 05:02 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.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-96048-2

SDG Number: Ash Pond

Login Number: 96048

List Number: 4

Creator: Hellm, Michael

List Source: Eurofins TestAmerica, St. Louis

List Creation: 09/28/19 11:09 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.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	21.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



LEVEL 2A LABORATORY DATA VALIDATIONS

Plant Wansley Ash Pond

September 2019

Georgia Power Company – Plant Wansley Ash Pond

Quality Control Review of Analytical Data – September 2019

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins TestAmerica, Pittsburgh for groundwater samples collected at Plant Wansley between September 16, 2019 and September 19, 2019. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix. SDG 95960 associated with samples WGWA-1, WGWA-2, FB-1 9-17-19, WGWA-18, EB-1 9-17-19, WGWA-4, WGWA-6, and WGWA-5 was revised by the laboratory to add target analytes that were missing from the original laboratory report.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions (USEPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (USEPA 9315), and Radium-228 (USEPA Method 9320).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met, with the exception of radium duplicate analysis. There was insufficient sample volume for the laboratory to perform duplicate analysis of a field sample for radium-226 and radium-228. A laboratory control sample and a laboratory control sample duplicate were provided to demonstrate batch precision for these analyses.

Field Precision: Field goals for precision were met, with the exceptions of DUP-1 (180-96048-16) Total Dissolved Solids (TDS), Radium-226, Radium-228 and DUP-2 (180-96048-17) Radium-228 as described in the qualifications section below and Table 2.

Accuracy: Laboratory goals for accuracy were met, with the exception of Barium in SDG 96048 as described in the qualifications section below.

Detection Limits: Project goals for detection limits were met.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: Holding time requirements were met, with the exception of WGWA-5 (180-95960-8) TDS as described in the qualifications section below.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

J: The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample

U: The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The

applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Sample WGWA-5 (180-95960-8) was qualified as estimated (J) for TDS as it was analyzed outside the method-specified 7-day holding time by less than 24 hours due to laboratory error.
- Sample WGWA-5 (180-95960-8) was qualified as non-detect (U) for beryllium due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the method detection limit (MDL) was raised to the sample result as part of the qualification process.
- Sample WGWC-17 (180-96048-12) was qualified as estimated (J) for barium as the associated matrix spike duplicate recovery was below the QC criteria (74% below the range of 75-125).
- Certain duplicate results in SDG 96048 were qualified as estimated (J) as the field duplicate relative percent difference (RPD) exceeded QC criteria.
- Certain radium results in SDGs 95960 and 96048 were qualified as non-detect (U) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from the Plant Wansley Ash Pond sampled between September 16, 2019 and September 19, 2019 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – Plant Wansley Ash Pond

Sample Summary Table – September 2019

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
95960	WGWA-1	9/16/2019	180-95960-1	GW		X	X	X	X
95960	WGWA-2	9/17/2019	180-95960-2	GW		X	X	X	X
95960	FB-1 19-17-19	9/17/2019	180-95960-3	WQ	FB	X	X	X	X
96048	WGWA-3	9/18/2019	180-96048-1	GW		X	X	X	X
95960	WGWA-4	9/17/2019	180-95960-6	GW		X	X	X	X
95960	WGWA-5	9/16/2019	180-95960-8	GW		X	X	X	X
95960	WGWA-6	9/16/2019	180-95960-7	GW		X	X	X	X
96048	WGWA-7	9/18/2019	180-96048-2	GW		X	X	X	X
95960	WGWA-18	9/17/2019	180-95960-4	GW		X	X	X	X
95960	EB-1 9-17-19	9/17/2019	180-95960-5	WQ	EB	X	X	X	X
96048	WGWC-8	9/19/2019	180-96048-3	GW		X	X	X	X
96048	WGWC-9	9/19/2019	180-96048-4	GW		X	X	X	X
96048	WGWC-10	9/19/2019	180-96048-5	GW		X	X	X	X
96048	WGWC-11	9/19/2019	180-96048-6	GW		X	X	X	X
96048	WGWC-12	9/19/2019	180-96048-7	GW		X	X	X	X
96048	WGWC-13	9/18/2019	180-96048-8	GW		X	X	X	X
96048	WGWC-14A	9/18/2019	180-96048-9	GW		X	X	X	X
96048	WGWC-15	9/18/2019	180-96048-10	GW		X	X	X	X
96048	WGWC-16	9/18/2019	180-96048-11	GW		X	X	X	X
96048	WGWC-17	9/18/2019	180-96048-12	GW		X	X	X	X
96048	WGWC-19	9/18/2019	180-96048-13	GW		X	X	X	X
96048	EB-2 9-19-19	9/19/2019	180-96048-14	WQ	EB	X	X	X	X
96048	FB-2 9-19-19	9/19/2019	180-96048-15	WQ	FB	X	X	X	X
96048	DUP-1	9/18/2019	180-96048-16	GW	FD (WGWA-3)	X	X	X	X
96048	DUP-2	9/19/2019	180-96048-17	GW	FD (WGWC-12)	X	X	X	X

Abbreviations:

EB – Equipment Blank

FB – Field Blank

FD – Field Duplicate

GW – Groundwater

QC – Quality Control

TDS – Total Dissolved Solids

WQ – Water Quality Control

Product Name: Low-Flow System

Date: 2019-09-16 14:09:24

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley
Site Name Wansley-Ash Pond
Latitude 33° 26' 6.95"
Longitude -85° -1' -20.18"
Sonde SN 573204
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 129 ft

Pump placement from TOC 124 ft

Well Information:

Well ID WGWA-1
Well diameter 2 in
Well Total Depth 129.60 ft
Screen Length 10 ft
Depth to Water 29.15 ft

Pumping Information:

Final Pumping Rate 75 mL/min
Total System Volume 1.335202 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 4.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 25
Last 5	13:47:35	2100.95	25.27	5.32	37.48	0.99	29.34	2.78	174.49
Last 5	13:52:35	2400.94	24.99	5.29	32.37	0.76	29.36	2.75	178.23
Last 5	13:57:35	2700.92	25.22	5.30	37.36	1.55	29.37	2.99	178.08
Last 5	14:02:36	3001.91	25.27	5.30	37.23	1.18	29.39	3.30	179.52
Last 5	14:07:37	3302.90	25.29	5.28	37.19	1.27	29.40	3.14	183.07
Variance 0			0.23	0.00	4.99			0.24	-0.15
Variance 1			0.04	0.01	-0.13			0.30	1.44
Variance 2			0.02	-0.02	-0.04			-0.15	3.54

Notes

Sampled at 1407. Sunny 93 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-17 10:18:44

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley
Site Name Wansley-Ash Pond
Latitude 33° 26' 16.04"
Longitude -85° -1' -20.17"
Sonde SN 573204
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 102 ft

Pump placement from TOC 97 ft

Well Information:

Well ID WGWA-2
Well diameter 2 in
Well Total Depth 102.65 ft
Screen Length 10 ft
Depth to Water 14.32 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 1.074579 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 25
Last 5	09:57:42	1199.97	19.49	6.25	132.71	1.17	14.78	1.19	108.40
Last 5	10:02:42	1499.96	19.58	6.24	132.14	1.33	14.82	1.04	111.90
Last 5	10:07:42	1799.94	19.53	6.24	131.72	1.13	14.86	0.94	114.87
Last 5	10:12:42	2099.93	19.60	6.24	131.78	1.76	14.90	0.85	116.73
Last 5	10:17:43	2400.92	19.48	6.25	132.42	1.62	14.94	0.78	118.40
Variance 0			-0.04	-0.00	-0.42			-0.11	2.97
Variance 1			0.07	0.00	0.06			-0.09	1.86
Variance 2			-0.12	0.00	0.64			-0.07	1.67

Notes

Sampled at 1017. Sunny 80 degrees. FB-1 taken here at 1020

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-18 10:34:51

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Wansley
Site Name Plant Wansley Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440279
Turbidity Make/Model Hatch 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 19 ft

Pump placement from TOC 14 ft

Well Information:

Well ID WGWA-3
Well diameter 2 in
Well Total Depth 19 ft
Screen Length 10 ft
Depth to Water 4.75 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.4748051 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	10:14:05	600.03	19.44	5.60	33.20	0.36	4.80	5.95	62.92
Last 5	10:19:05	900.03	19.41	5.62	33.12	0.32	4.80	5.90	62.19
Last 5	10:24:05	1200.02	19.41	5.63	33.11	0.38	4.80	5.85	62.26
Last 5	10:29:05	1500.02	19.46	5.63	33.09	0.30	4.80	5.89	62.13
Last 5	10:34:05	1800.02	19.59	5.62	33.03	0.31	4.80	5.85	62.83
Variance 0			0.00	0.00	-0.00			-0.06	0.08
Variance 1			0.04	0.00	-0.02			0.04	-0.13
Variance 2			0.13	-0.01	-0.06			-0.03	0.71

Notes

Sampled at 10:34. Sunny, 80's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-17 15:26:33

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley
Site Name Wansley-Ash Pond
Latitude 33° 24' 29.37"
Longitude -85° -3' -55.17"
Sonde SN 573204
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 73 ft

Pump placement from TOC 68 ft

Well Information:

Well ID WGWA-4
Well diameter 2 in
Well Total Depth 73.90 ft
Screen Length 10 ft
Depth to Water 7.55 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.7946494 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 11 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 25
Last 5	15:05:10	1198.82	19.98	6.94	137.49	0.57	8.20	0.29	46.39
Last 5	15:10:10	1498.84	19.63	6.92	135.49	0.50	8.26	0.66	40.18
Last 5	15:15:10	1798.80	19.67	6.93	134.62	0.44	8.30	0.51	34.24
Last 5	15:20:10	2098.61	19.48	6.92	133.76	0.71	8.34	0.58	29.24
Last 5	15:25:11	2399.59	19.51	6.93	133.24	0.75	8.38	0.44	24.50
Variance 0			0.04	0.01	-0.87			-0.15	-5.94
Variance 1			-0.18	-0.01	-0.86			0.07	-4.99
Variance 2			0.02	0.01	-0.52			-0.15	-4.74

Notes

Sampled at 1525. Sunny 97 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-16 15:50:06

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Wansley
Site Name Plant Wansley Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440279
Turbidity Make/Model Hatch 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 23 ft

Pump placement from TOC 19 ft

Well Information:

Well ID WGWA-5
Well diameter 2 in
Well Total Depth 22.19 ft
Screen Length 10 ft
Depth to Water 17.86 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4926587 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 46 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	15:29:08	4200.22	21.98	6.85	314.18	1.82	21.30	0.23	58.10
Last 5	15:34:08	4500.22	22.86	6.86	318.08	1.93	21.40	0.24	58.23
Last 5	15:39:08	4800.22	23.00	6.90	315.78	2.04	21.50	0.24	58.70
Last 5	15:44:08	5100.13	22.63	6.94	314.19	2.12	21.60	0.24	58.84
Last 5	15:49:08	5400.13	22.63	6.94	321.84	2.58	21.70	0.26	58.79
Variance 0			0.14	0.04	-2.29			-0.00	0.47
Variance 1			-0.38	0.04	-1.59			0.00	0.14
Variance 2			0.00	-0.01	7.65			0.02	-0.05

Notes

Sampled at 15:49. Sunny, 90's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-16 13:41:37

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Wansley
Site Name Plant Wansley Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440279
Turbidity Make/Model Hatch 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 104 ft

Pump placement from TOC 99 ft

Well Information:

Well ID WGWA-6
Well diameter 2 in
Well Total Depth 104.50 ft
Screen Length 10 ft
Depth to Water 17.62 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.854196 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	13:21:02	2405.08	20.99	7.40	176.34	0.87	18.50	0.55	27.95
Last 5	13:26:02	2705.08	20.85	7.45	176.47	0.56	18.50	0.51	25.53
Last 5	13:31:02	3005.08	20.79	7.49	176.12	0.47	18.60	0.50	22.75
Last 5	13:36:02	3305.08	20.56	7.53	176.09	0.48	18.60	0.47	20.05
Last 5	13:41:02	3605.08	20.72	7.55	175.77	0.31	18.60	0.44	17.65
Variance 0			-0.06	0.04	-0.36			-0.01	-2.79
Variance 1			-0.23	0.04	-0.03			-0.03	-2.69
Variance 2			0.15	0.02	-0.32			-0.03	-2.41

Notes

Sampled at 13:40. Sunny, 90's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-18 11:47:45

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley
Site Name Wansley-Ash Pond
Latitude 33° 24' 53.78"
Longitude -85° -3' -37.9"
Sonde SN 573204
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type Peristaltic
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 30 ft

Pump placement from TOC ft

Well Information:

Well ID WGWA-7
Well diameter 2 in
Well Total Depth 39.60 ft
Screen Length 10 ft
Depth to Water 28.43 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.3795819 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 25
Last 5	11:26:15	2402.42	19.71	5.77	29.60	1.76	28.59	6.44	106.59
Last 5	11:31:15	2702.41	19.53	5.70	28.73	1.27	28.60	6.58	115.66
Last 5	11:36:15	3002.39	19.59	5.63	27.97	1.21	28.61	6.61	123.61
Last 5	11:41:15	3302.37	19.52	5.61	27.20	1.00	28.62	6.62	130.12
Last 5	11:46:15	3602.35	19.51	5.60	27.01	1.03	28.63	6.99	135.37
Variance 0			0.05	-0.06	-0.76			0.03	7.96
Variance 1			-0.07	-0.02	-0.76			0.01	6.51
Variance 2			-0.01	-0.01	-0.20			0.36	5.25

Notes

Sampled at 1146. Sunny 83 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-17 13:44:09

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley
Site Name Wansley-Ash Pond
Latitude 33° 25' 6.45"
Longitude -85° -3' -17.46"
Sonde SN 573204
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 40 ft

Pump placement from TOC 35 ft

Well Information:

Well ID WGWA-18
Well diameter 2 in
Well Total Depth 40.0 ft
Screen Length 10 ft
Depth to Water 21.77 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.4761093 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 16 in
Total Volume Pumped 13 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 25
Last 5	13:21:28	6304.14	20.07	6.63	111.36	0.83	23.22	1.66	127.15
Last 5	13:26:28	6604.12	20.02	6.57	108.03	0.88	23.27	1.71	128.46
Last 5	13:31:28	6904.10	20.28	6.54	104.86	0.95	23.33	1.75	129.82
Last 5	13:36:28	7204.08	20.29	6.50	102.54	1.16	23.35	1.74	130.98
Last 5	13:41:28	7504.07	20.50	6.47	99.71	1.25	23.37	1.69	132.27
Variance 0			0.26	-0.04	-3.17			0.04	1.36
Variance 1			0.01	-0.04	-2.32			-0.01	1.15
Variance 2			0.21	-0.03	-2.83			-0.05	1.29

Notes

Sampled at 1341. Sunny 95 degrees. EB-1 taken here at 1310

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-19 10:52:38

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Wansley - Ash Pond
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646773
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 59 ft

Pump placement from TOC 54 ft

Well Information:

Well ID WGWC-8
Well diameter 2 in
Well Total Depth 59.4 ft
Screen Length 10 ft
Depth to Water 7.30 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.9595111 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 16.8 in
Total Volume Pumped 3.3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	10:22:44	600.03	21.08	5.51	624.88	2.40	8.30	1.09	103.11
Last 5	10:27:44	900.07	20.96	5.46	624.88	1.20	8.40	1.22	101.41
Last 5	10:32:44	1200.06	20.84	5.42	613.73	1.10	8.50	1.00	103.69
Last 5	10:37:44	1500.03	20.84	5.41	620.78	0.80	8.60	0.99	104.23
Last 5	10:42:44	1800.03	20.89	5.39	630.01	0.70	8.70	1.07	105.07
Variance 0			-0.12	-0.03	-11.14			-0.22	2.28
Variance 1			0.00	-0.01	7.05			-0.01	0.54
Variance 2			0.05	-0.02	9.22			0.09	0.85

Notes

Sampled at 1045 on 9-19-19. Sunny, 80s. FB-2-9-19-19 here at 1035.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-19 13:54:54

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Wansley - Ash Pond
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646773
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type peristaltic Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 61 ft

Pump placement from TOC 55 ft

Well Information:

Well ID WGWC-9
Well diameter 2 in
Well Total Depth 61.42 ft
Screen Length 10 ft
Depth to Water 20.21 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6788166 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 22.7 in
Total Volume Pumped 2.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	13:30:10	300.03	23.61	6.40	154.12	0.60	21.40	4.47	79.27
Last 5	13:35:10	600.03	23.84	6.38	154.91	0.80	21.70	4.34	78.86
Last 5	13:40:10	900.03	24.15	6.37	154.86	1.30	21.90	4.30	78.88
Last 5	13:45:10	1200.03	24.03	6.38	154.35	1.10	22.00	4.26	79.26
Last 5	13:50:10	1500.03	24.38	6.38	155.07	0.90	22.10	4.24	79.47
Variance 0			0.31	-0.01	-0.05			-0.04	0.02
Variance 1			-0.12	0.00	-0.51			-0.04	0.37
Variance 2			0.34	-0.00	0.72			-0.01	0.22

Notes

Sampled at 1352 on 9-19-19. Sunny, 80s. EB-2-9-19-19 poured at 0930.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-19 12:24:51

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Wansley - Ash Pond
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646773
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 127 ft

Pump placement from TOC 122 ft

Well Information:

Well ID WGWC-10
Well diameter 2 in
Well Total Depth 147.16 ft
Screen Length 50 ft
Depth to Water 18.46 ft

Pumping Information:

Final Pumping Rate 80 mL/min
Total System Volume 1.615897 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 16.1 in
Total Volume Pumped 4.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	11:59:10	1800.03	21.11	6.38	74.71	6.40	19.60	4.16	73.90
Last 5	12:04:10	2100.03	21.06	6.40	74.65	6.80	19.70	4.46	73.31
Last 5	12:09:10	2400.03	20.98	6.44	74.34	7.10	19.80	4.59	71.53
Last 5	12:14:10	2700.03	20.93	6.44	74.42	6.50	19.80	4.62	71.76
Last 5	12:19:10	3000.03	21.21	6.45	75.26	4.80	19.80	4.71	71.34
Variance 0			-0.08	0.04	-0.31			0.13	-1.78
Variance 1			-0.05	-0.01	0.08			0.03	0.23
Variance 2			0.29	0.01	0.84			0.09	-0.42

Notes

Sampled at 1225 on 9-19-19. Sunny, 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-19 13:25:54

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley
Site Name Wansley-Ash Pond
Latitude 33° 24' 29.4"
Longitude -85° -3' -14.83"
Sonde SN 573204
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 50 ft

Pump placement from TOC 45 ft

Well Information:

Well ID WGWC-11
Well diameter 2 in
Well Total Depth 49.50 ft
Screen Length 10 ft
Depth to Water 25.62 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.5726365 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 25
Last 5	13:05:22	600.00	20.20	5.86	35.74	2.26	25.75	7.53	146.78
Last 5	13:10:22	899.98	20.16	5.84	35.90	3.10	25.81	7.67	151.03
Last 5	13:15:22	1199.96	20.24	5.83	36.27	3.33	25.88	7.53	155.67
Last 5	13:20:22	1499.95	20.29	5.82	36.27	3.47	25.92	7.58	159.48
Last 5	13:25:22	1799.93	20.35	5.82	36.66	4.23	25.96	7.83	167.11
Variance 0			0.09	-0.01	0.37			-0.14	4.64
Variance 1			0.05	-0.01	-0.00			0.05	3.81
Variance 2			0.05	0.00	0.39			0.25	7.62

Notes

Sampled at 1325. Sunny 82 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-19 10:32:39

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley
Site Name Wansley-Ash Pond
Latitude 33° 24' 28.79"
Longitude -85° -3' -15.07"
Sonde SN 573204
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 77 ft

Pump placement from TOC 72 ft

Well Information:

Well ID WGWC-12
Well diameter 2 in
Well Total Depth 76.57 ft
Screen Length 10 ft
Depth to Water 25.27 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.8332603 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 5.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 25
Last 5	10:11:20	899.98	19.40	6.64	116.80	2.05	25.52	1.86	48.47
Last 5	10:16:20	1199.96	19.53	6.61	116.69	2.12	25.57	1.44	44.88
Last 5	10:21:19	1499.93	19.77	6.60	117.21	2.00	25.61	1.19	42.87
Last 5	10:26:19	1799.92	19.88	6.61	118.01	1.76	25.66	1.17	40.90
Last 5	10:31:19	2099.91	20.02	6.63	119.53	1.81	25.72	1.05	39.85
Variance 0			0.24	-0.01	0.52			-0.24	-2.01
Variance 1			0.11	0.01	0.80			-0.03	-1.97
Variance 2			0.13	0.01	1.52			-0.12	-1.05

Notes

Sampled at 1031. Sunny 74 degrees. DUP 2 here

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-18 12:29:17

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Wansley - Ash Pond
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646773
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 95 ft

Pump placement from TOC 90 ft

Well Information:

Well ID WGWC-13
Well diameter 2 in
Well Total Depth 95.55 ft
Screen Length 10 ft
Depth to Water 25.05 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 1.30701 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17.4 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	12:03:25	300.05	23.12	6.49	78.73	4.30	25.80	0.84	74.29
Last 5	12:08:25	600.03	21.40	6.44	84.70	3.50	26.20	0.47	76.85
Last 5	12:13:25	900.03	22.00	6.45	90.95	4.10	26.30	0.75	77.64
Last 5	12:18:25	1200.03	23.10	6.46	92.05	3.90	26.40	0.77	77.71
Last 5	12:23:25	1500.03	23.48	6.46	92.17	3.50	26.50	0.75	78.13
Variance 0			0.60	0.01	6.24			0.28	0.79
Variance 1			1.10	0.01	1.10			0.02	0.07
Variance 2			0.38	0.00	0.12			-0.02	0.43

Notes

Sampled at 1225 on 9-18-19. Sunny, 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-18 13:39:06

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Wansley - Ash Pond
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646773
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type peristaltic Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID WGWC-14A
Well diameter 2 in
Well Total Depth 43.08 ft
Screen Length 10 ft
Depth to Water 25.42 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.5050675 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9.4 in
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	13:12:39	300.04	23.31	5.56	44.70	2.20	25.90	0.86	84.21
Last 5	13:17:39	600.03	22.60	5.53	45.07	2.10	26.00	0.46	86.39
Last 5	13:22:39	900.03	22.45	5.51	45.01	1.20	26.10	0.38	89.13
Last 5	13:27:39	1200.03	22.18	5.51	43.95	1.10	26.20	0.31	90.85
Last 5	13:32:39	1500.03	22.26	5.50	43.77	1.30	26.30	0.27	92.52
Variance 0			-0.15	-0.02	-0.06			-0.09	2.74
Variance 1			-0.26	-0.00	-1.07			-0.07	1.72
Variance 2			0.08	-0.01	-0.17			-0.04	1.67

Notes

Sampled at 1335 on 9-18-19. Sunny, 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-18 14:28:36

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley
Site Name Wansley-Ash Pond
Latitude 33° 24' 25.43"
Longitude -85° -3' -36.95"
Sonde SN 573204
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 53 ft

Pump placement from TOC 48 ft

Well Information:

Well ID WGWC-15
Well diameter 2 in
Well Total Depth 53.36 ft
Screen Length 10 ft
Depth to Water 20.93 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.6015947 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 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			+/- 1	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 25
Last 5	14:07:43	2100.86	25.44	7.63	301.02	1.55	21.55	3.78	79.42
Last 5	14:12:43	2400.85	25.31	7.69	281.33	1.41	21.63	3.64	73.00
Last 5	14:17:43	2700.83	25.62	7.75	299.57	1.48	21.69	3.75	76.82
Last 5	14:22:43	3000.59	25.82	7.78	296.77	1.20	21.72	3.84	81.47
Last 5	14:27:43	3300.58	25.82	7.80	294.19	1.33	21.74	4.00	93.17
Variance 0			0.30	0.06	18.24			0.11	3.83
Variance 1			0.21	0.03	-2.80			0.09	4.64
Variance 2			-0.00	0.02	-2.58			0.16	11.70

Notes

Sampled at 1427. Sunny 91 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-18 13:07:46

Project Information:

Operator Name Taylor Goble
Company Name ACC
Project Name Plant Wansley
Site Name Wansley-Ash Pond
Latitude 33° 24' 25.35"
Longitude -85° -3' -36.87"
Sonde SN 573204
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 34 ft

Pump placement from TOC 29 ft

Well Information:

Well ID WGWC-16
Well diameter 2 in
Well Total Depth 34.78 ft
Screen Length 10 ft
Depth to Water 20.16 ft

Pumping Information:

Final Pumping Rate 125 mL/min
Total System Volume 0.4181929 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 1	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 25
Last 5	12:46:52	599.90	18.91	5.18	634.46	0.77	20.23	4.30	191.18
Last 5	12:51:51	899.64	18.69	5.18	620.08	0.89	20.23	4.12	198.63
Last 5	12:56:51	1199.80	18.64	5.18	618.50	0.72	20.23	4.37	201.83
Last 5	13:01:51	1499.78	18.73	5.19	617.91	0.60	20.23	4.20	206.42
Last 5	13:06:51	1799.47	18.72	5.19	621.31	0.63	20.23	4.20	208.90
Variance 0			-0.05	0.00	-1.58			0.24	3.20
Variance 1			0.09	0.00	-0.59			-0.16	4.60
Variance 2			-0.01	0.00	3.39			-0.01	2.48

Notes

Sampled at 1306. Sunny 87 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-18 11:20:19

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Wansley - Ash Pond
Site Name Plant Wansley
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646773
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 95 ft

Pump placement from TOC 90 ft

Well Information:

Well ID WGWC-17
Well diameter 2 in
Well Total Depth 95.94 ft
Screen Length 10 ft
Depth to Water 30.34 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 1.30701 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 10.3 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			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	10:54:51	600.03	20.66	6.19	99.84	3.40	31.20	2.93	75.41
Last 5	10:59:51	900.03	20.58	6.18	82.68	2.60	31.20	3.15	75.55
Last 5	11:04:51	1200.03	20.48	6.18	98.61	2.20	31.20	3.03	75.41
Last 5	11:09:51	1500.03	20.42	6.18	98.90	1.80	31.20	3.07	75.77
Last 5	11:14:51	1800.04	20.40	6.17	99.19	2.50	31.20	2.94	76.86
Variance 0			-0.10	-0.00	15.93			-0.11	-0.13
Variance 1			-0.06	-0.00	0.29			0.04	0.36
Variance 2			-0.03	-0.01	0.29			-0.13	1.09

Notes

Sampled at 1120 on 9-18-19. Sunny, 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-18 12:06:05

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Wansley
Site Name Plant Wansley Ash Pond
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 440279
Turbidity Make/Model Hatch 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 94 ft

Pump placement from TOC 89 ft

Well Information:

Well ID WGWC-19
Well diameter 2 in
Well Total Depth 94.84 ft
Screen Length 10 ft
Depth to Water 20.81 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.8095618 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 11 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	11:45:06	600.11	20.25	6.69	142.22	1.67	21.60	0.95	60.43
Last 5	11:50:05	900.05	19.80	6.71	137.93	1.04	21.70	0.73	61.53
Last 5	11:55:05	1200.02	19.77	6.71	137.78	0.82	21.70	0.74	61.89
Last 5	12:00:05	1500.02	19.69	6.72	138.04	0.87	21.70	0.67	62.33
Last 5	12:05:05	1800.02	20.22	6.71	138.36	0.68	21.70	0.67	62.45
Variance 0			-0.03	0.00	-0.14			0.01	0.36
Variance 1			-0.08	0.01	0.26			-0.07	0.43
Variance 2			0.53	-0.00	0.32			-0.00	0.12

Notes

Sampled at 12:05. Sunny, 80's. Extra rad here

Grab Samples

APPENDIX B

Statistical Analyses

100% ND

Date: 6/6/2019 1:00 PM

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

Boron (mg/L)

WGWC-14A, WGWC-15

Cadmium (mg/L)

WGWC-10, WGWC-11, WGWC-12, WGWC-13, WGWC-14A, WGWC-15, WGWC-17, WGWC-19, WGWC-8, WGWC-9

Chromium (mg/L)

WGWC-12, WGWC-14A, WGWC-16, WGWC-17, WGWC-19, WGWC-8

Cobalt (mg/L)

WGWC-15

Lead (mg/L)

WGWC-12, WGWC-14A, WGWC-15, WGWC-19

Molybdenum (mg/L)

WGWC-16, WGWC-8

Selenium (mg/L)

WGWC-13, WGWC-17

Thallium (mg/L)

WGWC-11, WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-19, WGWC-8, WGWC-9

Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/6/2019, 1:23 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	WGWC-10	0.05	4/4/2019	0.024	No	95	100	n/a	0.0002141	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-11	0.05	4/3/2019	0.05ND	No	95	100	n/a	0.0002141	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-12	0.05	4/3/2019	0.05ND	No	95	100	n/a	0.0002141	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-13	0.05	4/3/2019	0.05ND	No	95	100	n/a	0.0002141	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-16	0.05	4/4/2019	3.2	Yes	95	100	n/a	0.0002141	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-17	0.05	4/4/2019	0.049	No	95	100	n/a	0.0002141	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-19	0.05	4/2/2019	0.05ND	No	95	100	n/a	0.0002141	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.05	4/3/2019	1.7	Yes	95	100	n/a	0.0002141	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.05	4/3/2019	0.35	Yes	95	100	n/a	0.0002141	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-10	52	4/4/2019	7.9	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-11	52	4/3/2019	1.7	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-12	52	4/3/2019	14	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-13	52	4/3/2019	4.7	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-14A	52	4/3/2019	0.84	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-15	52	4/4/2019	30	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-16	52	4/4/2019	110	Yes	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-17	52	4/4/2019	5.6	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-19	52	4/2/2019	11	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-8	52	4/3/2019	61	Yes	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-9	52	4/3/2019	7.2	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-10	6.05	4/4/2019	1.4	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-11	6.05	4/3/2019	3.3	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-12	6.05	4/3/2019	3	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-13	6.05	4/3/2019	1.2	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-14A	6.05	4/3/2019	2.4	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-15	6.05	4/4/2019	3.7	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-16	6.05	4/4/2019	170	Yes	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-17	6.05	4/4/2019	1.4	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-19	6.05	4/2/2019	2.5	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-8	6.05	4/3/2019	70	Yes	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-9	6.05	4/3/2019	2	No	95	0	n/a	0.0002141	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-10	0.284	4/4/2019	0.13	No	111	56.76	n/a	0.0001605	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-11	0.284	4/3/2019	0.048	No	111	56.76	n/a	0.0001605	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-12	0.284	4/3/2019	0.084	No	111	56.76	n/a	0.0001605	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-13	0.284	4/3/2019	0.24	No	111	56.76	n/a	0.0001605	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-14A	0.284	4/3/2019	0.048	No	111	56.76	n/a	0.0001605	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-15	0.284	4/4/2019	0.78	Yes	111	56.76	n/a	0.0001605	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-16	0.284	4/4/2019	0.08	No	111	56.76	n/a	0.0001605	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-17	0.284	4/4/2019	0.087	No	111	56.76	n/a	0.0001605	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-19	0.284	4/2/2019	0.33	Yes	111	56.76	n/a	0.0001605	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-8	0.284	4/3/2019	0.5	Yes	111	56.76	n/a	0.0001605	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-9	0.284	4/3/2019	1.3	Yes	111	56.76	n/a	0.0001605	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	WGWC-10	21	4/4/2019	2.2	No	95	26.32	n/a	0.0002141	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-11	21	4/3/2019	1.9	No	95	26.32	n/a	0.0002141	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-12	21	4/3/2019	13	No	95	26.32	n/a	0.0002141	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-13	21	4/3/2019	3.8	No	95	26.32	n/a	0.0002141	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-14A	21	4/3/2019	3.8	No	95	26.32	n/a	0.0002141	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-15	21	4/4/2019	41	Yes	95	26.32	n/a	0.0002141	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-16	21	4/4/2019	250	Yes	95	26.32	n/a	0.0002141	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-17	21	4/4/2019	9.1	No	95	26.32	n/a	0.0002141	NP Inter (normality) 1 of 2

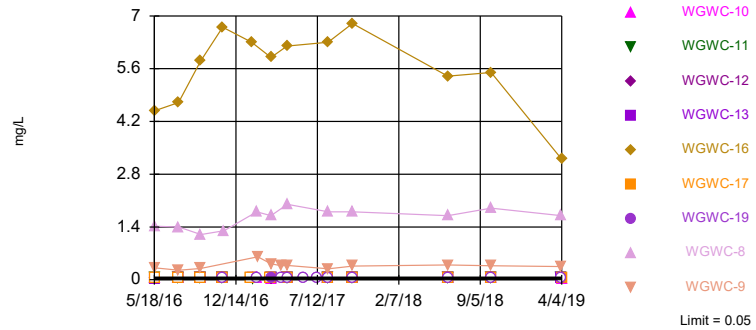
Interwell Prediction Limit

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/6/2019, 1:23 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Sulfate (mg/L)	WGWC-19	21	4/2/2019	3.8	No	95	26.32	n/a	0.0002141	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-8	21	4/3/2019	180	Yes	95	26.32	n/a	0.0002141	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-9	21	4/3/2019	41	Yes	95	26.32	n/a	0.0002141	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-10	150	4/4/2019	30	No	95	10.53	n/a	0.0002141	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-11	150	4/3/2019	5ND	No	95	10.53	n/a	0.0002141	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-12	150	4/3/2019	66	No	95	10.53	n/a	0.0002141	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-13	150	4/3/2019	72	No	95	10.53	n/a	0.0002141	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-14A	150	4/3/2019	31	No	95	10.53	n/a	0.0002141	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-15	150	4/4/2019	170	Yes	95	10.53	n/a	0.0002141	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-16	150	4/4/2019	710	Yes	95	10.53	n/a	0.0002141	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-17	150	4/4/2019	89	No	95	10.53	n/a	0.0002141	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-19	150	4/2/2019	88	No	95	10.53	n/a	0.0002141	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-8	150	4/3/2019	430	Yes	95	10.53	n/a	0.0002141	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-9	150	4/3/2019	120	No	95	10.53	n/a	0.0002141	NP Inter (normality) 1 of 2

Exceeds Limit: WGWC-16, WGWC-8, WGWC-9

Boron Interwell Non-parametric

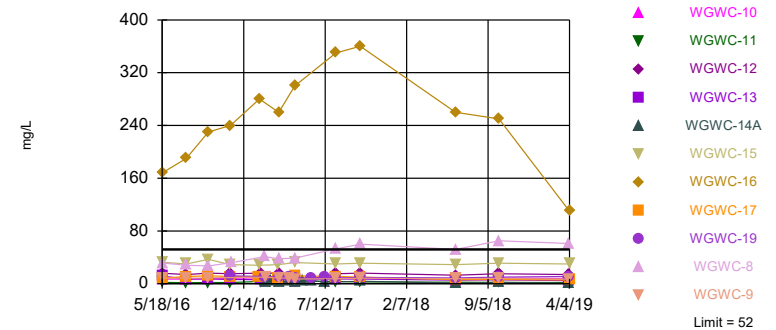


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 95) were censored; limit is most recent reporting limit. Annual per-constituent alpha = 0.004701. Individual comparison alpha = 0.0002141 (1 of 2). Comparing 9 points to limit. Assumes 2 future values.

Prediction Limit Analysis Run 6/6/2019 1:20 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-16, WGWC-8

Calcium Interwell Non-parametric

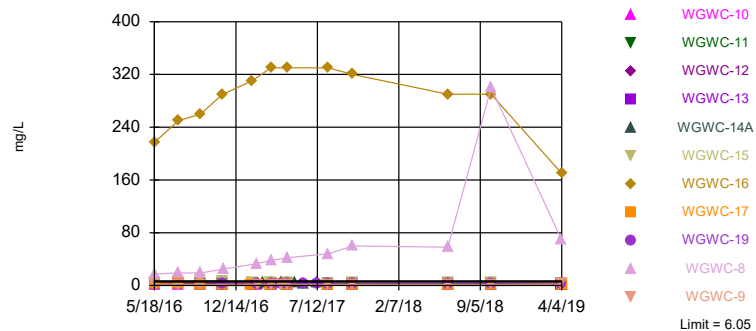


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 95 background values. Annual per-constituent alpha = 0.004701. Individual comparison alpha = 0.0002141 (1 of 2). Comparing 11 points to limit.

Prediction Limit Analysis Run 6/6/2019 1:20 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-16, WGWC-8

Chloride Interwell Non-parametric

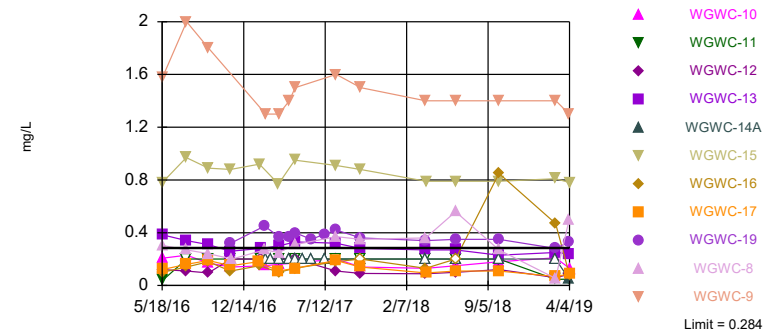


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 95 background values. Annual per-constituent alpha = 0.004701. Individual comparison alpha = 0.0002141 (1 of 2). Comparing 11 points to limit.

Prediction Limit Analysis Run 6/6/2019 1:20 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-15, WGWC-19, WGWC-8, WGWC-9

Fluoride Interwell Non-parametric

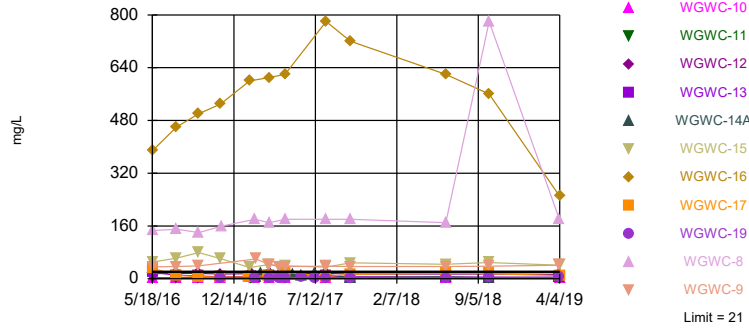


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 111 background values. 56.76% NDs. Annual per-constituent alpha = 0.003525. Individual comparison alpha = 0.0001605 (1 of 2). Comparing 11 points to limit.

Prediction Limit Analysis Run 6/6/2019 1:20 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-15, WGWC-16, WGWC-8, WGWC-9

Sulfate Interwell Non-parametric



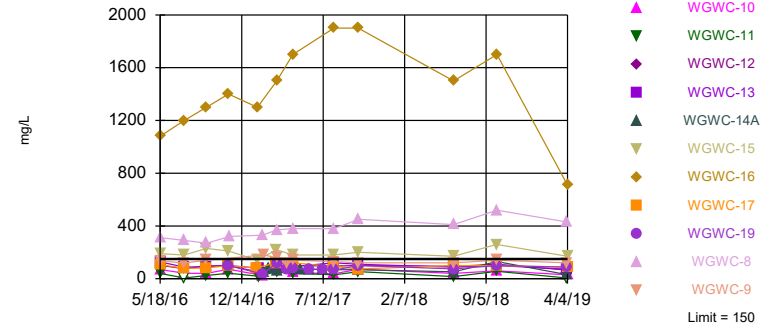
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 95 background values. 26.32% NDs. Annual per-constituent alpha = 0.004701. Individual comparison alpha = 0.0002141 (1 of 2). Comparing 11 points to limit.

Prediction Limit Analysis Run 6/6/2019 1:20 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Exceeds Limit: WGWC-15, WGWC-16, WGWC-8

Total Dissolved Solids Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 95 background values. 10.53% NDs. Annual per-constituent alpha = 0.004701. Individual comparison alpha = 0.0002141 (1 of 2). Comparing 11 points to limit.

Prediction Limit Analysis Run 6/6/2019 1:20 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-16	WGWA-6 (bg)	WGWC-17	WGWA-5 (bg)
5/17/2016	<0.05	<0.05	<0.05						
5/18/2016				<0.05	<0.05	4.48	<0.05	<0.05	<0.05
5/19/2016									
7/19/2016	<0.05	<0.05	<0.05		<0.05	4.7	<0.05		<0.05
7/20/2016				<0.05				<0.05	
9/13/2016	<0.05	<0.05	<0.05		<0.05		<0.05		
9/14/2016				<0.05		5.8		<0.05	<0.05
9/15/2016									
11/9/2016	<0.05	<0.05	<0.05				<0.05		
11/10/2016					<0.05	6.7		<0.05	
11/11/2016				<0.05					
11/14/2016									
1/17/2017	<0.05		<0.05						
1/18/2017					<0.05		<0.05		
1/19/2017		<0.05							<0.05
1/20/2017								<0.05	
1/24/2017						6.3			
1/27/2017									
2/6/2017				<0.05					
2/9/2017									
3/13/2017	<0.05		<0.05						
3/14/2017		<0.05			<0.05		<0.05	<0.05	<0.05
3/15/2017				0.032 (J)		5.9			
4/11/2017									
4/24/2017	<0.05		<0.05						
4/25/2017		<0.05			<0.05	6.2	<0.05	<0.05	<0.05
4/26/2017				<0.05					
6/7/2017									
7/11/2017									
8/8/2017	<0.05	<0.05	<0.05		<0.05		<0.05		
8/9/2017						6.3		<0.05	<0.05
8/10/2017				<0.05					
10/10/2017	<0.05		<0.05						
10/11/2017		<0.05			<0.05	6.8	<0.05	<0.05	<0.05
10/12/2017				<0.05					
6/13/2018	<0.05	<0.05					<0.05		<0.05
6/14/2018			<0.05	<0.05	<0.05	5.4		<0.05	
9/24/2018			<0.05						
9/27/2018	<0.05								
9/28/2018		<0.05							
10/2/2018							<0.05		
10/3/2018					<0.05				<0.05
10/4/2018				<0.05		5.5		<0.05	
4/1/2019	<0.05		<0.05						
4/2/2019		<0.05			<0.05		<0.05		<0.05
4/3/2019									
4/4/2019				0.024 (J)		3.2		0.049 (J)	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-5 (bg)	WGWC-17	WGWA-6 (bg)	WGWA-3 (bg)	WGWC-16	WGWA-7 (bg)
5/17/2016	0.927	12.2	23.7						
5/18/2016				1.7	8.24	27	2.1	168	1.36
5/19/2016									
7/19/2016	1	13	23	1.5		23		190	0.88
7/20/2016					11		1.7		
9/13/2016	0.44	13	23			25	1.3		0.93
9/14/2016				52	12			230	
9/15/2016									
11/9/2016	1.1	19	6.7			25			
11/10/2016					11		1.6	240	6.1
11/11/2016									
11/14/2016									
1/17/2017	1.4	28							
1/18/2017						26	1.7		10
1/19/2017			8.5	13					
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	1.6	8.8	20	1.8		1.3
3/15/2017								260	
3/17/2017									
4/11/2017									
4/24/2017	1.1	12							
4/25/2017			23	1.5	12	28	2	300	1.9
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				1.3	11			350	
8/10/2017									
10/10/2017	1.2	21							
10/11/2017			23	1.5	10	29	2.1	360	0.93
10/12/2017									
6/13/2018	1.1		11	1.2		25			
6/14/2018		12			6.2		2	260	0.94
9/24/2018		11							
9/27/2018	1.2								
9/28/2018			11						
10/2/2018						26			
10/3/2018				1.4			1.8		1.2
10/4/2018					6.4			250	
4/1/2019	1	12							
4/2/2019			20	1.1		25	1.8		1.1
4/3/2019									
4/4/2019					5.6			110	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-10	WGWA-4 (bg)	WGWC-12	WGWC-11	WGWC-8	WGWC-9	WGWC-13	WGWC-19
5/17/2016									
5/18/2016	32.5	7.17	17.9						
5/19/2016				15.8	1.95	31.4	8.53	11.4	
7/19/2016	30								
7/20/2016		7	15	14	1.5	28	8.2	7.1	
9/13/2016			16						
9/14/2016	37	7.7		16	1.8		8.8	7.4	
9/15/2016						27			
11/9/2016									
11/10/2016	29		15					6.4	
11/11/2016		8.2		15	1.7				12
11/14/2016						32			
1/17/2017									
1/18/2017			17						
1/19/2017									
1/20/2017									
1/24/2017	28								
1/27/2017				16	3.5			6.2	
2/6/2017		9.1				41			11
2/8/2017									
2/9/2017							10		
2/23/2017									
3/13/2017									
3/14/2017	29		17						
3/15/2017		9		16	3.8	38	8.6	6.7	10
3/17/2017									
4/11/2017							8.6		11
4/24/2017									
4/25/2017	32		17						
4/26/2017		8.1		3	4	39	7.1	6.5	8.4
5/17/2017									
6/7/2017									9
7/11/2017									9.5
8/8/2017									
8/9/2017	30		15					7	
8/10/2017		8.1		15	3.5	53	7.5		8.8
10/10/2017									
10/11/2017	31		17						
10/12/2017		8.6		16	2.7	60	8.2	7	9.5
6/13/2018									
6/14/2018	29	7.7	15	13	2.2	52	7.5	5.5	8.9
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	31		16						
10/4/2018		8.5		15	2	65	8	5.9	10
4/1/2019									
4/2/2019			15						11
4/3/2019				14	1.7	61	7.2	4.7	
4/4/2019	30	7.9							

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL
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	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-5 (bg)	WGWC-17	WGWA-6 (bg)	WGWA-3 (bg)	WGWC-16	WGWA-7 (bg)
5/17/2016	3.8	2.5	6.05						
5/18/2016				2.14	2.72	1.58	1.92	217	2.06
5/19/2016									
7/19/2016	3.9	2.6	4	2.4		1.6		250	2.1
7/20/2016					1.9		1.8		
9/13/2016	3.6	2.4	3.1			1.4	1.7		2
9/14/2016				2.1	1.6			260	
9/15/2016									
11/9/2016	3.9	2.3	2.3			1.5			
11/10/2016					1.6		1.6	290	1.8
11/11/2016									
11/14/2016									
1/17/2017	3.8	2.3							
1/18/2017						1.5	1.7		1.8
1/19/2017			2	1.8					
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	1.5	2.5	1.6		1.8
3/15/2017								330	
3/17/2017									
4/11/2017									
4/24/2017	3.4	2.2							
4/25/2017			1.9	1.8	1.8	1.3	1.6	330	1.8
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				1.9	1.4			330	
8/10/2017									
10/10/2017	3.6	2.5							
10/11/2017			1.9	2.1	1.5	1.3	1.6	320	1.8
10/12/2017									
6/13/2018	3.8		2	1.7		1.4			
6/14/2018		2.3			1.5		1.6	290	1.7
9/24/2018		2.4							
9/27/2018	4								
9/28/2018			2.1						
10/2/2018						1.4			
10/3/2018				1.8			1.6		1.8
10/4/2018					1.5			290	
4/1/2019	4	2.4							
4/2/2019			2.6	1.7		1.5	1.7		1.9
4/3/2019									
4/4/2019					1.4			170	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-10	WGWA-4 (bg)	WGWC-12	WGWC-11	WGWC-8	WGWC-9	WGWC-13	WGWC-19
5/17/2016									
5/18/2016	4.59	1.45	1.45						
5/19/2016				3.8	3.21	17.5	1.46	2.26	
7/19/2016	5.9								
7/20/2016		1.6	1.4	3.8	3.4	19	1.5	1.9	
9/13/2016			1.4						
9/14/2016	7.9	1.5		3.7	3.1		1.4	1.6	
9/15/2016						19			
11/9/2016									
11/10/2016	6.5		1.3					1.4	
11/11/2016		1.5		3.5	3.2				2.6
11/14/2016						25			
1/17/2017									
1/18/2017			1.3						
1/19/2017									
1/20/2017									
1/24/2017	4.1								
1/27/2017				3.1	3.4			1.4	
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		1.2						
3/15/2017		1.4		3.2	3.1	38	1.3	1.4	2.4
3/17/2017									
4/11/2017							1.2		2.3
4/24/2017									
4/25/2017	4		1.2						
4/26/2017		1.3		3.2	3.1	42	1.2	1.3	2.3
5/17/2017									
6/7/2017									2.5
7/11/2017									2.3
8/8/2017									
8/9/2017	3.6		1.2					1.4	
8/10/2017		1.4		3.4	3.1	48	1.3		2.5
10/10/2017									
10/11/2017	5		1.2						
10/12/2017		1.3		3.1	3	60	1.4	1.2	2.3
6/13/2018									
6/14/2018	4.3	1.3	1.2	3	3	58	1.2	1.2	2.4
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	4.8		1.2						
10/4/2018		1.3		3.1	3.1	300	1.2	1.2	2.6
4/1/2019									
4/2/2019			1.2						2.5
4/3/2019				3	3.3	70	2	1.2	
4/4/2019	3.7	1.4							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL
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	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWC-15	WGWA-7 (bg)	WGWC-16	WGWA-6 (bg)	WGWC-17
5/17/2016	0.0131 (J)	0.0538 (J)	0.284 (J)						
5/18/2016				0.206	0.779	0.018 (J)	0.1 (J)	0.106 (J)	0.121 (J)
5/19/2016									
7/19/2016	<0.2	<0.2	0.21		0.97	<0.2	0.14 (J)	0.11 (J)	
7/20/2016				0.23					0.16 (J)
9/13/2016	<0.2	<0.2	0.15 (J)			<0.2		0.11 (J)	
9/14/2016				0.17 (J)	0.89		0.18 (J)		0.19 (J)
9/15/2016									
11/9/2016	<0.2	0.085 (J)	<0.2					0.1 (J)	
11/10/2016					0.88	<0.2	0.11 (J)		0.15 (J)
11/11/2016				0.14 (J)					
11/14/2016									
1/17/2017	<0.2	<0.2							
1/18/2017						<0.2		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	<0.2	<0.2							
3/14/2017			<0.2		0.77	<0.2		<0.2	0.11 (J)
3/15/2017				0.16 (J)			0.1 (J)		
3/17/2017									
4/11/2017									
4/24/2017	<0.2	<0.2							
4/25/2017			<0.2		0.95	<0.2	0.13 (J)	<0.2	0.13 (J)
4/26/2017				0.17 (J)					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.2	<0.2	0.087 (J)			<0.2		0.099 (J)	
8/9/2017					0.91		0.18 (J)		0.19 (J)
8/10/2017				0.2					
10/10/2017	<0.2	0.18 (J)							
10/11/2017			0.09 (J)		0.88	<0.2	<0.2	0.098 (J)	0.14 (J)
10/12/2017				0.14 (J)					
3/27/2018	<0.2	<0.2							
3/28/2018			0.11 (J)			<0.2		0.088 (J)	
3/29/2018							0.13 (J)		
3/30/2018				0.13 (J)	0.79				0.095 (J)
6/13/2018	<0.2		0.085 (J)					0.093 (J)	
6/14/2018		<0.2		0.15 (J)	0.79	<0.2	<0.2		0.11 (J)
9/24/2018		<0.2							
9/27/2018	<0.2								
9/28/2018			0.082 (J)						
10/2/2018								0.13 (J)	
10/3/2018					0.79	<0.2			
10/4/2018				0.18 (J)			0.85 (J)		0.11 (J)
2/25/2019	<0.2	0.032 (J)							

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWC-15	WGWA-7 (bg)	WGWC-16	WGWA-6 (bg)	WGWC-17
2/26/2019			0.23			<0.2		0.074 (J)	0.068 (J)
2/27/2019				0.21	0.81		0.47		
2/28/2019									
4/1/2019	<0.2	0.061 (J)							
4/2/2019			0.21			<0.2		0.09 (J)	
4/3/2019									
4/4/2019				0.13 (J)	0.78		0.08 (J)		0.087 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL
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	<0.2
2/9/2017	
2/23/2017	<0.2
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	<0.2
4/11/2017	<0.2
4/24/2017	
4/25/2017	
4/26/2017	<0.2
5/17/2017	<0.2
6/7/2017	<0.2
7/11/2017	<0.2
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	<0.2
10/12/2017	
3/27/2018	
3/28/2018	
3/29/2018	<0.2
3/30/2018	
6/13/2018	
6/14/2018	<0.2
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	<0.2
2/25/2019	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

2/26/2019	
2/27/2019	<0.2
2/28/2019	
4/1/2019	
4/2/2019	
4/3/2019	0.048 (J)
4/4/2019	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-5 (bg)	WGWC-17	WGWA-6 (bg)	WGWA-3 (bg)	WGWC-16	WGWA-7 (bg)
5/17/2016	<1	1.14	19.9						
5/18/2016				0.955 (J)	32.1	8.88	0.821 (J)	388	0.368 (J)
5/19/2016									
7/19/2016	<1	1.4	14	0.76 (J)		9		460	<1
7/20/2016					9.7		0.82 (J)		
9/13/2016	<1	1.1	11			8.5	0.81 (J)		<1
9/14/2016				3.4	6.6			500	
9/15/2016									
11/9/2016	<1	1.1	6.3			8.2			
11/10/2016					5.2		0.73 (J)	530	<1
11/11/2016									
11/14/2016									
1/17/2017	<1	2.1							
1/18/2017						9.4	0.99 (J)		1.4
1/19/2017			7.4	21					
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	1.4	9.6	2	0.83 (J)		<1
3/15/2017								610	
3/17/2017									
4/11/2017									
4/24/2017	<1	0.75 (J)							
4/25/2017			10	0.89 (J)	20	8.2	0.7 (J)	620	<1
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				0.75 (J)	6.5			780	
8/10/2017									
10/10/2017	<1	1.3							
10/11/2017			11	<1	13	8.3	0.72 (J)	720	<1
10/12/2017									
6/13/2018	<1		8.2	<1		8.3			
6/14/2018		0.84 (J)			16		<1	620	<1
9/24/2018		0.79 (J)							
9/27/2018	<1								
9/28/2018			7.6						
10/2/2018						8.3			
10/3/2018				<1			0.73 (J)		<1
10/4/2018					15			560	
4/1/2019	<1	1							
4/2/2019			11	0.94 (J)		8.5	1.1		0.4 (J)
4/3/2019									
4/4/2019					9.1			250	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-10	WGWA-4 (bg)	WGWC-12	WGWC-11	WGWC-8	WGWC-9	WGWC-13	WGWC-19
5/17/2016									
5/18/2016	50.7	2.84	5.32						
5/19/2016				15.8	1.83	146	35.9	19.2	
7/19/2016	62								
7/20/2016		2.8	6.5	16	1.6	150	37	11	
9/13/2016			5.6						
9/14/2016	79	2.8		16	1.5		39	8.6	
9/15/2016						140			
11/9/2016									
11/10/2016	61		5.4					5.7	
11/11/2016		2.6		14	1.4				3.4
11/14/2016						160			
1/17/2017									
1/18/2017			5.1						
1/19/2017									
1/20/2017									
1/24/2017	34								
1/27/2017				15	2.5			6.8	
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		4.6						
3/15/2017		2.7		17	2.5	170	44	11	3.6
3/17/2017									
4/11/2017							36		3.2
4/24/2017									
4/25/2017	39		6.6						
4/26/2017		2.5		15	2.2	180	37	8.1	3.3
5/17/2017									
6/7/2017									3.8
7/11/2017									3.3
8/8/2017									
8/9/2017	35		7.3					8.1	
8/10/2017		2.2		16	2.3	180	38		3.7
10/10/2017									
10/11/2017	48		6.8						
10/12/2017		1.9		14	1.9	180	37	6.1	3.6
6/13/2018									
6/14/2018	44	2	6.9	14	1.7	170	37	5	3.5
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	49		7						
10/4/2018		1.9		14	1.6	780	38	4.3	4.6
4/1/2019									
4/2/2019			8.1						3.8
4/3/2019				13	1.9	180	41	3.8	
4/4/2019	41	2.2							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL
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	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-5 (bg)	WGWC-17	WGWA-6 (bg)	WGWA-3 (bg)	WGWC-16	WGWA-7 (bg)
5/17/2016	<10	100	112						
5/18/2016				33	107	113	29	1080	31
5/19/2016									
7/19/2016	14	84	80	<10		92		1200	<10
7/20/2016					78		<10		
9/13/2016	50	70	120			100	12		<10
9/14/2016				150	82			1300	
9/15/2016									
11/9/2016	22	110	76			130			
11/10/2016					98		30	1400	44
11/11/2016									
11/14/2016									
1/17/2017	8	120							
1/18/2017						120	22		50
1/19/2017			36	34					
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	32	120	110	22		26
3/15/2017								1500	
3/17/2017									
4/11/2017									
4/24/2017	10	94							
4/25/2017			70	22	120	100	22	1700	10
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				20	92			1900	
8/10/2017									
10/10/2017	44	140							
10/11/2017			90	4 (J)	74	98	10	1900	42
10/12/2017									
6/13/2018	24		38	<10		110			
6/14/2018		80			100		26	1500	14
9/24/2018		76							
9/27/2018	28								
9/28/2018			68						
10/2/2018						130			
10/3/2018				24			50		6
10/4/2018					98			1700	
4/1/2019	<10	63							
4/2/2019			100	25		110	28		15
4/3/2019									
4/4/2019					89			710	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-10	WGWA-4 (bg)	WGWC-12	WGWC-11	WGWC-8	WGWC-9	WGWC-13	WGWC-19
5/17/2016									
5/18/2016	190	70	101						
5/19/2016				101	39	311	134	127	
7/19/2016	180								
7/20/2016		42	86	76	<10	290	120	88	
9/13/2016			28						
9/14/2016	230	40		96	24		140	92	
9/15/2016						270			
11/9/2016									
11/10/2016	210		110					100	
11/11/2016		72		100	42				98
11/14/2016						320			
1/17/2017									
1/18/2017			98						
1/19/2017									
1/20/2017									
1/24/2017	140								
1/27/2017				50	18			80	
2/6/2017		24				330			36
2/8/2017									
2/9/2017							180		
2/23/2017									
3/13/2017									
3/14/2017	220		110						
3/15/2017		78		120	54	370	160	100	120
3/17/2017									
4/11/2017							120		68
4/24/2017									
4/25/2017	180		86						
4/26/2017		48		100	42	380	140	92	76
5/17/2017									
6/7/2017									74
7/11/2017									70
8/8/2017									
8/9/2017	180		92					120	
8/10/2017		38		96	30	380	130		66
10/10/2017									
10/11/2017	200		110						
10/12/2017		72		100	54	450	120	110	100
6/13/2018									
6/14/2018	170	40	92	94	16	410	120	88	74
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	260		100						
10/4/2018		60		110	56	520	140	100	100
4/1/2019									
4/2/2019			100						88
4/3/2019				66	<10	430	120	72	
4/4/2019	170	30							

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/6/2019 1:23 PM View: Interwell PL
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	

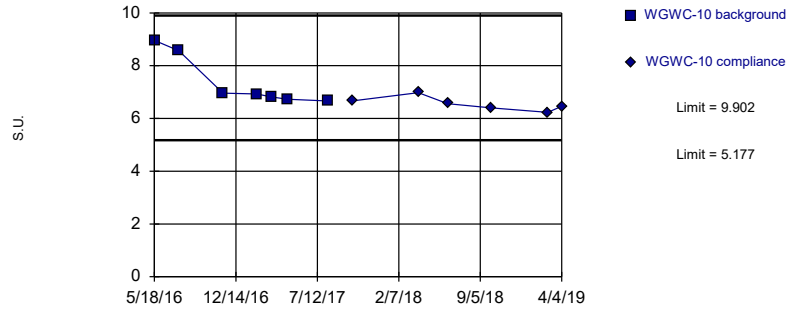
Intrawell Prediction Limit

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/6/2019, 1:36 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
pH (S.U.)	WGWC-10	9.902	5.177	4/4/2019	6.46	No	7	0	sqrt(x)	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-11	6.316	5.777	4/3/2019	6.07	No	7	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-12	7.233	6.248	4/3/2019	6.91	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-13	6.939	6.335	4/3/2019	6.47	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-14A	6.437	5.643	4/3/2019	5.68	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-15	8.055	7.269	4/4/2019	7.58	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-16	6.262	5.015	4/4/2019	5.19	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-17	6.846	6.112	4/4/2019	6.16	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-19	7.076	6.539	4/2/2019	6.75	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-8	6.578	5.09	4/3/2019	5.55	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-9	6.731	5.557	4/3/2019	6.1	No	6	0	No	0.000342	Param Intra 1 of 3

Within Limits

pH Intrawell Parametric

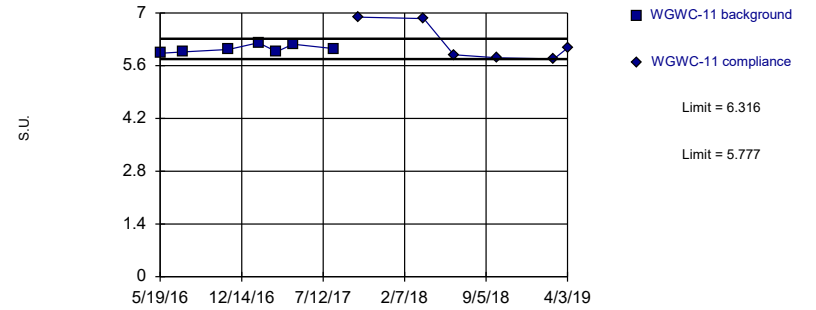


Background Data Summary (based on square root transformation): Mean=2.711, Std. Dev.=0.1724, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7339, critical = 0.73. Kappa = 2.527 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 6/6/2019 1:33 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH Intrawell Parametric

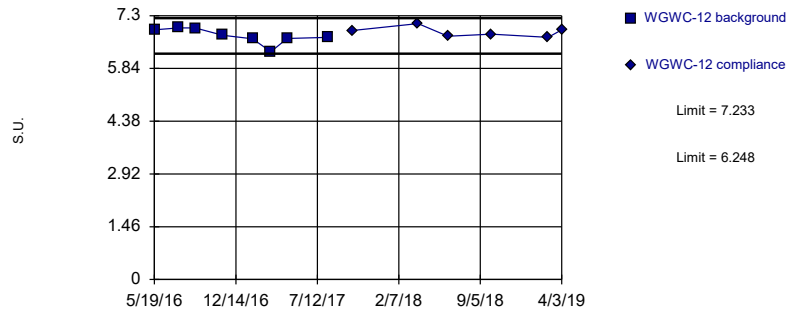


Background Data Summary: Mean=6.047, Std. Dev.=0.1066, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.899, critical = 0.73. Kappa = 2.527 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 6/6/2019 1:33 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH Intrawell Parametric

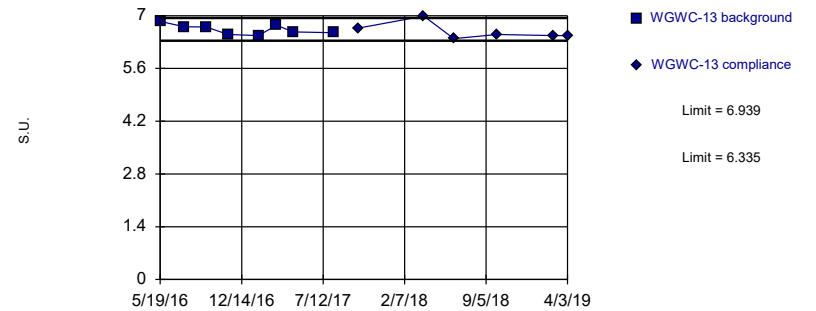


Background Data Summary: Mean=6.74, Std. Dev.=0.2184, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8774, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 6/6/2019 1:33 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH Intrawell Parametric

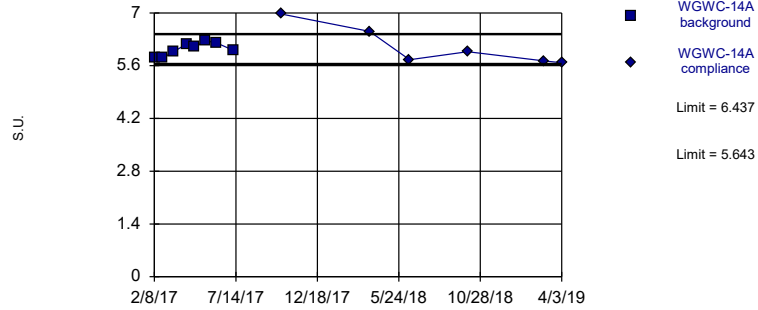


Background Data Summary: Mean=6.637, Std. Dev.=0.1339, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9399, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 6/6/2019 1:33 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

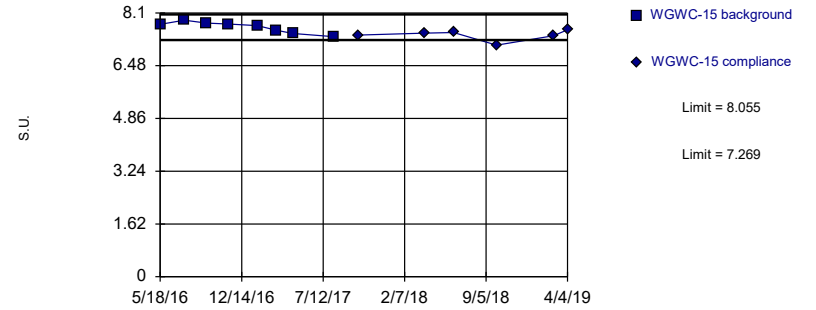


Background Data Summary: Mean=6.04, Std. Dev.=0.1758, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9217, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 6/6/2019 1:33 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

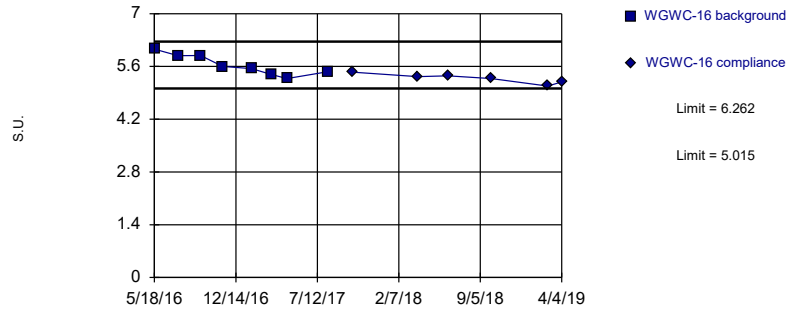


Background Data Summary: Mean=7.662, Std. Dev.=0.1742, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9232, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 6/6/2019 1:33 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

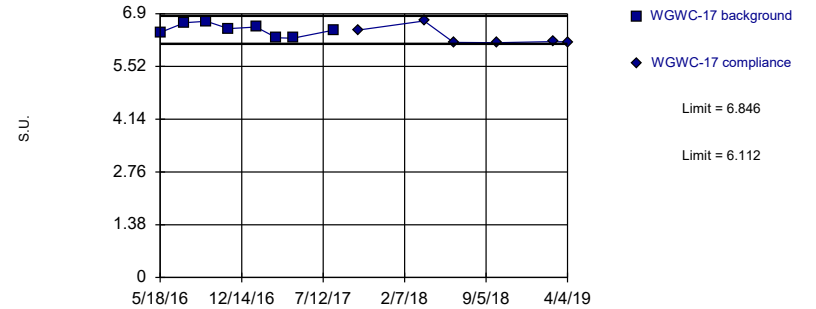


Background Data Summary: Mean=5.638, Std. Dev.=0.2764, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9364, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 6/6/2019 1:33 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

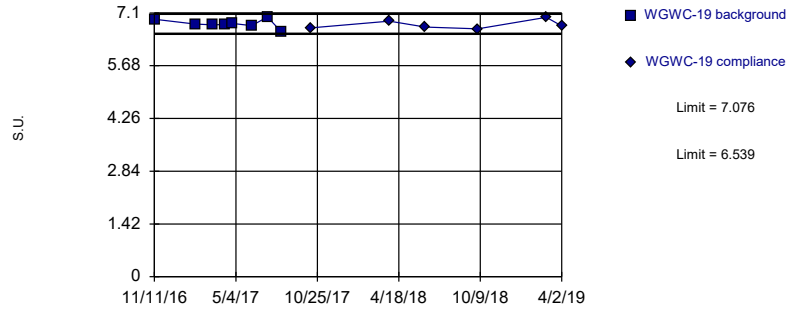


Background Data Summary: Mean=6.479, Std. Dev.=0.1626, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9405, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 6/6/2019 1:33 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

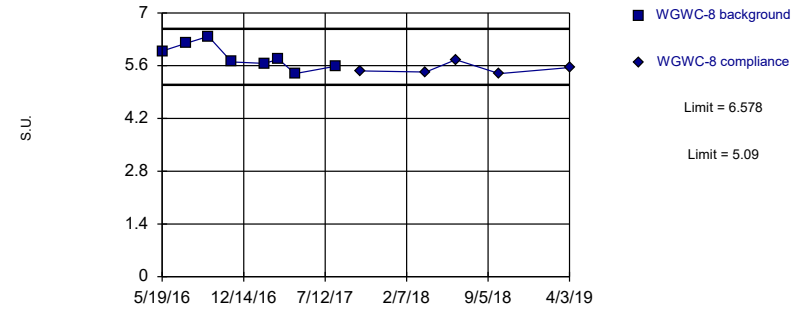


Background Data Summary: Mean=6.808, Std. Dev.=0.119, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9284, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 6/6/2019 1:33 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

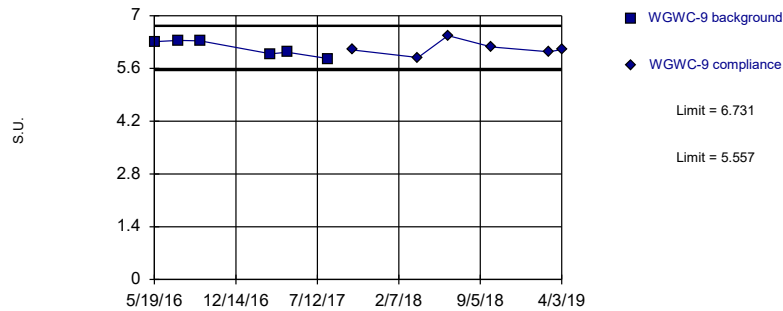


Background Data Summary: Mean=5.834, Std. Dev.=0.3298, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9531, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 6/6/2019 1:33 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric



Background Data Summary: Mean=6.144, Std. Dev.=0.2097, n=6. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8479, critical = 0.713. Kappa = 2.798 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 6/6/2019 1:33 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Prediction Limit

Constituent: pH Analysis Run 6/6/2019 1:36 PM View: IntraWell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-10	WGWC-11	WGWC-11	WGWC-12	WGWC-12	WGWC-13	WGWC-13
5/18/2016	8.96							
5/19/2016			5.93		6.91		6.85	
7/18/2016			5.9661					
7/20/2016	8.56774				6.962608		6.705264	
9/1/2016					6.96			
9/14/2016							6.7	
11/10/2016							6.5	
11/11/2016	6.96		6.03		6.76			
1/27/2017			6.21		6.66		6.47	
2/6/2017	6.93							
3/15/2017	6.82		5.97		6.3		6.75	
4/26/2017	6.73		6.17		6.67		6.57	
8/9/2017							6.55	
8/10/2017	6.66		6.05		6.7			
10/12/2017		6.67		6.89		6.89		6.67
3/29/2018				6.85		7.08		6.99
3/30/2018		6.98						
6/14/2018		6.56		5.89		6.73		6.39
10/4/2018		6.4		5.81		6.79		6.5
2/27/2019		6.23		5.78		6.7		6.47
4/3/2019				6.07		6.91		6.47
4/4/2019		6.46						

Prediction Limit

Constituent: pH Analysis Run 6/6/2019 1:36 PM View: IntraWell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-14A	WGWC-15	WGWC-15	WGWC-16	WGWC-16	WGWC-17	WGWC-17
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	
1/20/2017							6.55	
1/24/2017			7.71		5.54			
2/8/2017	5.81							
2/23/2017	5.8							
3/14/2017			7.57				6.27	
3/15/2017					5.39			
3/17/2017	5.97							
4/11/2017	6.18							
4/25/2017			7.47		5.28		6.26	
4/26/2017	6.09							
5/17/2017	6.26							
6/7/2017	6.21							
7/11/2017	6							
8/9/2017			7.37		5.46		6.47	
10/11/2017		6.97		7.42		5.45		6.47
3/29/2018		6.51				5.33		
3/30/2018				7.48				6.71
6/14/2018		5.76		7.5		5.35		6.15
10/3/2018				7.11				
10/4/2018		5.97				5.28		6.14
2/26/2019								6.17
2/27/2019		5.73		7.4		5.08		
4/3/2019		5.68						
4/4/2019				7.58		5.19		6.16

Prediction Limit

Constituent: pH Analysis Run 6/6/2019 1:36 PM View: IntraWell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-19	WGWC-19	WGWC-8	WGWC-8	WGWC-9	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			
11/11/2016	6.93					
11/14/2016			5.7			
2/6/2017	6.8		5.66			
3/15/2017	6.78		5.77		5.99	
4/11/2017	6.79					
4/26/2017	6.82		5.39		6.03	
6/7/2017	6.76					
7/11/2017	6.99					
8/10/2017	6.59		5.59		5.86	
10/12/2017		6.7		5.46		6.09
3/29/2018		6.88		5.43		5.89
6/14/2018		6.72		5.76		6.47
10/4/2018		6.67		5.39		6.17
2/28/2019		6.98				6.045 (D)
4/2/2019		6.75				
4/3/2019				5.55		6.1

Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/6/2019, 1:57 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	WGWC-10	0.0013	0.00089	0.01	No	13	84.62	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.0013	0.00054	0.01	No	13	84.62	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.0013	0.00052	0.01	No	13	84.62	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.0015	0.00053	0.01	No	13	53.85	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0021	0.00095	0.01	No	13	46.15	No	0.01	NP (Cohens/xfrm)
Arsenic (mg/L)	WGWC-15	0.002579	0.001721	0.01	No	13	0	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0015	0.0009	0.01	No	13	23.08	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-17	0.0013	0.00058	0.01	No	13	53.85	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-19	0.0013	0.0013	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-8	0.0015	0.00055	0.01	No	13	76.92	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	13	76.92	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.03675	2	No	13	0	x^4	0.01	Param.
Barium (mg/L)	WGWC-11	0.036	0.02969	2	No	13	0	No	0.01	Param.
Barium (mg/L)	WGWC-12	0.02124	0.01501	2	No	13	0	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05622	0.04503	2	No	13	0	x^2	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04909	0.03122	2	No	13	0	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02188	0.01882	2	No	13	0	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.06749	0.04923	2	No	13	0	x^3	0.01	Param.
Barium (mg/L)	WGWC-17	0.01968	0.014	2	No	13	0	No	0.01	Param.
Barium (mg/L)	WGWC-19	0.001602	0.001158	2	No	13	7.692	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-8	0.00233	0.001053	2	No	13	7.692	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-9	0.002545	0.0008699	2	No	13	30.77	No	0.01	Param.
Beryllium (mg/L)	WGWC-10	0.0025	0.0025	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-11	0.0025	0.0025	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-12	0.0025	0.0025	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-13	0.0025	0.0025	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00017	0.004	No	13	92.31	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-15	0.0025	0.0025	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	13	92.31	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-17	0.0025	0.0025	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-19	0.0025	0.0025	0.004	No	13	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.00184	0.001337	0.004	No	13	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00034	0.004	No	13	69.23	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.0025	0.0025	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-11	0.0025	0.0025	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-12	0.0025	0.0025	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-13	0.0025	0.0025	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-14A	0.0025	0.0025	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-15	0.0025	0.0025	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.00082	0.00037	0.005	No	13	15.38	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-17	0.0025	0.0025	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-19	0.0025	0.0025	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-8	0.0025	0.0025	0.005	No	13	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-9	0.0025	0.0025	0.005	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-10	0.002718	0.00152	0.1	No	13	15.38	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0025	0.0012	0.1	No	13	76.92	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-12	0.0025	0.0025	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.0025	0.0018	0.1	No	13	92.31	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.0025	0.0025	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.0025	0.0015	0.1	No	13	92.31	No	0.01	NP (NDs)

Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/6/2019, 1:57 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Chromium (mg/L)	WGWC-16	0.0025	0.0025	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-17	0.0025	0.0025	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-19	0.0025	0.0025	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-8	0.0025	0.0025	0.1	No	13	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.0025	0.1	No	13	92.31	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001883	0.0007394	0.013	No	13	7.692	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00052	0.013	No	13	38.46	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001627	0.0005765	0.013	No	13	7.692	No	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0004	0.013	No	13	69.23	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-14A	0.01285	0.00709	0.013	No	13	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.0025	0.013	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.01404	0.005804	0.013	No	13	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-17	0.002082	0.001037	0.013	No	13	7.692	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00045	0.013	No	13	69.23	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0037	0.0011	0.013	No	13	69.23	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	13	92.31	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.5186	0.1264	10.4	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.5974	0.03323	10.4	No	13	7.692	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.7053	0.1448	10.4	No	13	7.692	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.8599	0.4544	10.4	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.9734	0.527	10.4	No	13	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.7793	0.2612	10.4	No	13	7.692	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	2.415	1.135	10.4	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.65	0.0821	10.4	No	13	7.692	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.4698	0.1208	10.4	No	13	7.692	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.973	1.067	10.4	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.3939	0.1452	10.4	No	13	7.692	No	0.01	Param.
Fluoride (mg/L)	WGWC-10	0.1917	0.1463	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.2	0.048	4	No	14	78.57	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-12	0.2	0.089	4	No	14	28.57	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	WGWC-13	0.3207	0.2599	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.2	0.048	4	No	14	92.86	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.9007	0.8005	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-16	0.47	0.1	4	No	14	14.29	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-17	0.1588	0.1042	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.3932	0.3325	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.395	0.2205	4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.6	1.3	4	No	14	0	No	0.01	NP (normality)
Lead (mg/L)	WGWC-10	0.0013	0.00023	0.015	No	11	90.91	No	0.006	NP (NDs)
Lead (mg/L)	WGWC-11	0.0013	0.00058	0.015	No	11	90.91	No	0.006	NP (NDs)
Lead (mg/L)	WGWC-12	0.0013	0.0013	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	WGWC-13	0.0013	0.00047	0.015	No	11	63.64	No	0.006	NP (normality)
Lead (mg/L)	WGWC-14A	0.0013	0.0013	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	WGWC-15	0.0013	0.0013	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	WGWC-16	0.0013	0.00014	0.015	No	11	90.91	No	0.006	NP (NDs)
Lead (mg/L)	WGWC-17	0.0013	0.00033	0.015	No	11	90.91	No	0.006	NP (NDs)
Lead (mg/L)	WGWC-19	0.0013	0.0013	0.015	No	11	100	No	0.006	NP (NDs)
Lead (mg/L)	WGWC-8	0.0013	0.00017	0.015	No	11	90.91	No	0.006	NP (NDs)
Lead (mg/L)	WGWC-9	0.0013	0.00014	0.015	No	11	90.91	No	0.006	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01978	0.009083	0.009	Yes	13	0	No	0.01	Param.

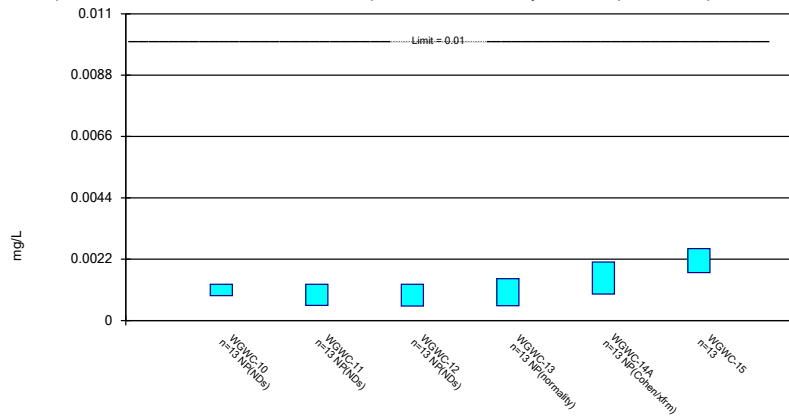
Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/6/2019, 1:57 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	WGWC-11	0.005	0.0014	0.009	No	13	76.92	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.00797	0.005458	0.009	No	13	7.692	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0022	0.009	No	13	69.23	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-14A	0.005	0.0016	0.009	No	13	53.85	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-15	0.006633	0.004772	0.009	No	13	15.38	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01226	0.008109	0.009	No	13	7.692	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.006014	0.004601	0.009	No	13	7.692	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-19	0.062	0.045	0.009	Yes	13	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.026	0.012	0.009	Yes	13	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.04006	0.03156	0.009	Yes	13	0	No	0.01	Param.
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.015	No	13	84.62	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0011	0.015	No	13	92.31	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0009	0.015	No	13	69.23	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0018	0.015	No	13	15.38	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.015	No	13	92.31	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.008176	0.004107	0.015	No	13	0	ln(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-16	0.015	0.015	0.015	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-17	0.007132	0.003085	0.015	No	13	0	No	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.015	No	13	53.85	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-8	0.015	0.015	0.015	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-9	0.008195	0.003709	0.015	No	13	0	x^(1/3)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.0013	0.00031	0.05	No	13	92.31	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.0013	0.00049	0.05	No	13	92.31	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.0021	0.0013	0.05	No	13	92.31	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-13	0.0013	0.0013	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.0013	0.0003	0.05	No	13	92.31	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.0013	0.0005	0.05	No	13	92.31	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01328	0.00837	0.05	No	13	0	No	0.01	Param.
Selenium (mg/L)	WGWC-17	0.0013	0.0013	0.05	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-19	0.0013	0.00036	0.05	No	13	92.31	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0038	0.0031	0.05	No	13	0	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002532	0.001957	0.05	No	13	0	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.0005	0.000085	0.002	No	13	92.31	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-12	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-13	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.0005	0.00012	0.002	No	13	46.15	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-15	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-16	0.0002542	0.0001291	0.002	No	13	7.692	x^(1/3)	0.01	Param.
Thallium (mg/L)	WGWC-17	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-19	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-8	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-9	0.0005	0.0005	0.002	No	13	100	No	0.01	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

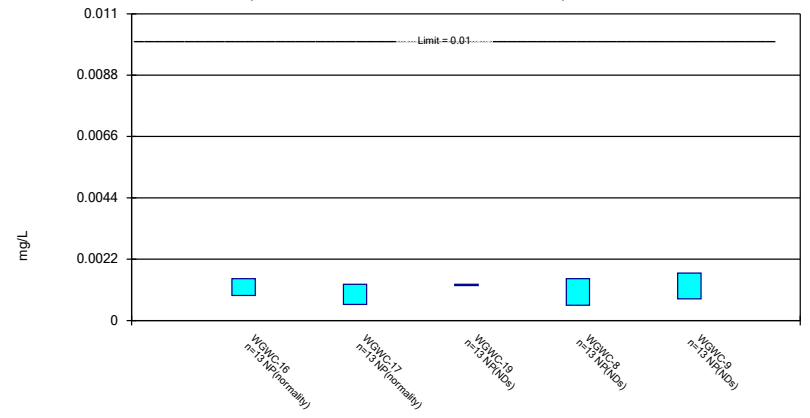
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

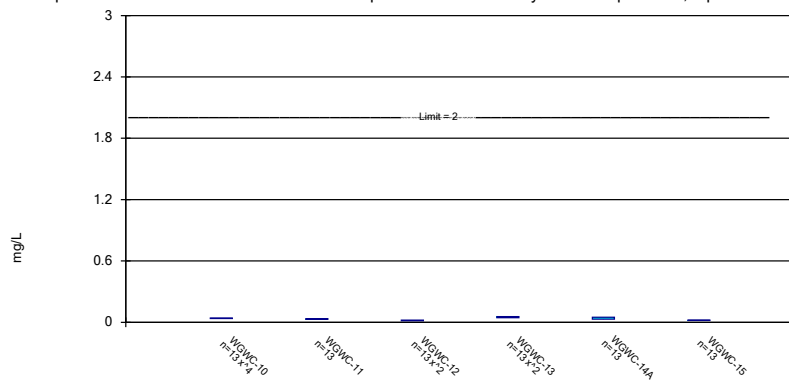
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Constituent: Arsenic Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

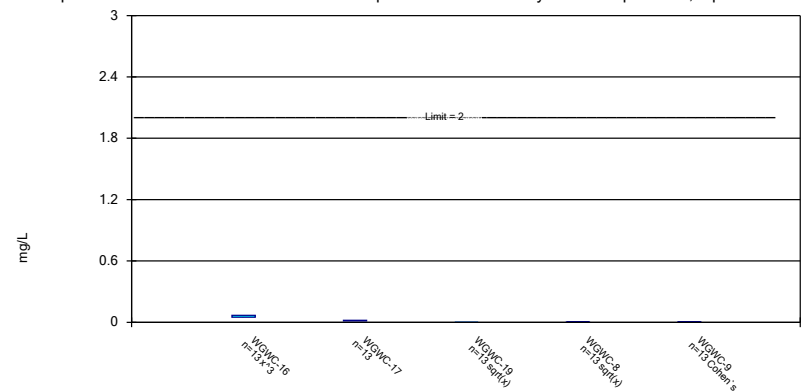
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Constituent: Barium Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

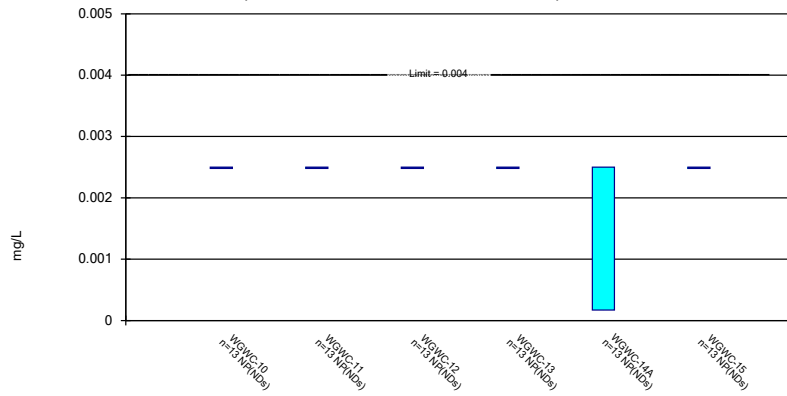
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Constituent: Barium Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

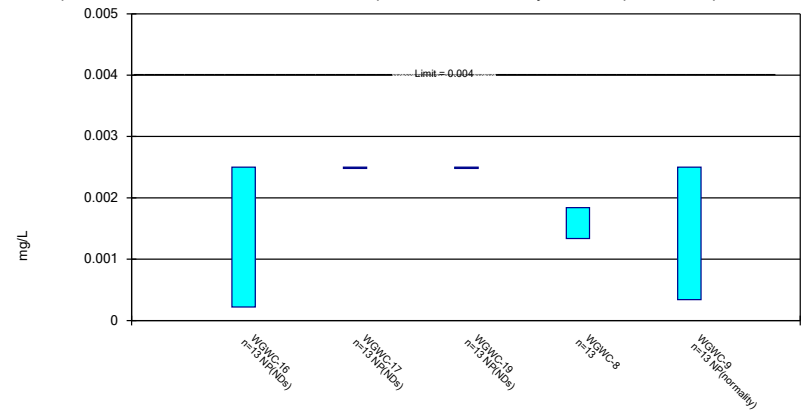
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Constituent: Beryllium Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

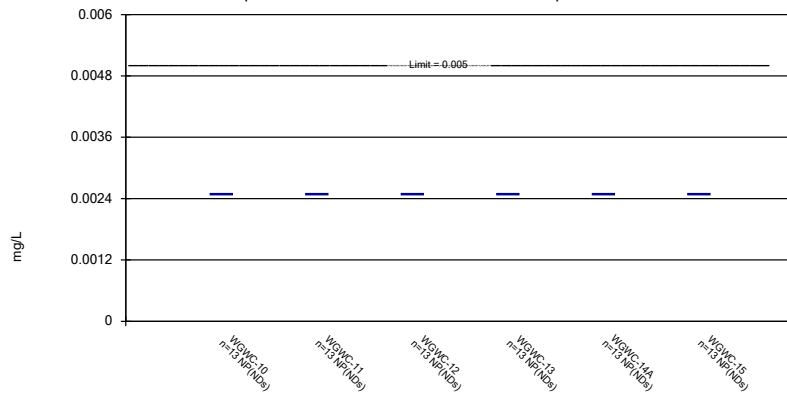
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Constituent: Beryllium Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

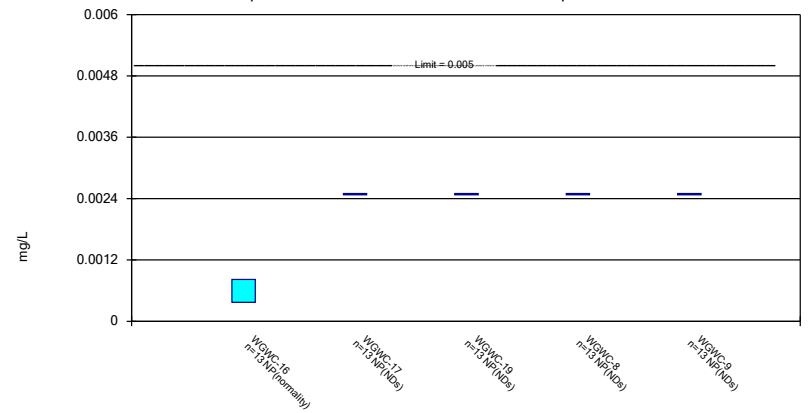
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

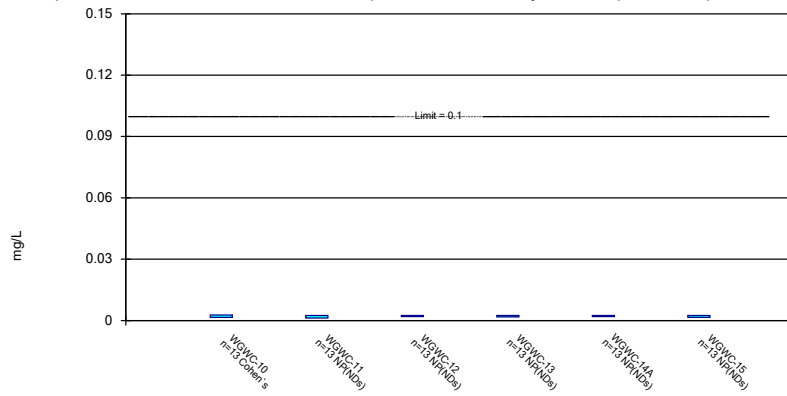
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

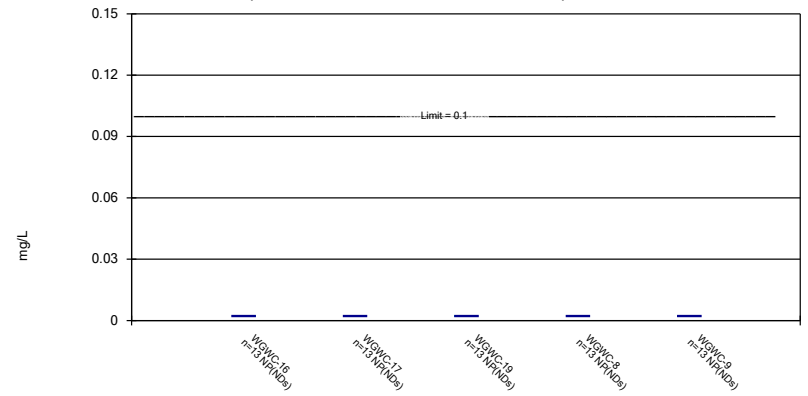
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Constituent: Chromium Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

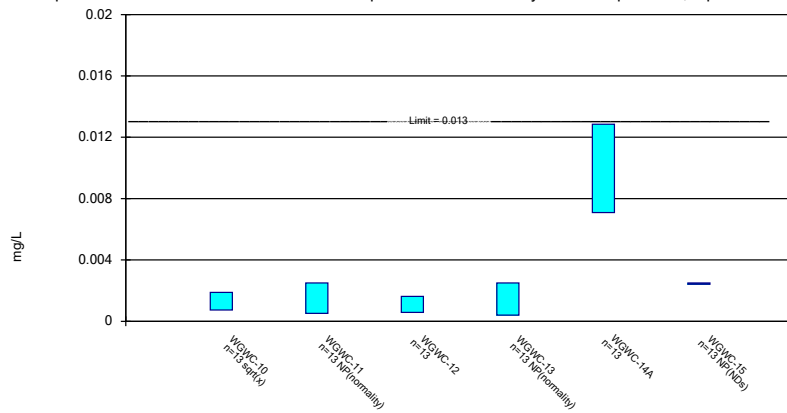
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Constituent: Chromium Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

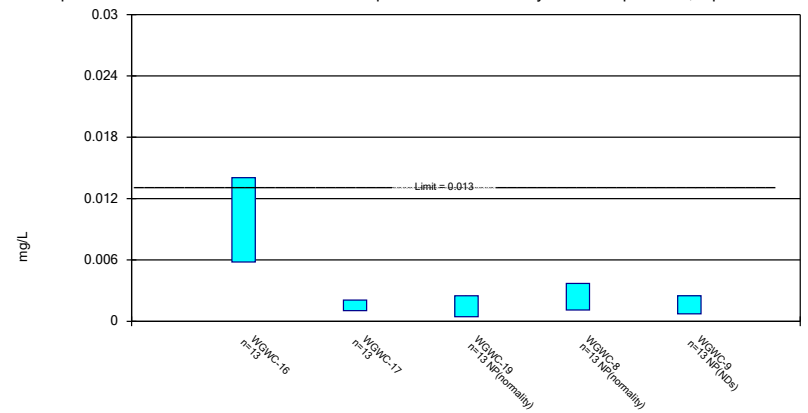
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Constituent: Cobalt Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

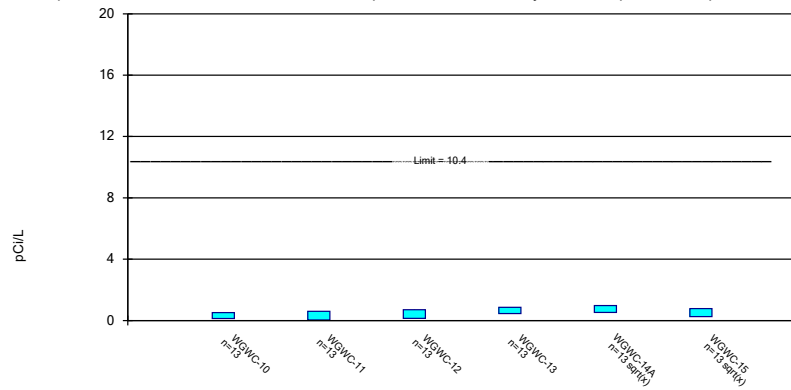
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

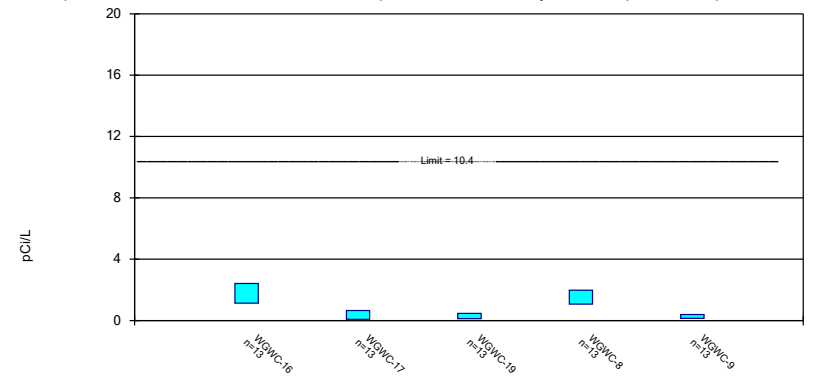
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

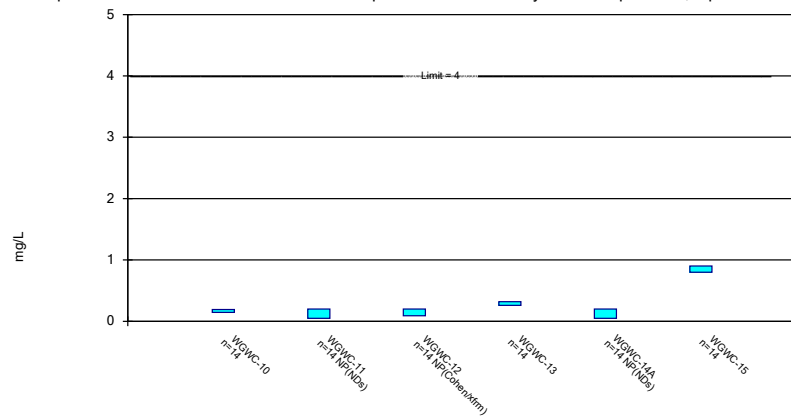
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Constituent: Combined Radium 226 + 228 Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

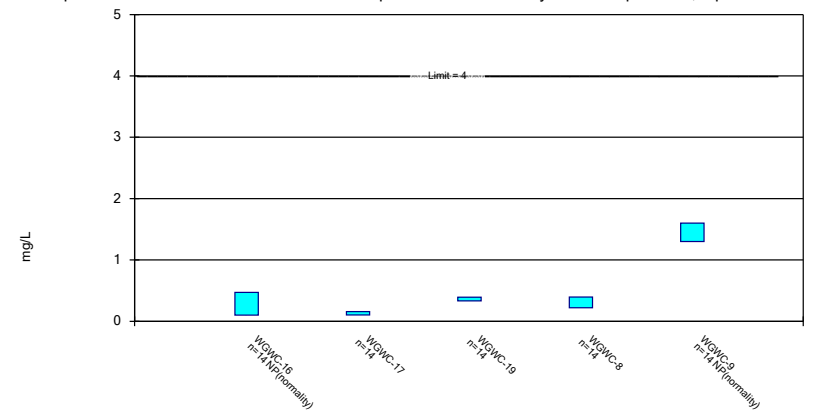
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

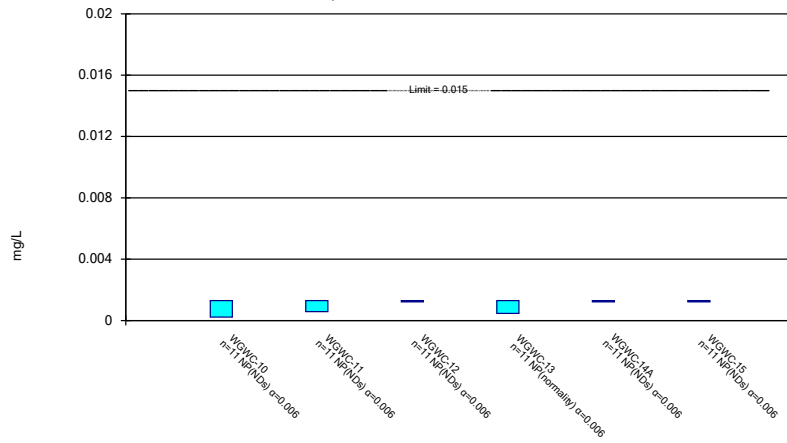
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



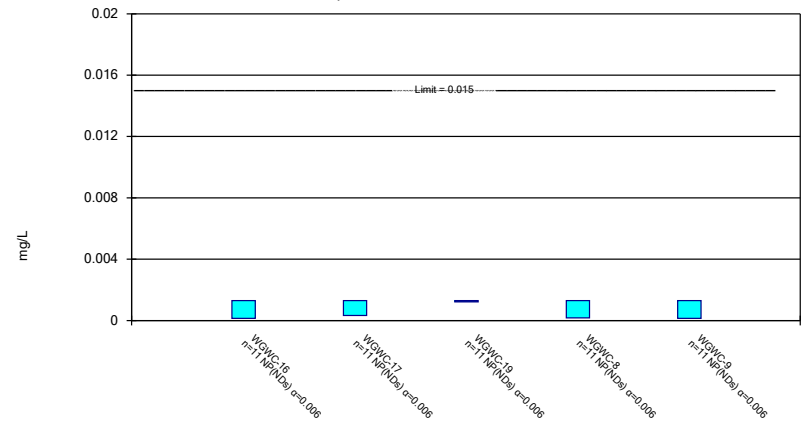
Constituent: Fluoride Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

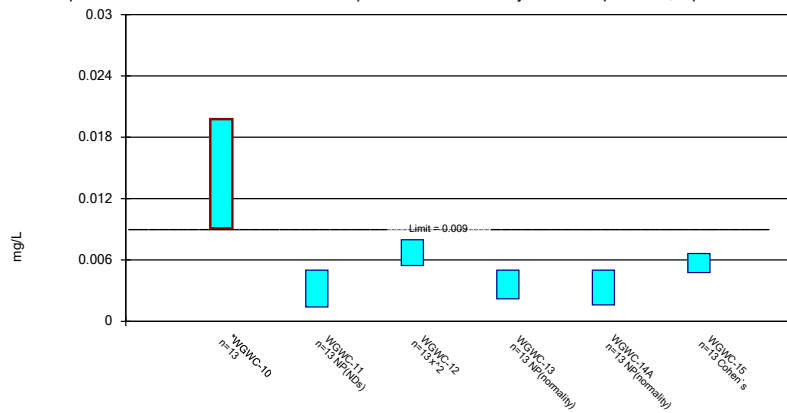
Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

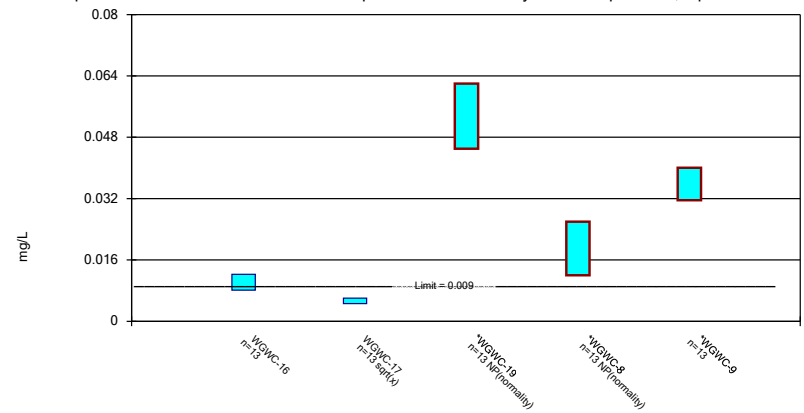
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

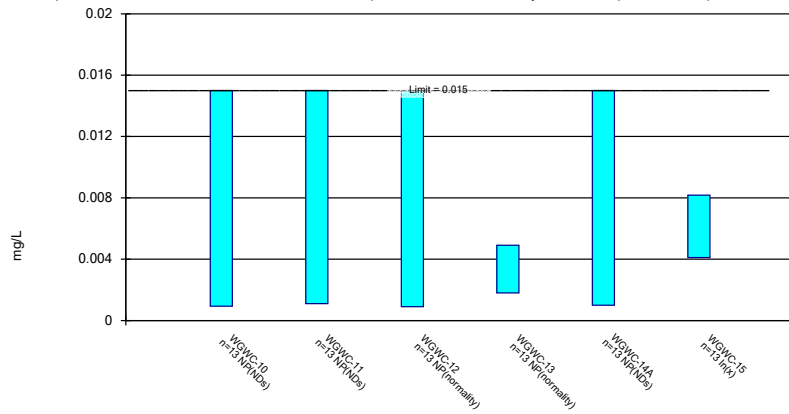
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/6/2019 1:54 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

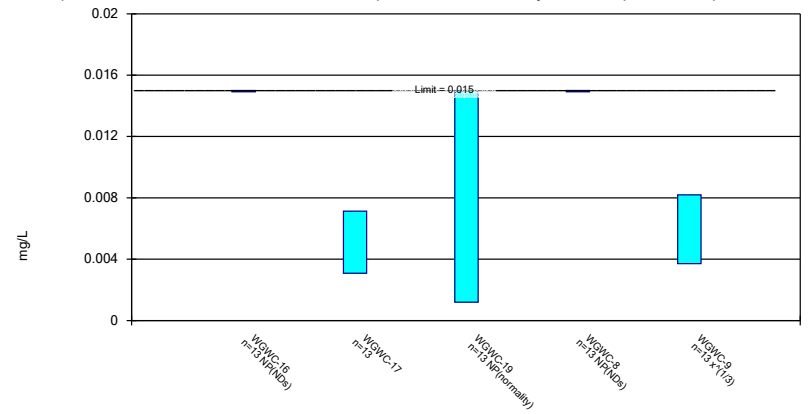
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Constituent: Molybdenum Analysis Run 6/6/2019 1:55 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

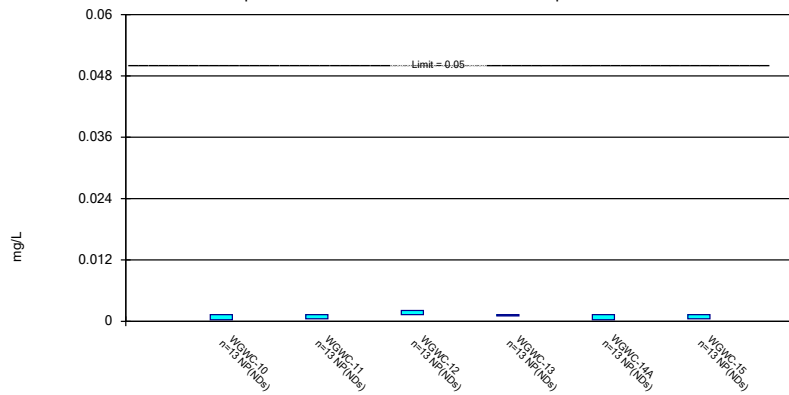
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/6/2019 1:55 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

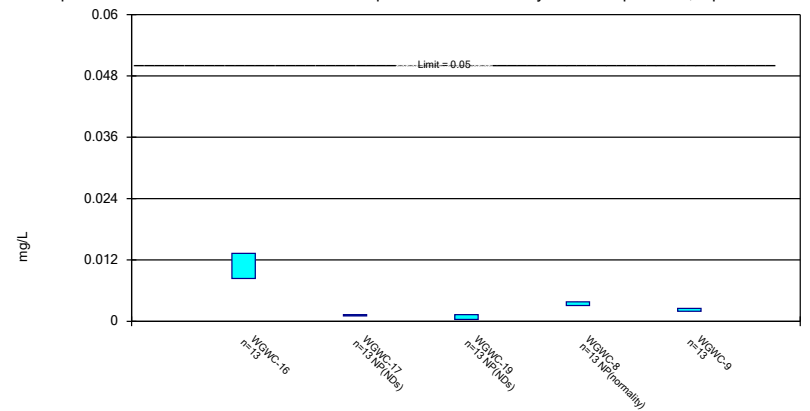
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 6/6/2019 1:55 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

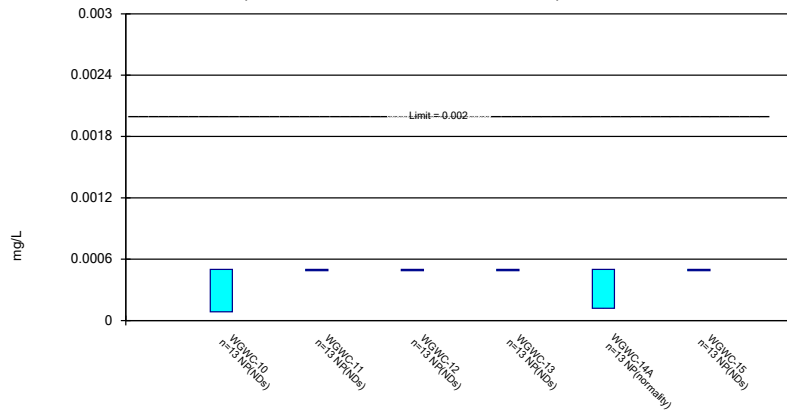
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 6/6/2019 1:55 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

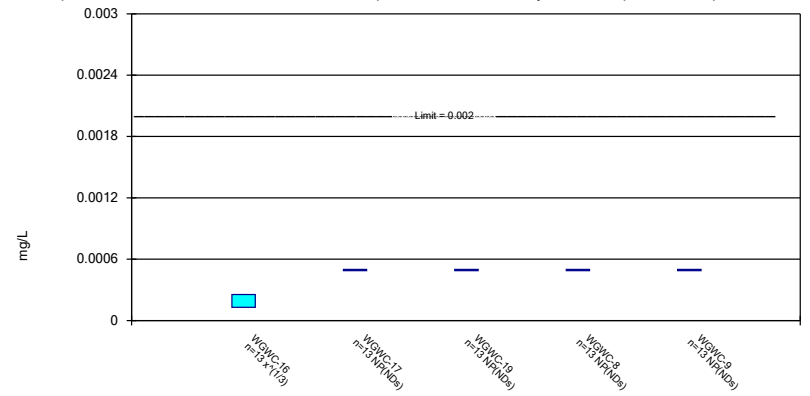
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 6/6/2019 1:55 PM View: Confidence Interval
 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: Thallium Analysis Run 6/6/2019 1:55 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0013					0.00345
5/19/2016		<0.0013	<0.0013	<0.0013		
7/19/2016						0.0031
7/20/2016	<0.0013	<0.0013	<0.0013	<0.0013		
9/14/2016	<0.0013	<0.0013	<0.0013	<0.0013		0.0024
11/10/2016				<0.0013		0.0023
11/11/2016	<0.0013	<0.0013	<0.0013			
1/24/2017						0.0019
1/27/2017		0.00047 (J)	<0.0013	0.00066 (J)		
2/6/2017	<0.0013					
2/8/2017					<0.0013	
2/23/2017					<0.0013	
3/14/2017						0.0016
3/15/2017	<0.0013	<0.0013	<0.0013	<0.0013		
3/17/2017					0.0006 (J)	
4/11/2017					0.0032	
4/25/2017						0.0019
4/26/2017	<0.0013	<0.0013	<0.0013	<0.0013	0.0019	
5/17/2017					0.0014	
6/7/2017					0.0021	
7/11/2017					0.00095 (J)	
8/9/2017				<0.0013		0.0017
8/10/2017	<0.0013	<0.0013	0.00048 (J)			
3/29/2018		<0.0013	<0.0013	0.00067 (J)	<0.0013	
3/30/2018	<0.0013					0.0018
6/14/2018	0.0005 (J)	<0.0013	0.00052 (J)	0.00093 (J)	<0.0013	0.002
10/3/2018						0.0024
10/4/2018	0.00089 (J)	0.00054 (J)	<0.0013	0.0015	0.0017	
2/27/2019	<0.0013	<0.0013	<0.0013	0.00036 (J)	<0.0013	0.0015
4/3/2019		<0.0013	<0.0013	0.00053 (J)	<0.0013	
4/4/2019	<0.0013					0.0019
Mean	0.001207	0.001178	0.001177	0.001058	0.001512	0.00215
Std. Dev.	0.0002407	0.0002989	0.0003005	0.000376	0.0006332	0.0005774
Upper Lim.	0.0013	0.0013	0.0013	0.0015	0.0021	0.002579
Lower Lim.	0.00089	0.00054	0.00052	0.00053	0.00095	0.001721

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.0013	<0.0013			
5/19/2016				<0.0013	<0.0013
7/19/2016	0.0009 (J)				
7/20/2016		0.00058 (J)		0.00055 (J)	0.00078 (J)
9/14/2016	0.0014	<0.0013			<0.0013
9/15/2016				<0.0013	
11/10/2016	0.0021	0.00082 (J)			
11/11/2016			<0.0013		
11/14/2016				<0.0013	
1/20/2017		<0.0013			
1/24/2017	0.0015				
2/6/2017			<0.0013	<0.0013	
2/9/2017					0.0017
3/14/2017		<0.0013			
3/15/2017	0.0014		<0.0013	<0.0013	0.00047 (J)
4/11/2017			<0.0013		<0.0013
4/25/2017	0.0014	0.00095 (J)			
4/26/2017			<0.0013	<0.0013	<0.0013
6/7/2017			<0.0013		
7/11/2017			<0.0013		
8/9/2017	0.0013	<0.0013			
8/10/2017			<0.0013	<0.0013	<0.0013
3/29/2018	0.0014		<0.0013	<0.0013	<0.0013
3/30/2018		<0.0013			
6/14/2018	<0.0013	0.00076 (J)	<0.0013	<0.0013	<0.0013
10/4/2018	0.0013	0.00088 (J)	<0.0013	0.0015	<0.0013
2/26/2019		0.0005 (J)			
2/27/2019	0.00046 (J)			0.00047 (J)	
2/28/2019			<0.0013		<0.0013
4/2/2019			<0.0013		
4/3/2019				<0.0013	<0.0013
4/4/2019	<0.0013	<0.0013			
Mean	0.001312	0.001045	0.0013	0.001194	0.001227
Std. Dev.	0.0003633	0.0003078	0	0.0003089	0.0002958
Upper Lim.	0.0015	0.0013	0.0013	0.0015	0.0017
Lower Lim.	0.0009	0.00058	0.0013	0.00055	0.00078

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

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
Mean	0.03862	0.03285	0.01772	0.05038	0.04015	0.02035
Std. Dev.	0.003687	0.00424	0.005112	0.007784	0.01201	0.002056
Upper Lim.	0.041	0.036	0.02124	0.05622	0.04909	0.02188
Lower Lim.	0.03675	0.02969	0.01501	0.04503	0.03122	0.01882

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

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	<0.0025
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)	<0.0025
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)	<0.0025
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			<0.0025	
2/28/2019			<0.0025		0.0023 (J)
4/2/2019			0.0013 (J)		
4/3/2019				0.001 (J)	<0.0025
4/4/2019	0.027	0.011			
Mean	0.05627	0.01684	0.001386	0.001733	0.001118
Std. Dev.	0.01563	0.003815	0.0003169	0.0009426	0.0004805
Upper Lim.	0.06749	0.01968	0.001602	0.00233	0.002545
Lower Lim.	0.04923	0.014	0.001158	0.001053	0.0008699

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025					<0.0025
5/19/2016		<0.0025	<0.0025	<0.0025		
7/19/2016						<0.0025
7/20/2016	<0.0025	<0.0025	<0.0025	<0.0025		
9/14/2016	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
11/10/2016				<0.0025		<0.0025
11/11/2016	<0.0025	<0.0025	<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
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
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	
8/9/2017				<0.0025		<0.0025
8/10/2017	<0.0025	<0.0025	<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
10/3/2018						<0.0025
10/4/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/27/2019	<0.0025	<0.0025	<0.0025	<0.0025	0.00017 (J)	<0.0025
4/3/2019		<0.0025	<0.0025	<0.0025	<0.0025	
4/4/2019	<0.0025					<0.0025
Mean	0.0025	0.0025	0.0025	0.0025	0.002321	0.0025
Std. Dev.	0	0	0	0	0.0006462	0
Upper Lim.	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.0025	0.0025	0.0025	0.0025	0.00017	0.0025

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.0025	<0.0025			
5/19/2016				0.00102 (J)	<0.0025
7/19/2016	<0.0025				
7/20/2016		<0.0025		0.0014 (J)	<0.0025
9/14/2016	<0.0025	<0.0025			<0.0025
9/15/2016				0.00093 (J)	
11/10/2016	<0.0025	<0.0025			
11/11/2016			<0.0025		
11/14/2016				0.0014 (J)	
1/20/2017		<0.0025			
1/24/2017	<0.0025				
2/6/2017			<0.0025	0.0017 (J)	
2/9/2017					0.00041 (J)
3/14/2017		<0.0025			
3/15/2017	<0.0025		<0.0025	0.0016 (J)	<0.0025
4/11/2017			<0.0025		<0.0025
4/25/2017	<0.0025	<0.0025			
4/26/2017			<0.0025	0.0017 (J)	<0.0025
6/7/2017			<0.0025		
7/11/2017			<0.0025		
8/9/2017	<0.0025	<0.0025			
8/10/2017			<0.0025	0.0017 (J)	0.00034 (J)
3/29/2018	<0.0025		<0.0025	0.0018 (J)	<0.0025
3/30/2018		<0.0025			
6/14/2018	<0.0025	<0.0025	<0.0025	0.0015 (J)	<0.0025
10/4/2018	<0.0025	<0.0025	<0.0025	0.0019 (J)	0.00036 (J)
2/26/2019		<0.0025			
2/27/2019	0.00022 (J)			0.0021 (J)	
2/28/2019			<0.0025		0.00031 (J)
4/2/2019			<0.0025		
4/3/2019				0.0019 (J)	<0.0025
4/4/2019	<0.0025	<0.0025			
Mean	0.002325	0.0025	0.0025	0.001588	0.00184
Std. Dev.	0.0006324	0	0	0.0003383	0.001031
Upper Lim.	0.0025	0.0025	0.0025	0.00184	0.0025
Lower Lim.	0.00022	0.0025	0.0025	0.001337	0.00034

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.000362 (J)	<0.0025			
5/19/2016				<0.0025	<0.0025
7/19/2016	<0.0025				
7/20/2016		<0.0025		<0.0025	<0.0025
9/14/2016	0.00037 (J)	<0.0025			<0.0025
9/15/2016				<0.0025	
11/10/2016	<0.0025	<0.0025			
11/11/2016			<0.0025		
11/14/2016				<0.0025	
1/20/2017		<0.0025			
1/24/2017	0.00055 (J)				
2/6/2017			<0.0025	<0.0025	
2/9/2017					<0.0025
3/14/2017		<0.0025			
3/15/2017	0.00067 (J)		<0.0025	<0.0025	<0.0025
4/11/2017			<0.0025		<0.0025
4/25/2017	0.00058 (J)	<0.0025			
4/26/2017			<0.0025	<0.0025	<0.0025
6/7/2017			<0.0025		
7/11/2017			<0.0025		
8/9/2017	0.00054 (J)	<0.0025			
8/10/2017			<0.0025	<0.0025	<0.0025
3/29/2018	0.00082 (J)		<0.0025	<0.0025	<0.0025
3/30/2018		<0.0025			
6/14/2018	0.0007 (J)	<0.0025	<0.0025	<0.0025	<0.0025
10/4/2018	0.00065 (J)	<0.0025	<0.0025	<0.0025	<0.0025
2/26/2019		<0.0025			
2/27/2019	0.00055 (J)			<0.0025	
2/28/2019			<0.0025		<0.0025
4/2/2019			<0.0025		
4/3/2019				<0.0025	<0.0025
4/4/2019	0.00047 (J)	<0.0025			
Mean	0.0008663	0.0025	0.0025	0.0025	0.0025
Std. Dev.	0.0007359	0	0	0	0
Upper Lim.	0.00082	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.00037	0.0025	0.0025	0.0025	0.0025

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025					<0.0025
5/19/2016		<0.0025	<0.0025	<0.0025		
7/19/2016						<0.0025
7/20/2016	0.0012 (J)	<0.0025	<0.0025	<0.0025		
9/14/2016	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
11/10/2016				<0.0025		<0.0025
11/11/2016	0.0015 (J)	<0.0025	<0.0025			
1/24/2017						<0.0025
1/27/2017		<0.0025	<0.0025	<0.0025		
2/6/2017	0.0011 (J)					
2/8/2017					<0.0025	
2/23/2017					<0.0025	
3/14/2017						<0.0025
3/15/2017	0.0015 (J)	<0.0025	<0.0025	<0.0025		
3/17/2017					<0.0025	
4/11/2017					<0.0025	
4/25/2017						<0.0025
4/26/2017	0.0013 (J)	0.0011 (J)	<0.0025	<0.0025	<0.0025	
5/17/2017					<0.0025	
6/7/2017					<0.0025	
7/11/2017					<0.0025	
8/9/2017				<0.0025		<0.0025
8/10/2017	0.0016 (J)	<0.0025	<0.0025			
3/29/2018		0.0012 (J)	<0.0025	<0.0025	<0.0025	
3/30/2018	0.0027					<0.0025
6/14/2018	0.0023 (J)	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/3/2018						<0.0025
10/4/2018	0.0031	<0.0025	<0.0025	<0.0025	<0.0025	
2/27/2019	0.0031	0.0021 (J)	<0.0025	0.0018 (J)	<0.0025	0.0015 (J)
4/3/2019		<0.0025	<0.0025	<0.0025	<0.0025	
4/4/2019	0.0021 (J)					<0.0025
Mean	0.002038	0.002262	0.0025	0.002446	0.0025	0.002423
Std. Dev.	0.0007124	0.0005059	0	0.0001941	0	0.0002774
Upper Lim.	0.002718	0.0025	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.00152	0.0012	0.0025	0.0018	0.0025	0.0015

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.0025	<0.0025			
5/19/2016				<0.0025	<0.0025
7/19/2016	<0.0025				
7/20/2016		<0.0025		<0.0025	<0.0025
9/14/2016	<0.0025	<0.0025			<0.0025
9/15/2016				<0.0025	
11/10/2016	<0.0025	<0.0025			
11/11/2016			<0.0025		
11/14/2016				<0.0025	
1/20/2017		<0.0025			
1/24/2017	<0.0025				
2/6/2017			<0.0025	<0.0025	
2/9/2017					<0.0025
3/14/2017		<0.0025			
3/15/2017	<0.0025		<0.0025	<0.0025	<0.0025
4/11/2017			<0.0025		<0.0025
4/25/2017	<0.0025	<0.0025			
4/26/2017			<0.0025	<0.0025	<0.0025
6/7/2017			<0.0025		
7/11/2017			<0.0025		
8/9/2017	<0.0025	<0.0025			
8/10/2017			<0.0025	<0.0025	<0.0025
3/29/2018	<0.0025		<0.0025	<0.0025	<0.0025
3/30/2018		<0.0025			
6/14/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/4/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/26/2019		<0.0025			
2/27/2019	<0.0025			<0.0025	
2/28/2019			<0.0025		0.0025
4/2/2019			<0.0025		
4/3/2019				<0.0025	<0.0025
4/4/2019	<0.0025	<0.0025			
Mean	0.0025	0.0025	0.0025	0.0025	0.0025
Std. Dev.	0	0	0	0	1.5E-11
Upper Lim.	0.0025	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.0025	0.0025	0.0025	0.0025	0.0025

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

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
Mean	0.001355	0.001674	0.001102	0.001875	0.009969	0.0025
Std. Dev.	0.0008746	0.0008992	0.000706	0.0009863	0.003872	0
Upper Lim.	0.001883	0.0025	0.001627	0.0025	0.01285	0.0025
Lower Lim.	0.0007394	0.00052	0.0005765	0.0004	0.00709	0.0025

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

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			
Mean	0.009924	0.001559	0.001862	0.002297	0.002364
Std. Dev.	0.00554	0.0007028	0.0009991	0.0007422	0.0004909
Upper Lim.	0.01404	0.002082	0.0025	0.0037	0.0025
Lower Lim.	0.005804	0.001037	0.00045	0.0011	0.00073

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

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	<0.395	<0.395	0.463	0.55	<0.395
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
Mean	0.3225	0.3153	0.4251	0.6572	0.7615	0.5434
Std. Dev.	0.2637	0.3794	0.3769	0.2726	0.3405	0.4089
Upper Lim.	0.5186	0.5974	0.7053	0.8599	0.9734	0.7793
Lower Lim.	0.1264	0.03323	0.1448	0.4544	0.527	0.2612

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

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	<0.395	<0.395	1.86	<0.395
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			
Mean	1.775	0.3661	0.2953	1.52	0.2696
Std. Dev.	0.8607	0.3819	0.2347	0.609	0.1672
Upper Lim.	2.415	0.65	0.4698	1.973	0.3939
Lower Lim.	1.135	0.0821	0.1208	1.067	0.1452

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

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	<0.2	0.11 (J)	0.34		
9/14/2016	0.17 (J)	<0.2	0.095 (J)	0.31		0.89
11/10/2016				0.26		0.88
11/11/2016	0.14 (J)	<0.2	<0.2			
1/24/2017						0.92
1/27/2017		<0.2	<0.2	0.28		
2/6/2017	0.15 (J)					
2/8/2017					<0.2	
2/23/2017					<0.2	
3/14/2017						0.77
3/15/2017	0.16 (J)	<0.2	<0.2	0.3		
3/17/2017					<0.2	
4/11/2017					<0.2	
4/25/2017						0.95
4/26/2017	0.17 (J)	<0.2	<0.2	0.33	<0.2	
5/17/2017					<0.2	
6/7/2017					<0.2	
7/11/2017					<0.2	
8/9/2017				0.32		0.91
8/10/2017	0.2	<0.2	0.11 (J)			
10/11/2017					<0.2	0.88
10/12/2017	0.14 (J)	<0.2	0.091 (J)	0.28		
3/29/2018		<0.2	0.089 (J)	0.27	<0.2	
3/30/2018	0.13 (J)					0.79
6/14/2018	0.15 (J)	<0.2	0.1 (J)	0.27	<0.2	0.79
10/3/2018						0.79
10/4/2018	0.18 (J)	<0.2	0.12 (J)	0.23	<0.2	
2/27/2019	0.21	0.047 (J)	0.06 (J)	0.25	<0.2	0.81
4/3/2019		0.048 (J)	0.084 (J)	0.24	0.048 (J)	
4/4/2019	0.13 (J)					0.78
Mean	0.169	0.1667	0.1271	0.2903	0.1891	0.8506
Std. Dev.	0.03208	0.06617	0.05025	0.04291	0.04062	0.07073
Upper Lim.	0.1917	0.2	0.2	0.3207	0.2	0.9007
Lower Lim.	0.1463	0.048	0.089	0.2599	0.048	0.8005

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

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	<0.2	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	<0.2	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)			
Mean	0.2157	0.1315	0.3629	0.3077	1.491
Std. Dev.	0.2059	0.0385	0.04286	0.1232	0.201
Upper Lim.	0.47	0.1588	0.3932	0.395	1.6
Lower Lim.	0.1	0.1042	0.3325	0.2205	1.3

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0013					<0.0013
5/19/2016		<0.0013	<0.0013	<0.0013		
7/19/2016						<0.0013
7/20/2016	<0.0013	<0.0013	<0.0013	<0.0013		
9/14/2016	<0.0013	<0.0013	<0.0013	0.00055 (J)		<0.0013
11/10/2016				0.00047 (J)		<0.0013
11/11/2016	<0.0013	<0.0013	<0.0013			
1/24/2017						<0.0013
1/27/2017		<0.0013	<0.0013	<0.0013		
2/6/2017	<0.0013					
2/8/2017					<0.0013	
2/23/2017					<0.0013	
3/14/2017						<0.0013
3/15/2017	<0.0013	<0.0013	<0.0013	<0.0013		
3/17/2017					<0.0013	
4/11/2017					<0.0013	
4/25/2017						<0.0013
4/26/2017	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	
5/17/2017					<0.0013	
6/7/2017					<0.0013	
7/11/2017					<0.0013	
8/9/2017				<0.0013		<0.0013
8/10/2017	<0.0013	<0.0013	<0.0013			
3/29/2018		<0.0013	<0.0013	<0.0013	<0.0013	
3/30/2018	<0.0013					<0.0013
2/27/2019	0.00023 (J)	0.00058 (J)	<0.0013	0.00068 (J)	<0.0013	<0.0013
4/3/2019		<0.0013	<0.0013	0.00047 (J)	<0.0013	
4/4/2019	<0.0013					<0.0013
Mean	0.001203	0.001235	0.0013	0.001025	0.0013	0.0013
Std. Dev.	0.0003226	0.0002171	0	0.000386	0	0
Upper Lim.	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
Lower Lim.	0.00023	0.00058	0.0013	0.00047	0.0013	0.0013

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.0013	<0.0013			
5/19/2016				<0.0013	<0.0013
7/19/2016	<0.0013				
7/20/2016		<0.0013		<0.0013	<0.0013
9/14/2016	<0.0013	<0.0013			<0.0013
9/15/2016				<0.0013	
11/10/2016	<0.0013	<0.0013			
11/11/2016			<0.0013		
11/14/2016				<0.0013	
1/20/2017		<0.0013			
1/24/2017	<0.0013				
2/6/2017			<0.0013	<0.0013	
2/9/2017					<0.0013
3/14/2017		<0.0013			
3/15/2017	<0.0013		<0.0013	<0.0013	<0.0013
4/11/2017			<0.0013		<0.0013
4/25/2017	<0.0013	<0.0013			
4/26/2017			<0.0013	<0.0013	<0.0013
6/7/2017			<0.0013		
7/11/2017			<0.0013		
8/9/2017	<0.0013	<0.0013			
8/10/2017			<0.0013	<0.0013	<0.0013
3/29/2018	<0.0013		<0.0013	<0.0013	<0.0013
3/30/2018		<0.0013			
2/26/2019		0.00033 (J)			
2/27/2019	0.00014 (J)			0.00017 (J)	
2/28/2019			<0.0013		0.00014 (J)
4/2/2019			<0.0013		
4/3/2019				<0.0013	<0.0013
4/4/2019	<0.0013	<0.0013			
Mean	0.001195	0.001212	0.0013	0.001197	0.001195
Std. Dev.	0.0003498	0.0002925	0	0.0003407	0.0003498
Upper Lim.	0.0013	0.0013	0.0013	0.0013	0.0013
Lower Lim.	0.00014	0.00033	0.0013	0.00017	0.00014

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

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
Mean	0.01443	0.004177	0.006546	0.004254	0.003815	0.005823
Std. Dev.	0.007192	0.001571	0.002029	0.001243	0.001476	0.001105
Upper Lim.	0.01978	0.005	0.00797	0.005	0.005	0.006633
Lower Lim.	0.009083	0.0014	0.005458	0.0022	0.0016	0.004772

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

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)			
Mean	0.01018	0.005323	0.05123	0.01882	0.03581
Std. Dev.	0.002792	0.0009645	0.008064	0.01226	0.005714
Upper Lim.	0.01226	0.006014	0.062	0.026	0.04006
Lower Lim.	0.008109	0.004601	0.045	0.012	0.03156

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

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)
Mean	0.01283	0.01393	0.01093	0.004424	0.01392	0.006477
Std. Dev.	0.005288	0.003855	0.006425	0.004766	0.003883	0.003597
Upper Lim.	0.015	0.015	0.015	0.00491	0.015	0.008176
Lower Lim.	0.00093	0.0011	0.0009	0.0018	0.001	0.004107

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.015	0.00526 (J)			
5/19/2016				<0.015	0.00762 (J)
7/19/2016	<0.015				
7/20/2016		0.0066 (J)		<0.015	0.0084 (J)
9/14/2016	<0.015	0.0081 (J)			0.0071 (J)
9/15/2016				<0.015	
11/10/2016	<0.015	0.0076 (J)			
11/11/2016			<0.015		
11/14/2016				<0.015	
1/20/2017		0.0094 (J)			
1/24/2017	<0.015				
2/6/2017			0.001 (J)	<0.015	
2/9/2017					0.018
3/14/2017		0.0044 (J)			
3/15/2017	<0.015		<0.015	<0.015	0.0057 (J)
4/11/2017			<0.015		0.0047 (J)
4/25/2017	<0.015	0.0074 (J)			
4/26/2017			<0.015	<0.015	0.004 (J)
6/7/2017			0.0015 (J)		
7/11/2017			<0.015		
8/9/2017	<0.015	0.0066 (J)			
8/10/2017			0.0016 (J)	<0.015	0.0046 (J)
3/29/2018	<0.015		0.0012 (J)	<0.015	0.0048 (J)
3/30/2018		0.0024 (J)			
6/14/2018	<0.015	0.0026 (J)	0.0014 (J)	<0.015	0.0046 (J)
10/4/2018	<0.015	0.00085 (J)	<0.015	<0.015	0.003 (J)
2/26/2019		0.0032 (J)			
2/27/2019	<0.015			<0.015	
2/28/2019			0.0013 (J)		0.0053
4/2/2019			<0.015		
4/3/2019				<0.015	0.0026 (J)
4/4/2019	<0.015	0.002 (J)			
Mean	0.015	0.005108	0.008692	0.015	0.006186
Std. Dev.	0	0.002721	0.007093	0	0.00393
Upper Lim.	0.015	0.007132	0.015	0.015	0.008195
Lower Lim.	0.015	0.003085	0.0012	0.015	0.003709

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0013					<0.0013
5/19/2016		<0.0013	<0.0013	<0.0013		
7/19/2016						<0.0013
7/20/2016	<0.0013	<0.0013	<0.0013	<0.0013		
9/14/2016	<0.0013	<0.0013	<0.0013	<0.0013		<0.0013
11/10/2016				<0.0013		<0.0013
11/11/2016	<0.0013	<0.0013	<0.0013			
1/24/2017						<0.0013
1/27/2017		<0.0013	<0.0013	<0.0013		
2/6/2017	<0.0013					
2/8/2017					<0.0013	
2/23/2017					<0.0013	
3/14/2017						<0.0013
3/15/2017	<0.0013	<0.0013	<0.0013	<0.0013		
3/17/2017					<0.0013	
4/11/2017					<0.0013	
4/25/2017						<0.0013
4/26/2017	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	
5/17/2017					<0.0013	
6/7/2017					<0.0013	
7/11/2017					<0.0013	
8/9/2017				<0.0013		<0.0013
8/10/2017	0.00031 (J)	0.00049 (J)	0.0021			
3/29/2018		<0.0013	<0.0013	<0.0013	0.0003 (J)	
3/30/2018	<0.0013					<0.0013
6/14/2018	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	0.0005 (J)
10/3/2018						<0.0013
10/4/2018	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	
2/27/2019	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
4/3/2019		<0.0013	<0.0013	<0.0013	<0.0013	
4/4/2019	<0.0013					<0.0013
Mean	0.001224	0.001238	0.001362	0.0013	0.001223	0.001238
Std. Dev.	0.0002746	0.0002247	0.0002219	0	0.0002774	0.0002219
Upper Lim.	0.0013	0.0013	0.0021	0.0013	0.0013	0.0013
Lower Lim.	0.00031	0.00049	0.0013	0.0013	0.0003	0.0005

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.00735	<0.0013			
5/19/2016				0.00518	0.00228
7/19/2016	0.0075				
7/20/2016		<0.0013		0.0038	0.0016
9/14/2016	0.0091	<0.0013			0.0024
9/15/2016				0.0034	
11/10/2016	0.0056	<0.0013			
11/11/2016			<0.0013		
11/14/2016				0.0033	
1/20/2017		<0.0013			
1/24/2017	0.012				
2/6/2017			<0.0013	0.0033	
2/9/2017					0.0023
3/14/2017		<0.0013			
3/15/2017	0.012		<0.0013	0.003	0.0031
4/11/2017			<0.0013		0.0023
4/25/2017	0.013	<0.0013			
4/26/2017			<0.0013	0.0032	0.0019
6/7/2017			<0.0013		
7/11/2017			<0.0013		
8/9/2017	0.016	<0.0013			
8/10/2017			0.00036 (J)	0.0031	0.0021
3/29/2018	0.016		<0.0013	0.0034	0.0021
3/30/2018		<0.0013			
6/14/2018	0.012	<0.0013	<0.0013	0.0031	0.0025
10/4/2018	0.013	<0.0013	<0.0013	0.0033	0.002
2/26/2019		<0.0013			
2/27/2019	0.0081			0.0035	
2/28/2019			<0.0013		0.0027
4/2/2019			<0.0013		
4/3/2019				0.0031	0.0019
4/4/2019	0.0091	<0.0013			
Mean	0.01083	0.0013	0.001228	0.003437	0.002245
Std. Dev.	0.003304	0	0.0002607	0.0005643	0.0003863
Upper Lim.	0.01328	0.0013	0.0013	0.0038	0.002532
Lower Lim.	0.00837	0.0013	0.00036	0.0031	0.001957

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0005					<0.0005
5/19/2016		<0.0005	<0.0005	<0.0005		
7/19/2016						<0.0005
7/20/2016	<0.0005	<0.0005	<0.0005	<0.0005		
9/14/2016	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
11/10/2016				<0.0005		<0.0005
11/11/2016	<0.0005	<0.0005	<0.0005			
1/24/2017						<0.0005
1/27/2017		<0.0005	<0.0005	<0.0005		
2/6/2017	<0.0005					
2/8/2017					0.00011 (J)	
2/23/2017					0.00012 (J)	
3/14/2017						<0.0005
3/15/2017	<0.0005	<0.0005	<0.0005	<0.0005		
3/17/2017					<0.0005	
4/11/2017					<0.0005	
4/25/2017						<0.0005
4/26/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
5/17/2017					<0.0005	
6/7/2017					<0.0005	
7/11/2017					<0.0005	
8/9/2017				<0.0005		<0.0005
8/10/2017	<0.0005	<0.0005	<0.0005			
3/29/2018		<0.0005	<0.0005	<0.0005	0.0002 (J)	
3/30/2018	8.5E-05 (J)					<0.0005
6/14/2018	<0.0005	<0.0005	<0.0005	<0.0005	0.00014 (J)	<0.0005
10/3/2018						<0.0005
10/4/2018	<0.0005	<0.0005	<0.0005	<0.0005	0.00013 (J)	
2/27/2019	<0.0005	<0.0005	<0.0005	<0.0005	0.00016 (J)	<0.0005
4/3/2019		<0.0005	<0.0005	<0.0005	0.00012 (J)	
4/4/2019	<0.0005					<0.0005
Mean	0.0004681	0.0005	0.0005	0.0005	0.0003062	0.0005
Std. Dev.	0.0001151	0	0	0	0.0001881	0
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Lower Lim.	8.5E-05	0.0005	0.0005	0.0005	0.00012	0.0005

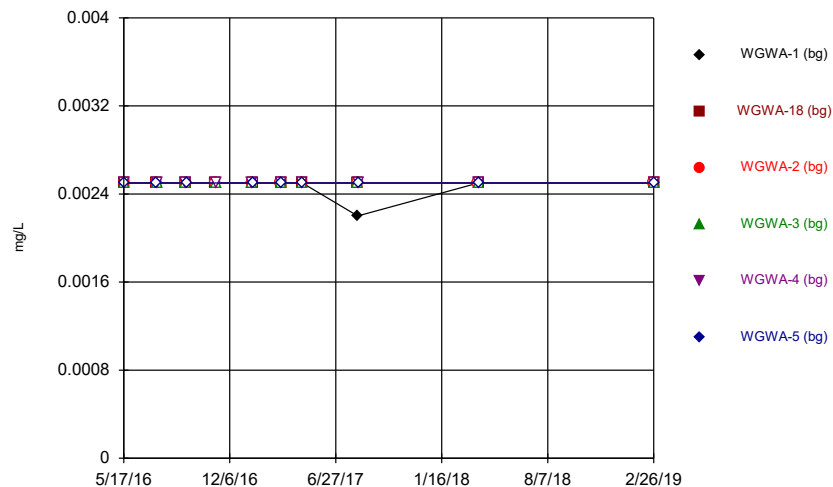
Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

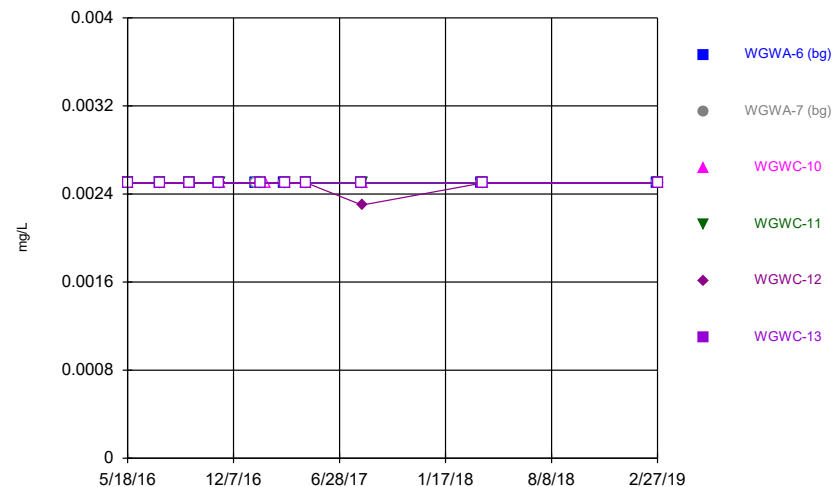
	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.0005	<0.0005			
5/19/2016				<0.0005	<0.0005
7/19/2016	8.5E-05 (J)				
7/20/2016		<0.0005		<0.0005	<0.0005
9/14/2016	0.00017 (J)	<0.0005			<0.0005
9/15/2016				<0.0005	
11/10/2016	0.00017 (J)	<0.0005			
11/11/2016			<0.0005		
11/14/2016				<0.0005	
1/20/2017		<0.0005			
1/24/2017	0.00023 (J)				
2/6/2017			<0.0005	<0.0005	
2/9/2017					<0.0005
3/14/2017		<0.0005			
3/15/2017	0.00021 (J)		<0.0005	<0.0005	<0.0005
4/11/2017			<0.0005		<0.0005
4/25/2017	0.00024 (J)	<0.0005			
4/26/2017			<0.0005	<0.0005	<0.0005
6/7/2017			<0.0005		
7/11/2017			<0.0005		
8/9/2017	0.0002 (J)	<0.0005			
8/10/2017			<0.0005	<0.0005	<0.0005
3/29/2018	0.00019 (J)		<0.0005	<0.0005	<0.0005
3/30/2018		<0.0005			
6/14/2018	0.00017 (J)	<0.0005	<0.0005	<0.0005	<0.0005
10/4/2018	0.00015 (J)	<0.0005	<0.0005	<0.0005	<0.0005
2/26/2019		<0.0005			
2/27/2019	0.00015 (J)			<0.0005	
2/28/2019			<0.0005		<0.0005
4/2/2019			<0.0005		
4/3/2019				<0.0005	<0.0005
4/4/2019	9.5E-05 (J)	<0.0005			
Mean	0.0001969	0.0005	0.0005	0.0005	0.0005
Std. Dev.	0.0001019	0	0	0	0
Upper Lim.	0.0002542	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.0001291	0.0005	0.0005	0.0005	0.0005

Antimony



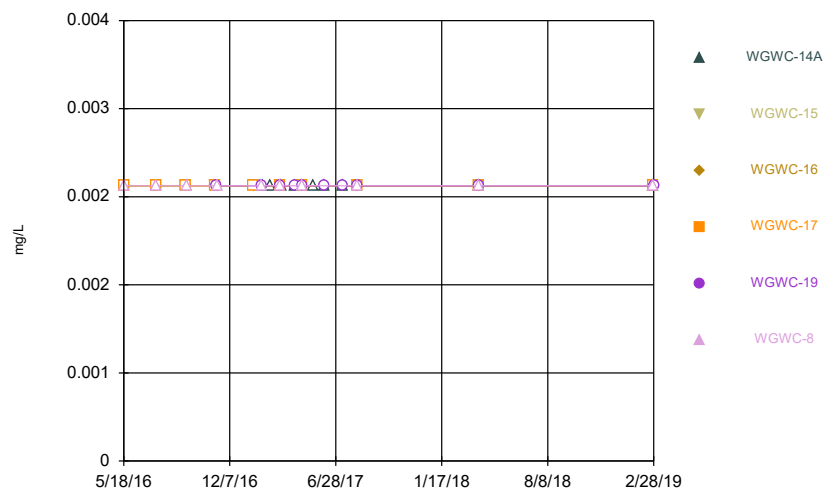
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Antimony



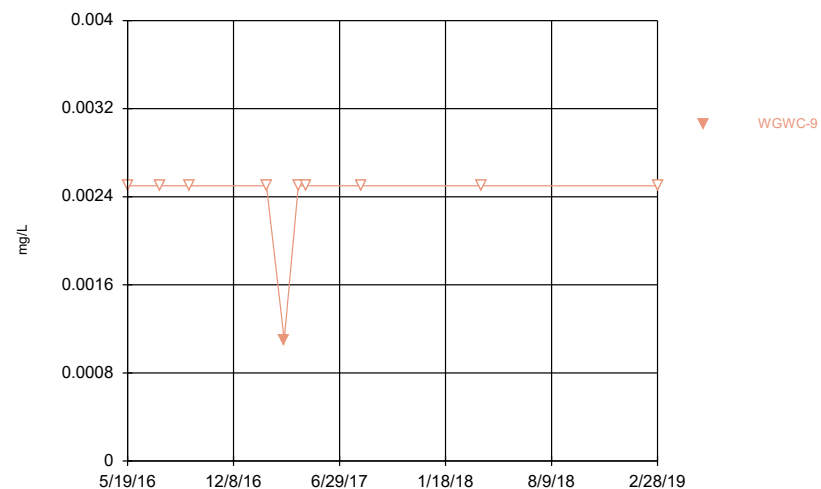
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Antimony



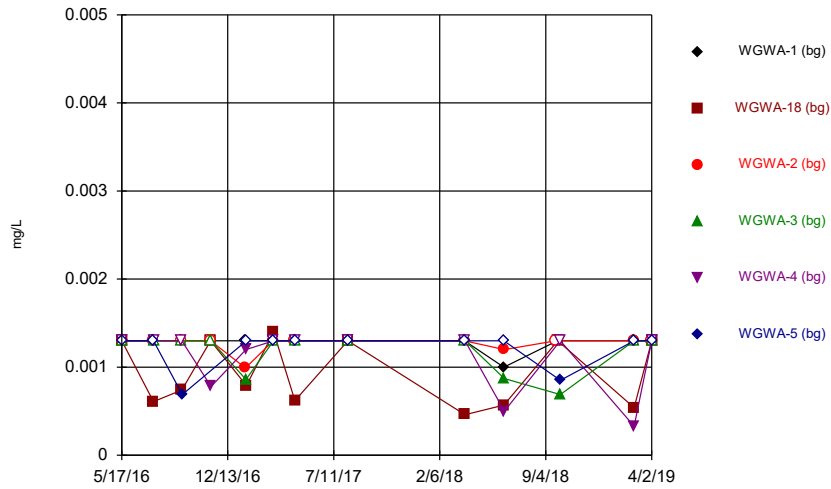
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Antimony



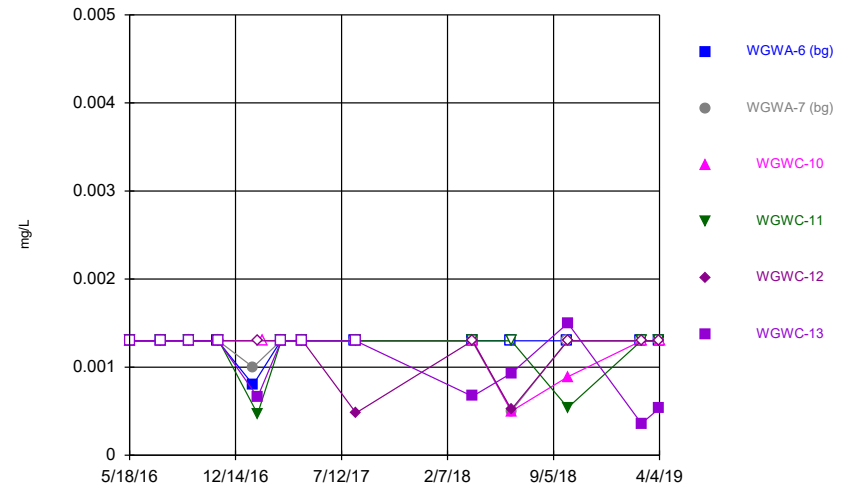
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Arsenic



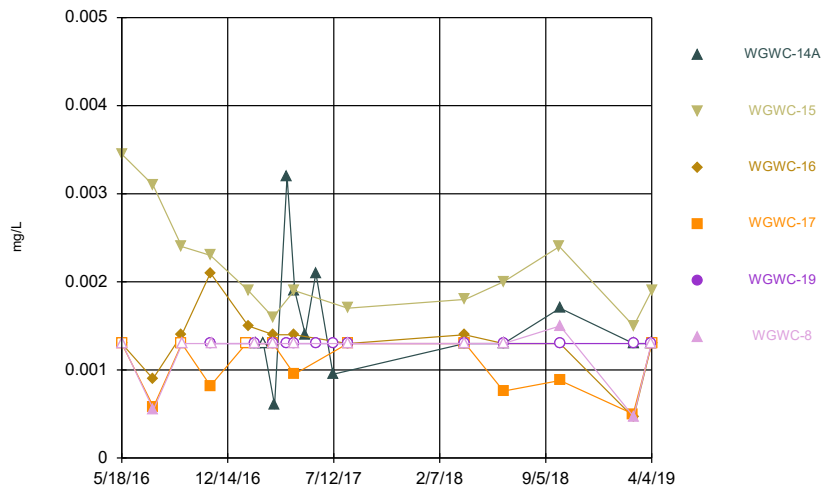
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Arsenic



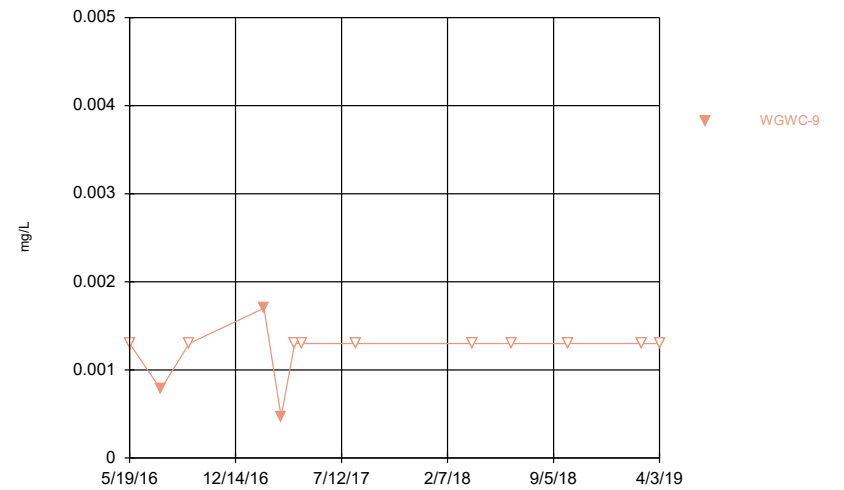
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Arsenic



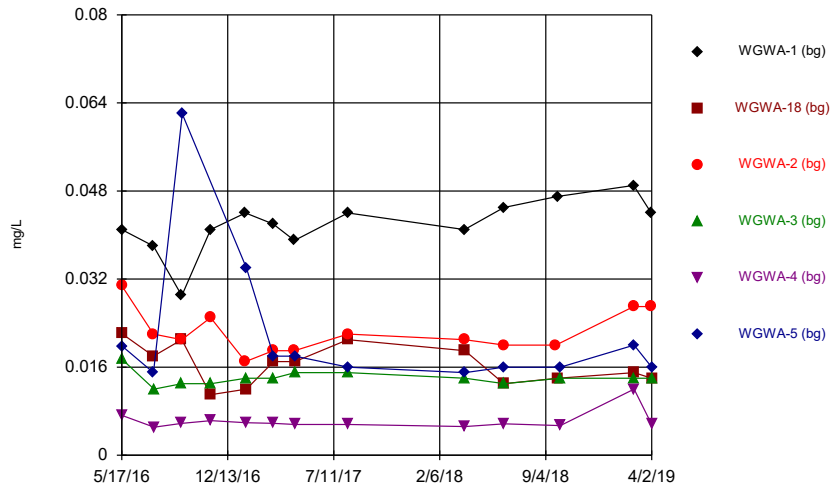
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Arsenic



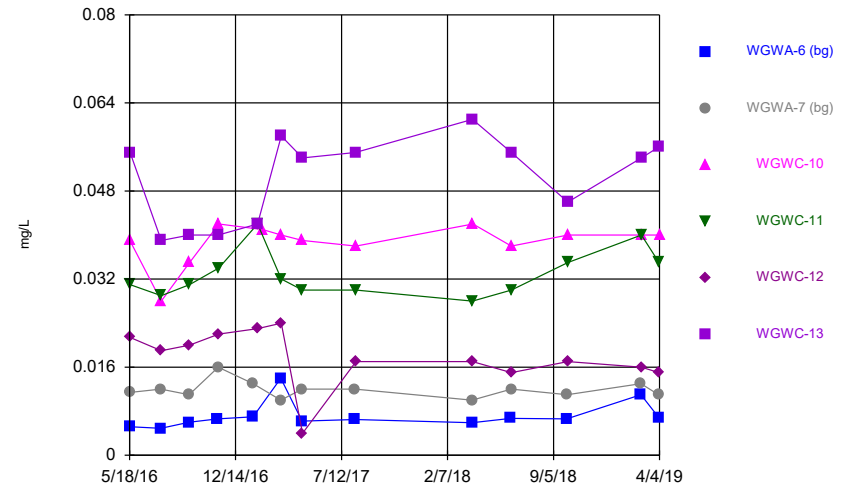
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Barium



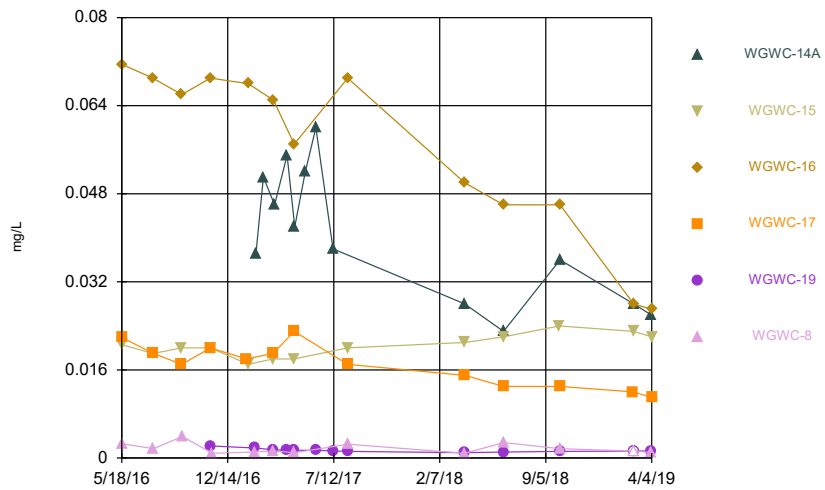
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Barium



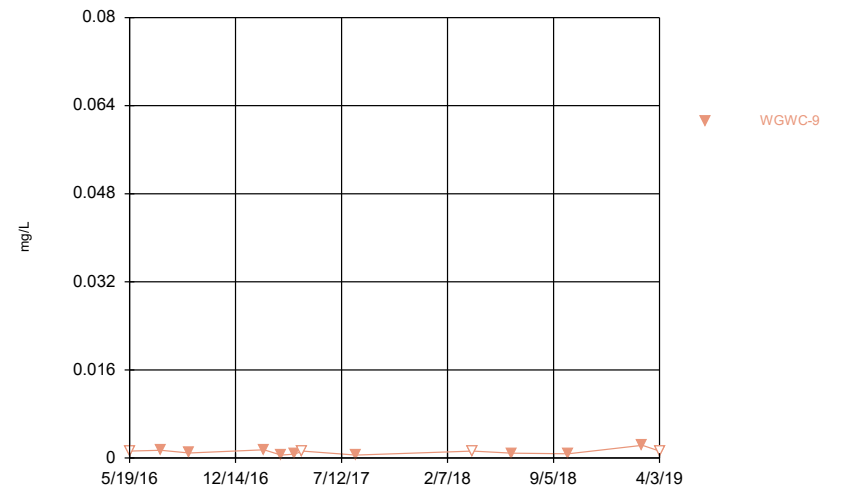
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Barium



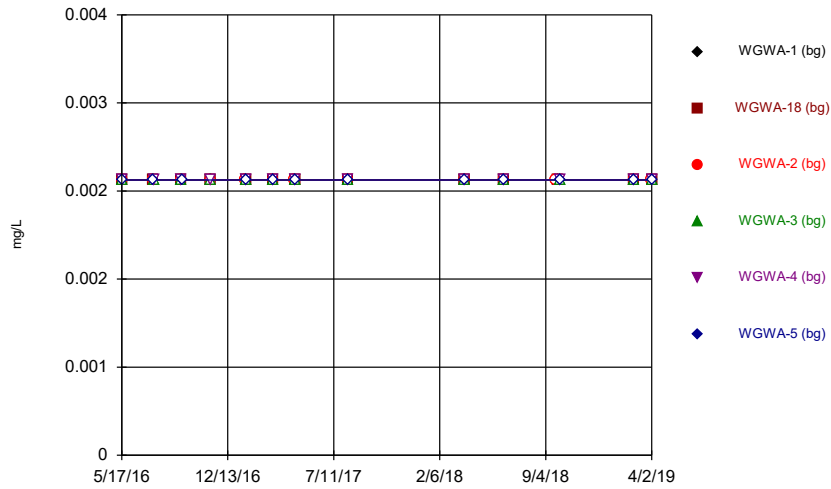
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Barium



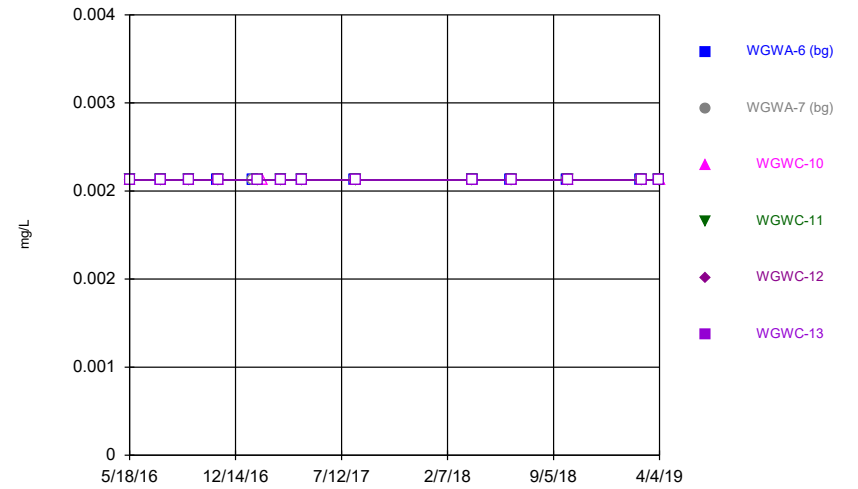
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Beryllium



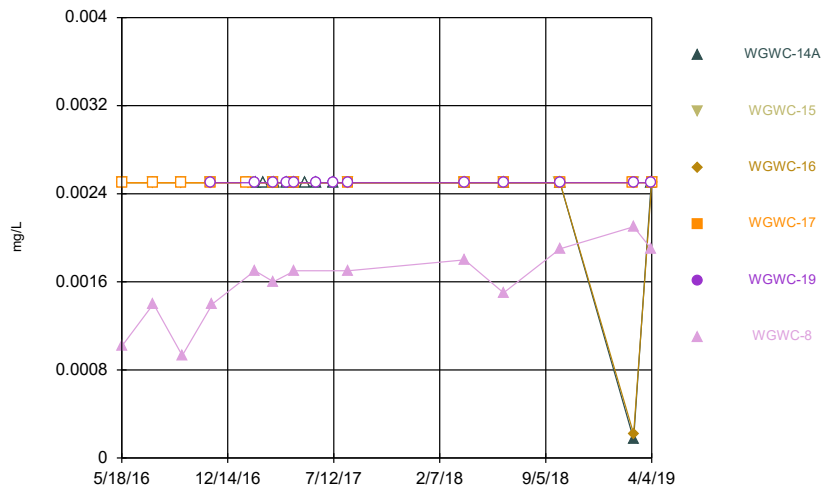
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Beryllium



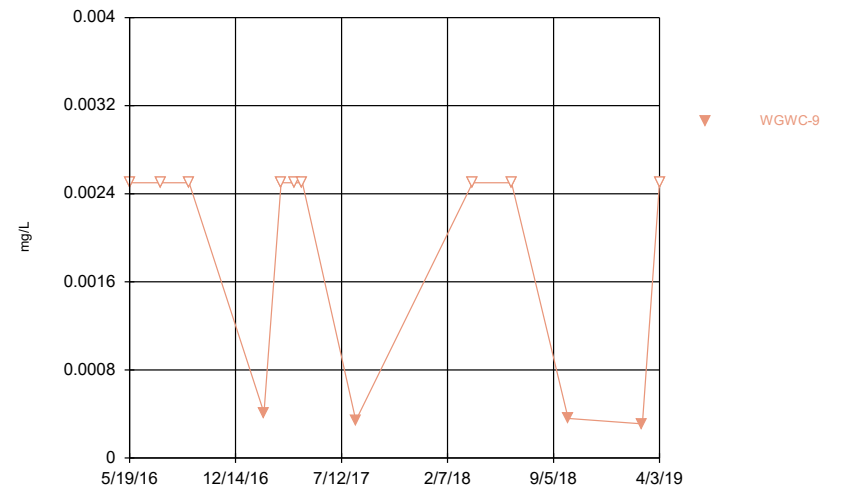
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Beryllium



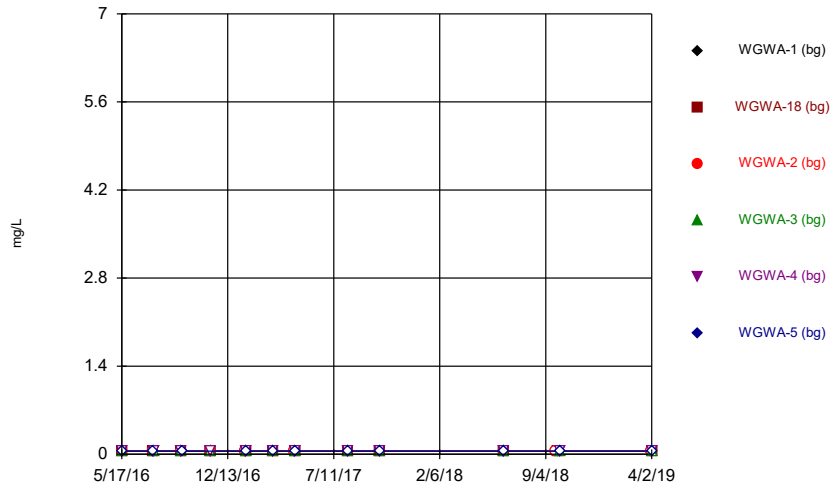
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Beryllium



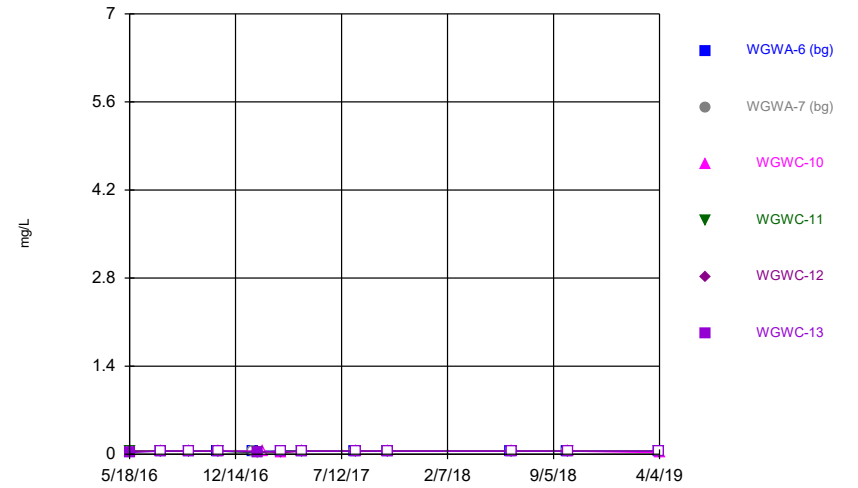
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Boron



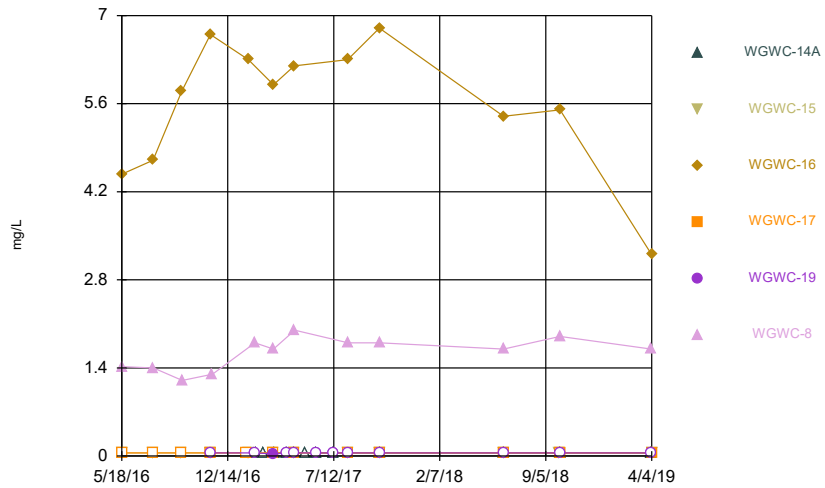
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Boron



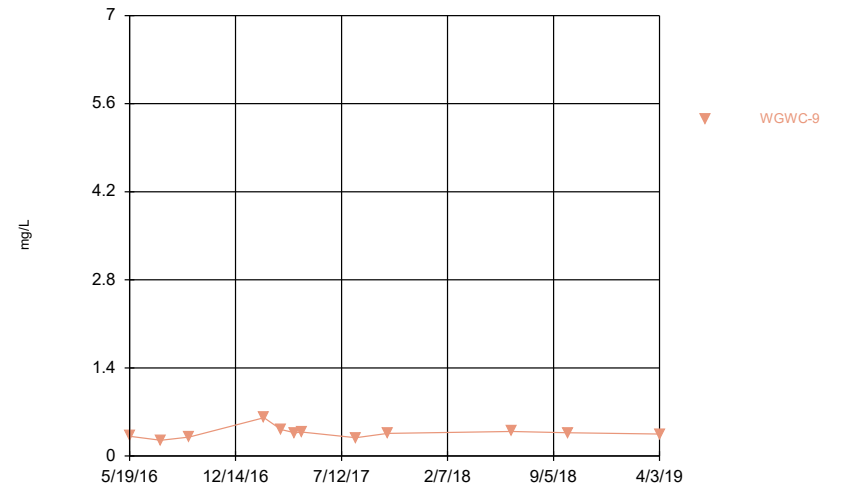
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Boron



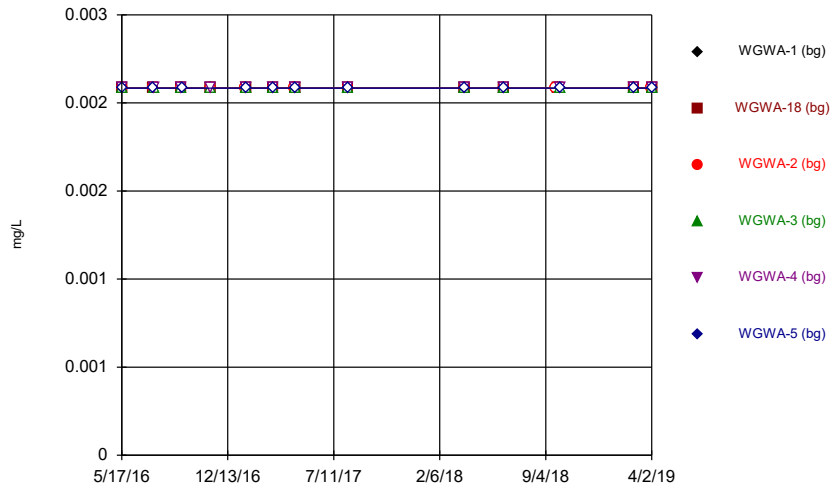
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Boron



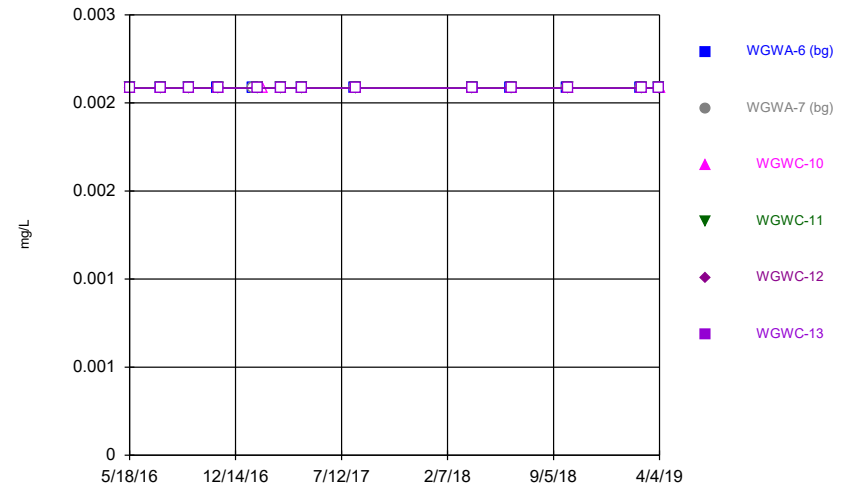
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Cadmium



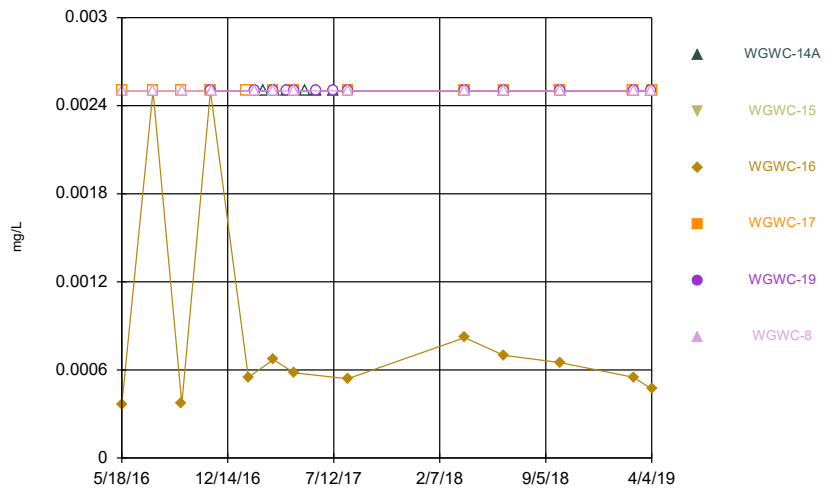
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Cadmium



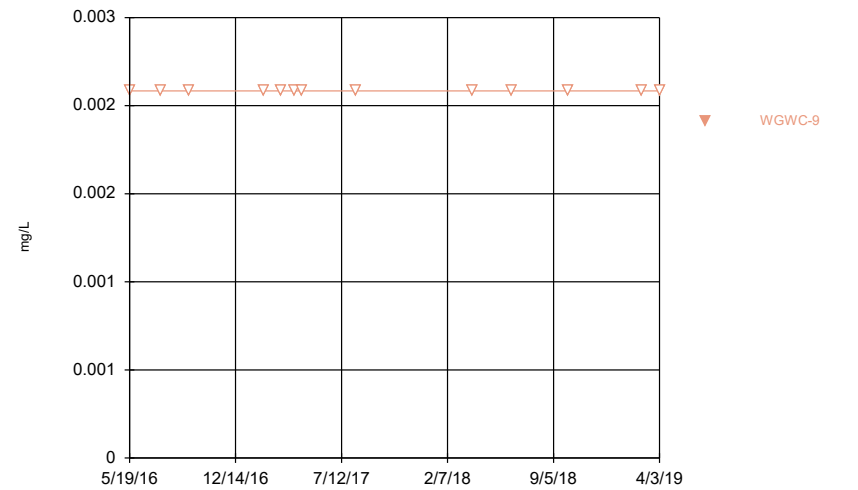
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Cadmium



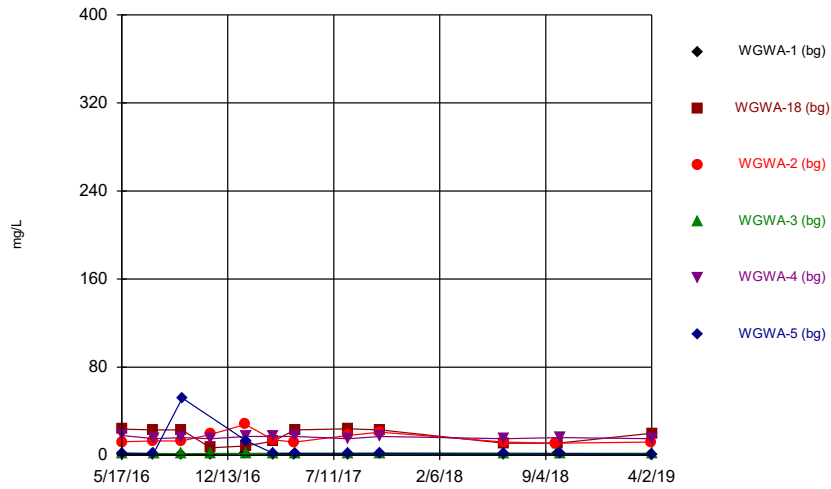
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Cadmium



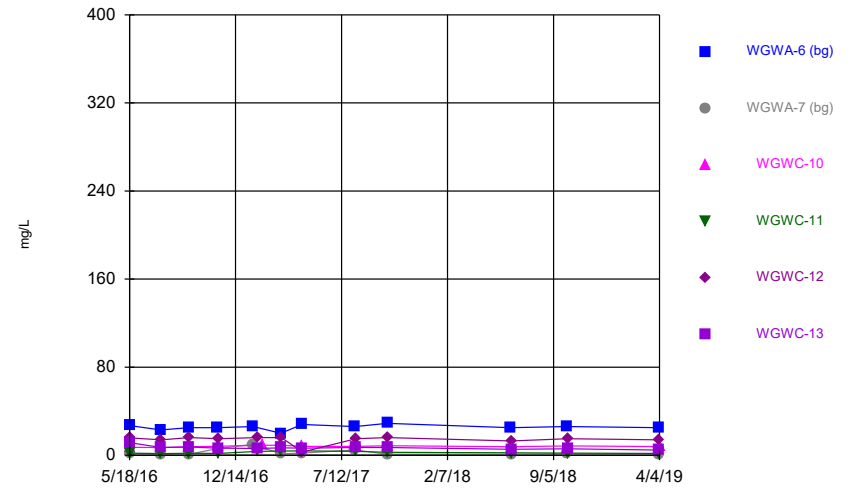
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Calcium



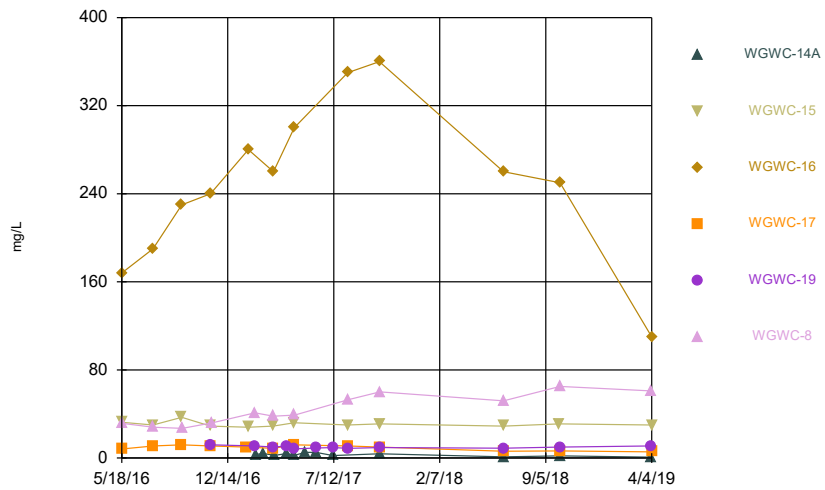
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Calcium



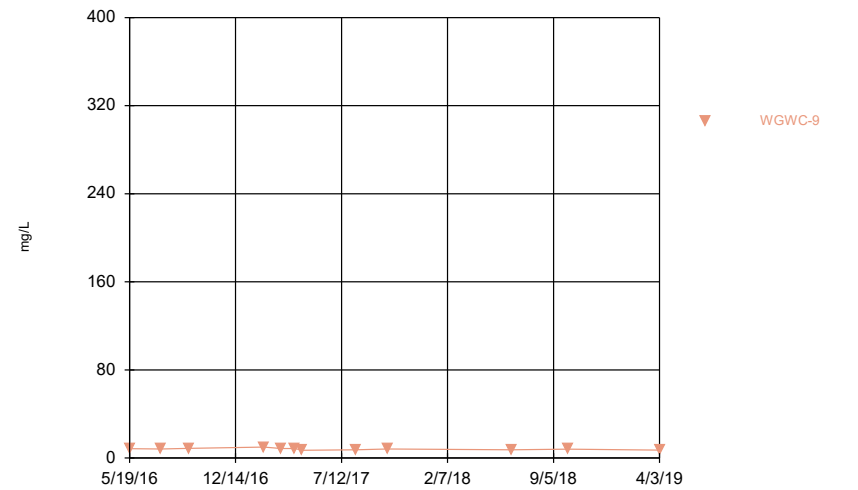
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Calcium



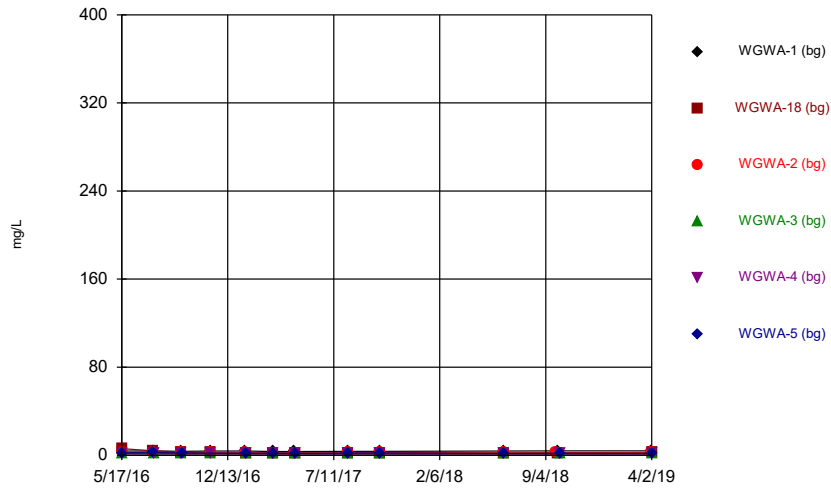
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Calcium



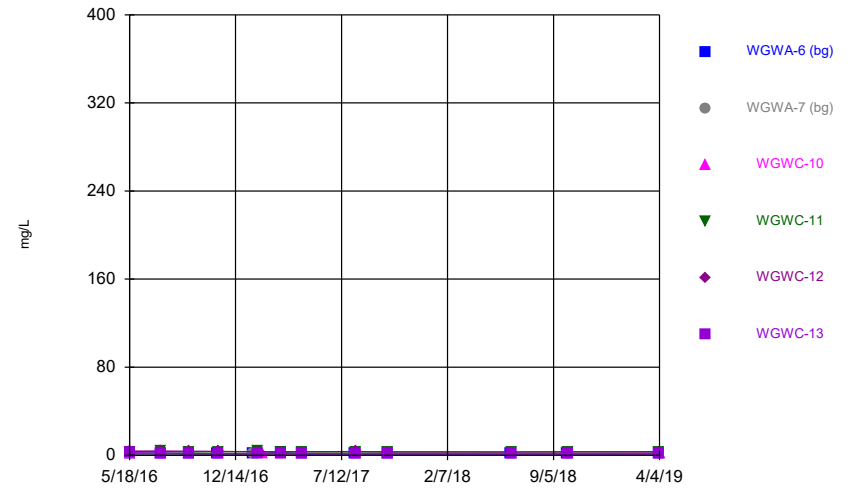
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Chloride



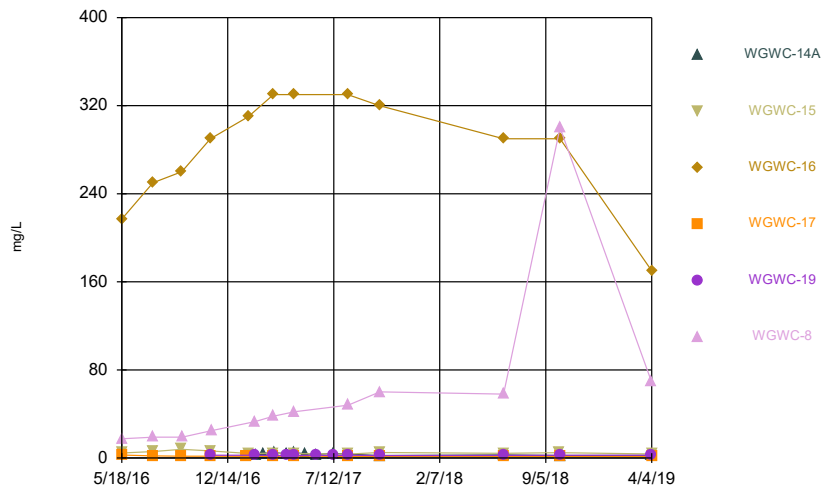
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Chloride



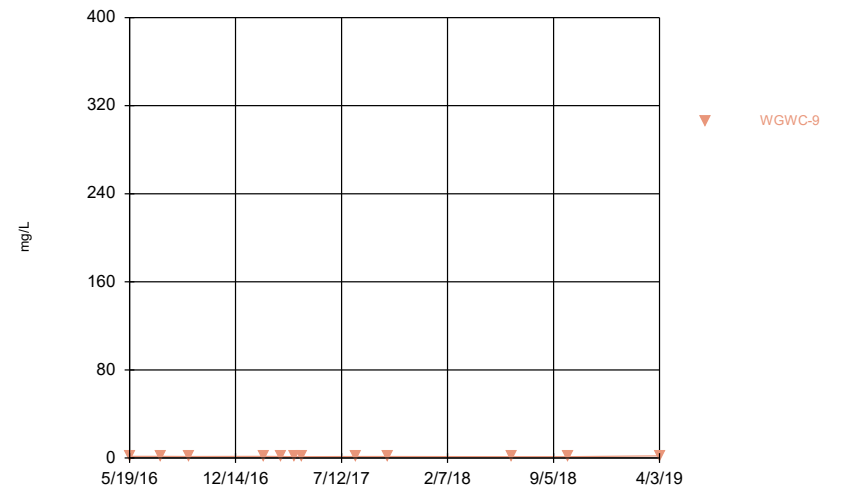
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Chloride



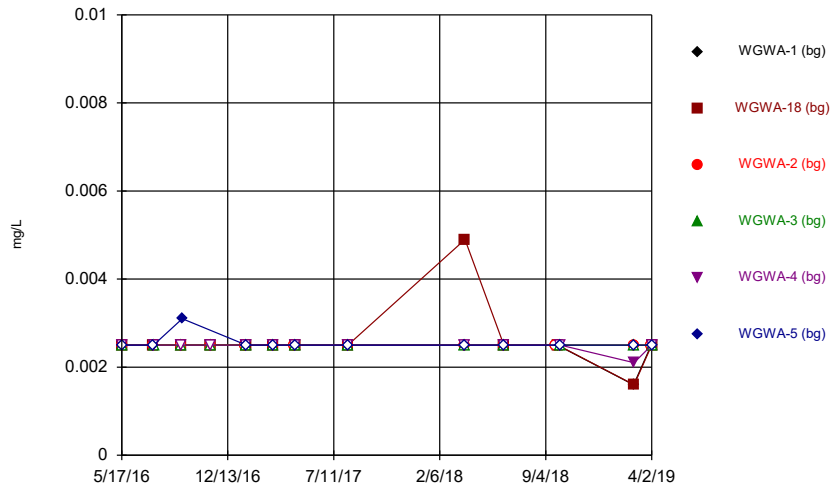
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Chloride



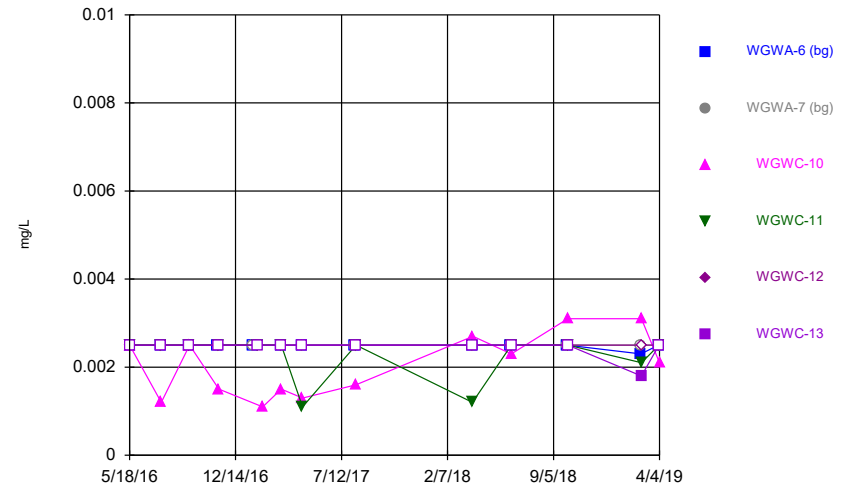
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Chromium



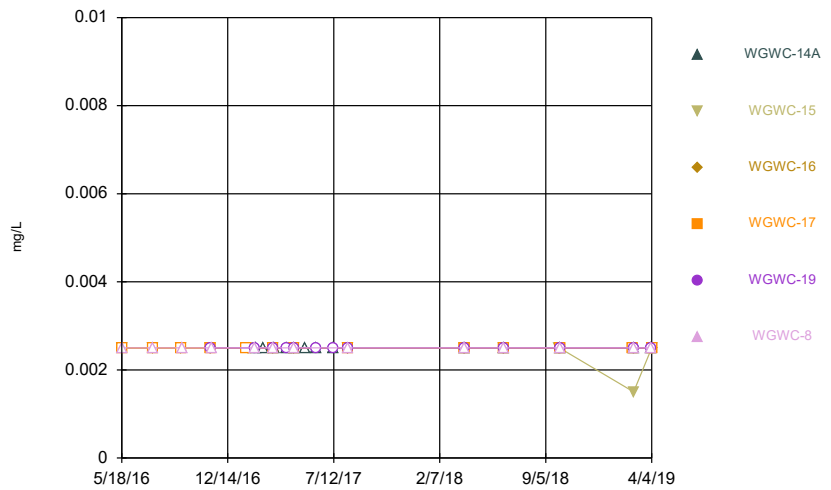
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Chromium



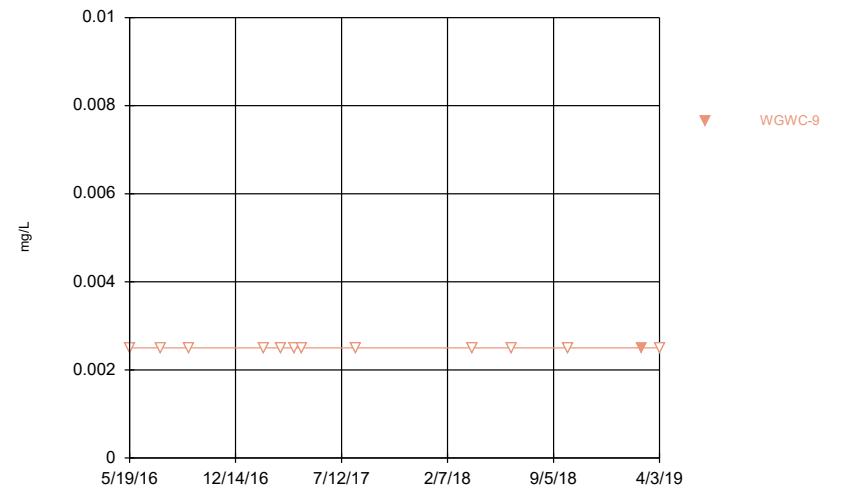
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Chromium



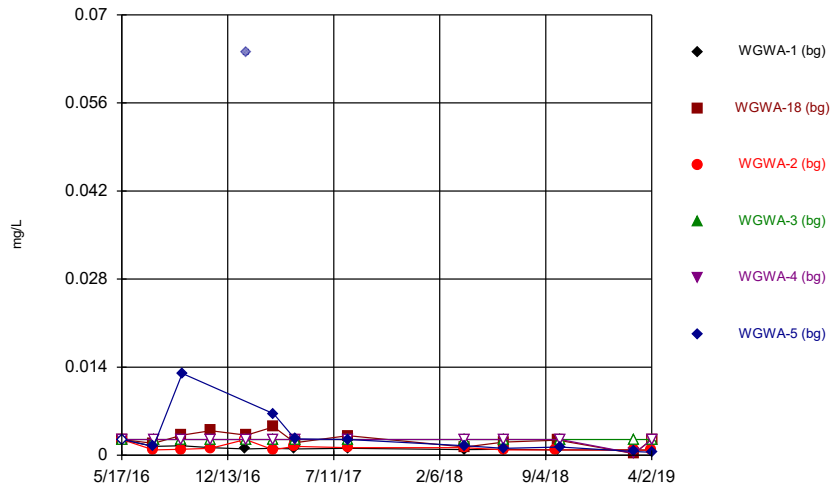
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Chromium



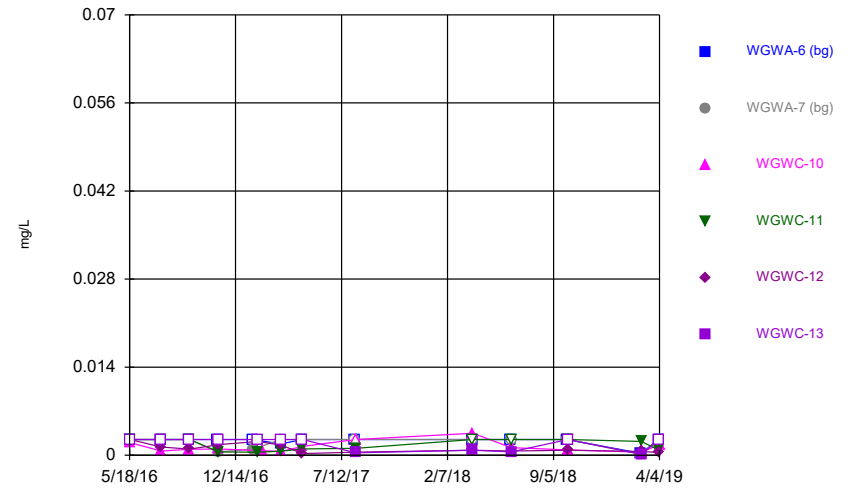
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Cobalt



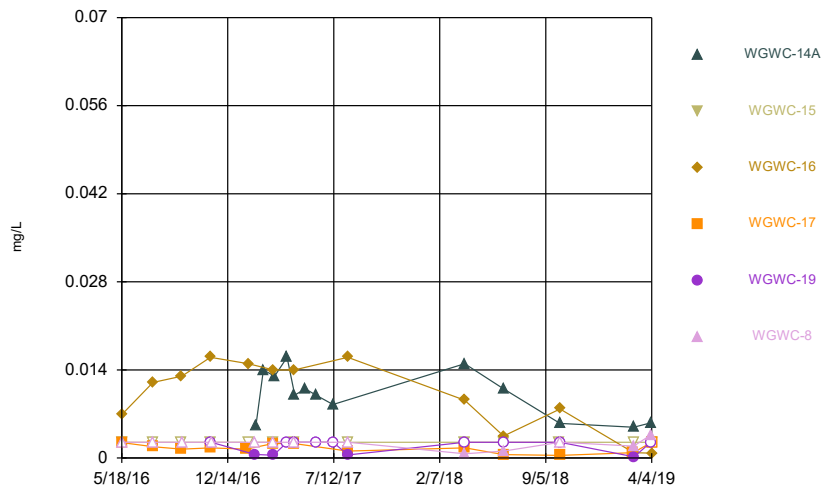
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Cobalt



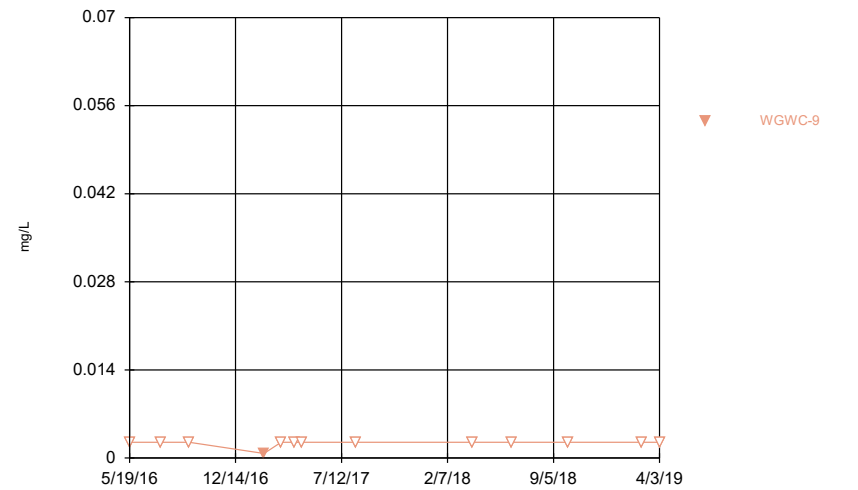
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Cobalt



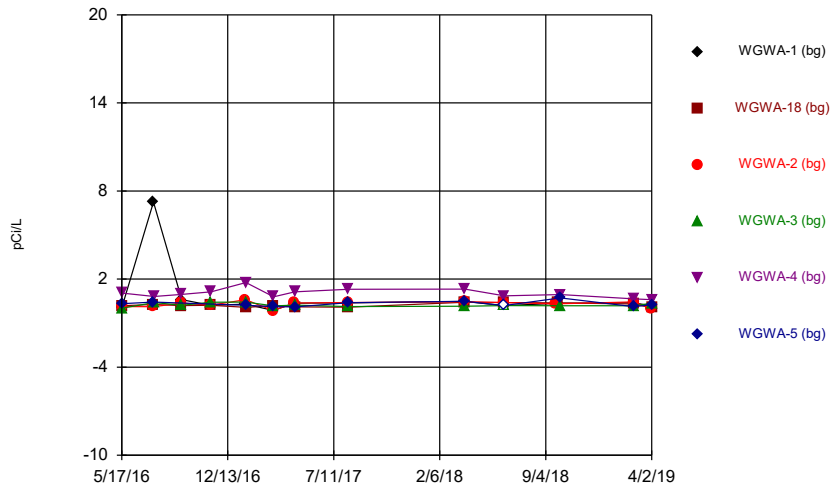
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Cobalt



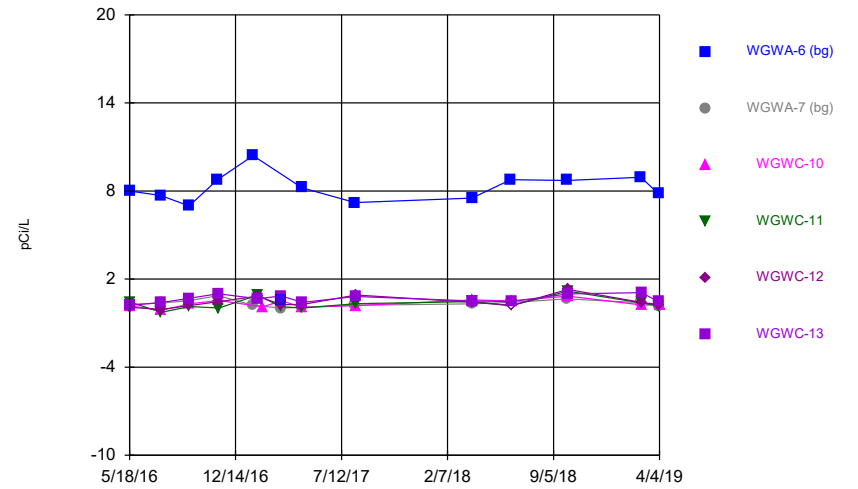
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Combined Radium 226 + 228



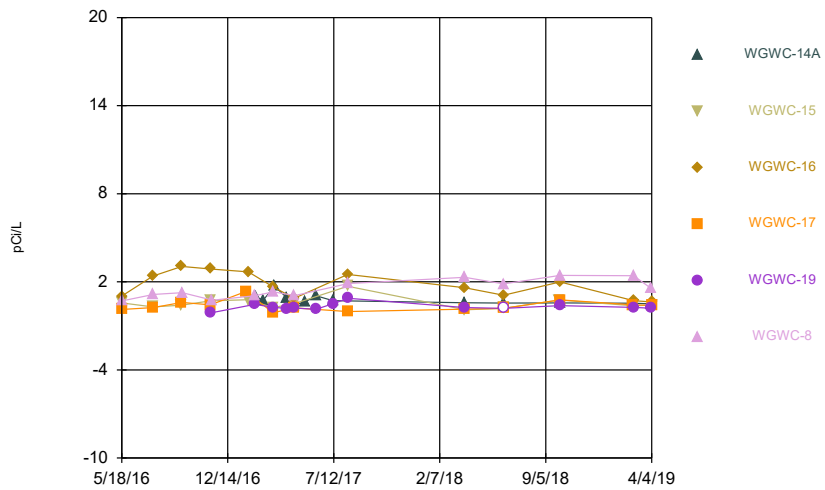
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Combined Radium 226 + 228



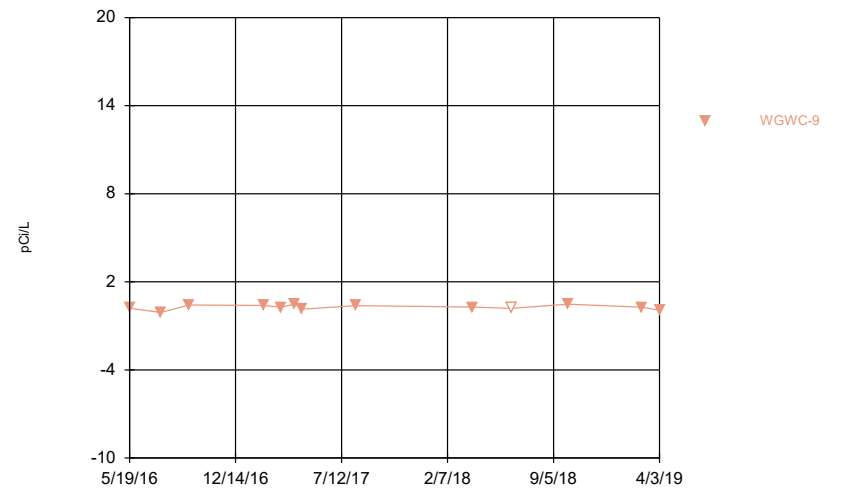
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Combined Radium 226 + 228



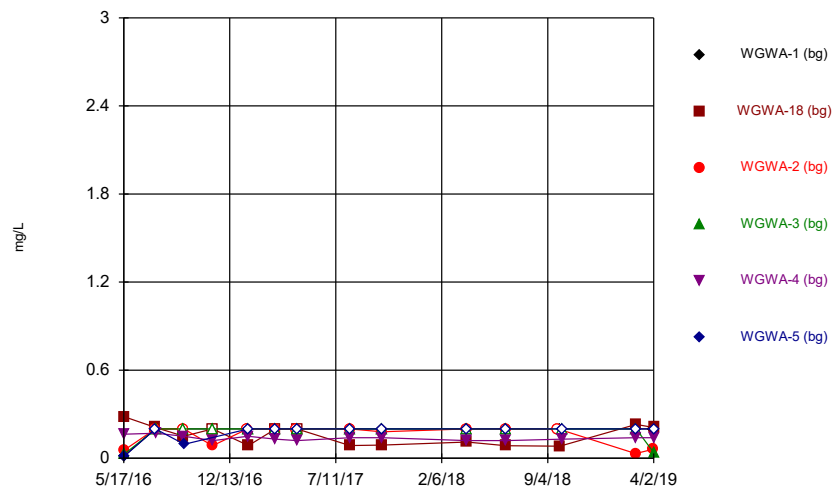
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Combined Radium 226 + 228



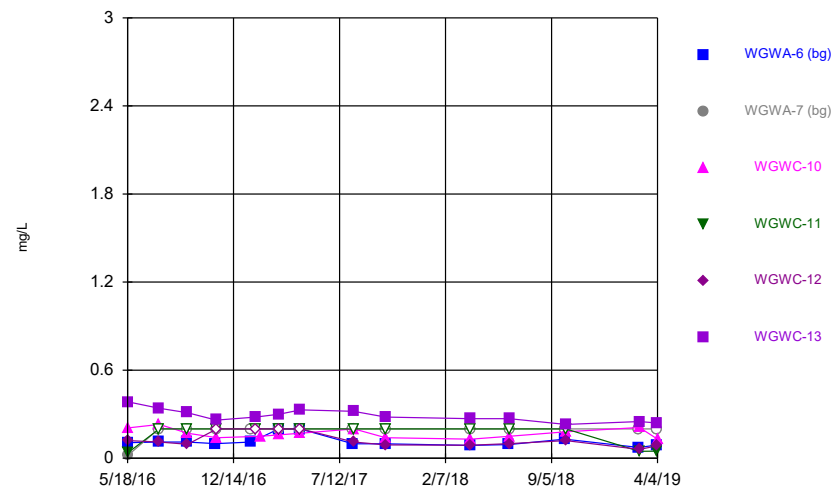
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Fluoride



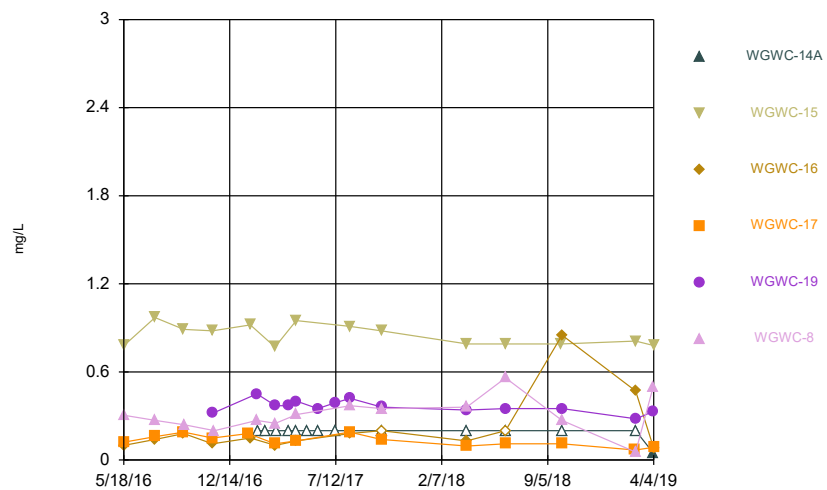
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Fluoride



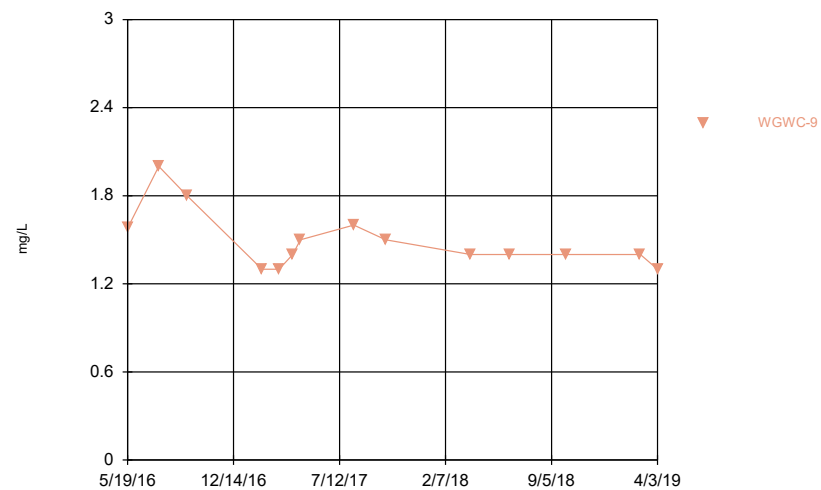
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Fluoride



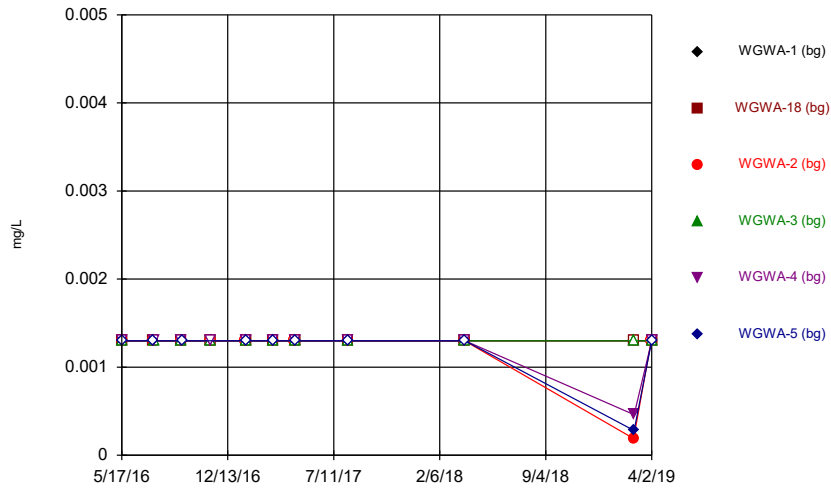
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Fluoride



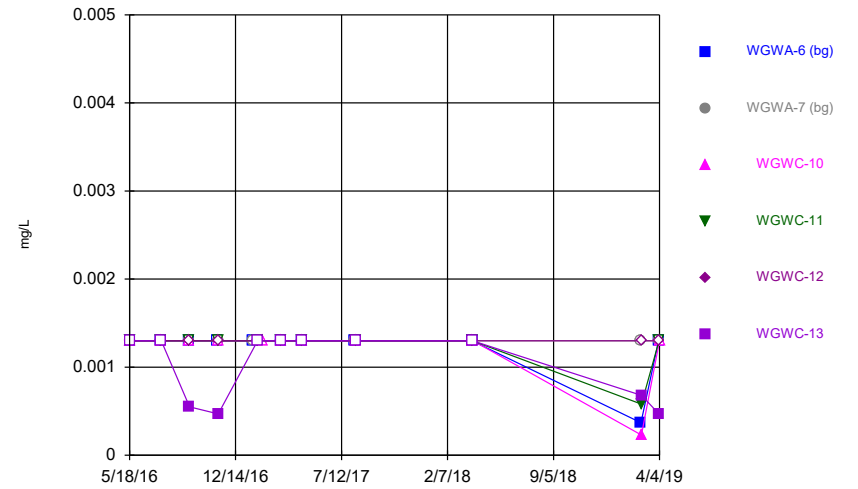
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Lead



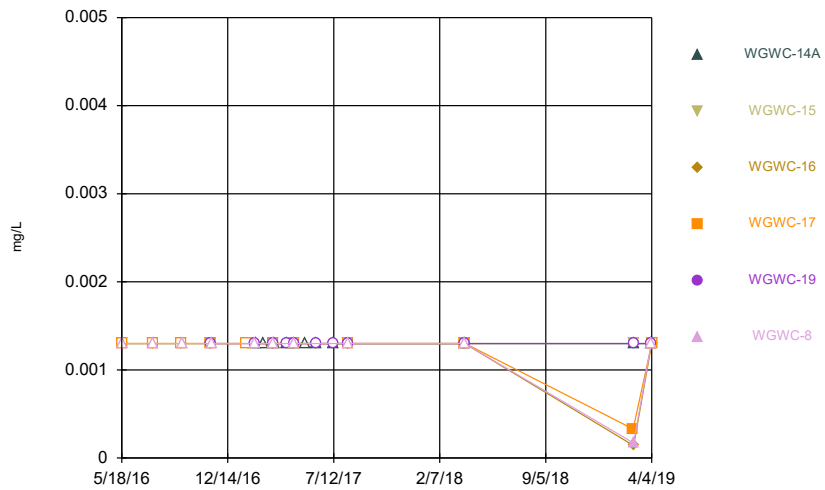
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Lead



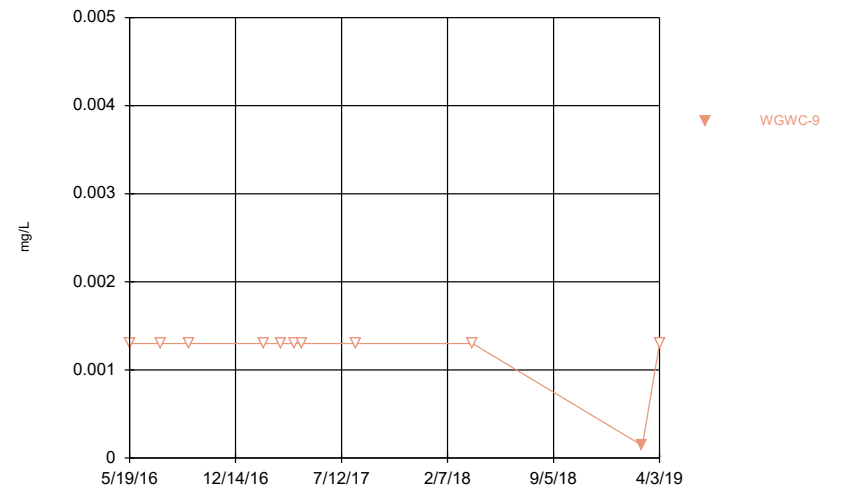
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Lead



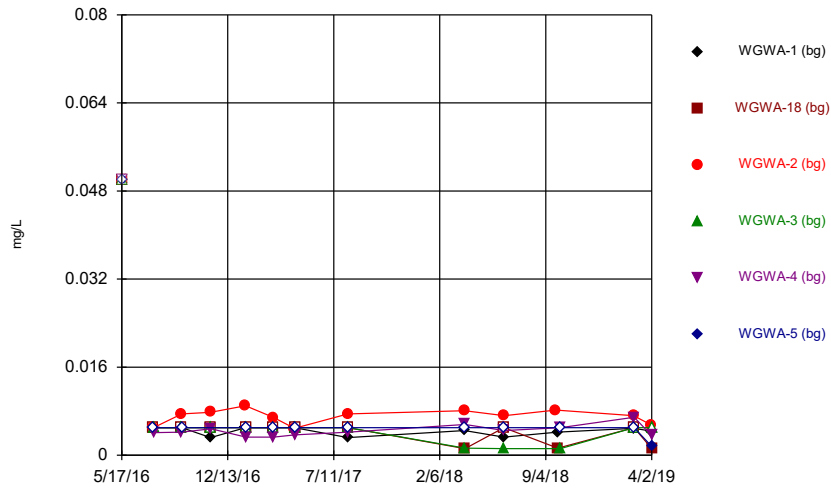
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Lead



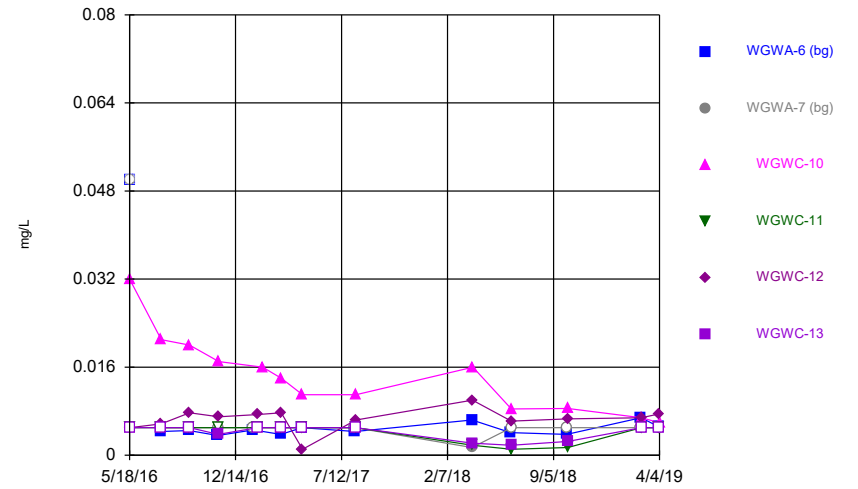
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Lithium



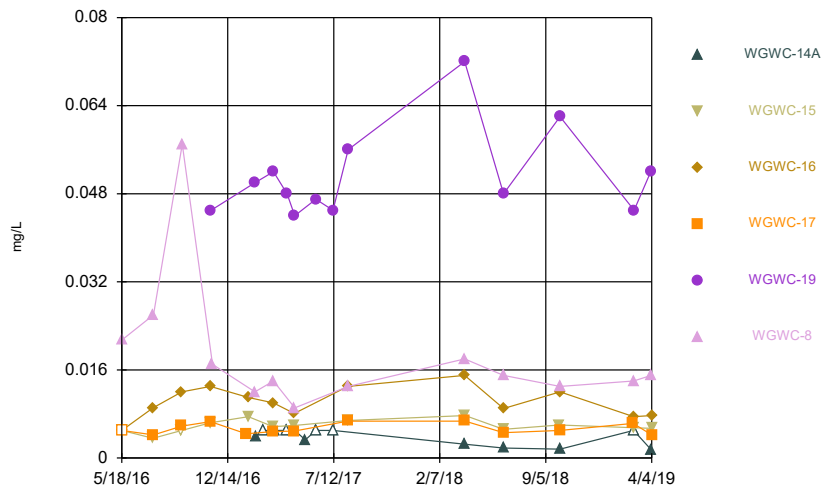
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Lithium



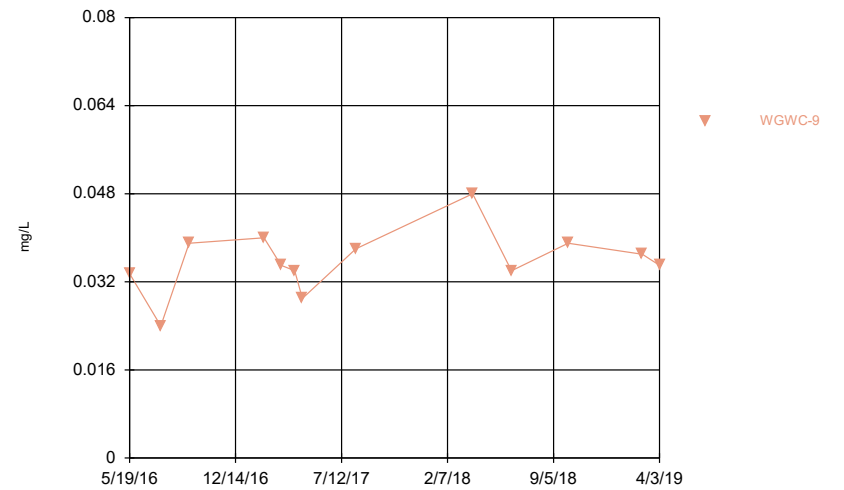
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Lithium



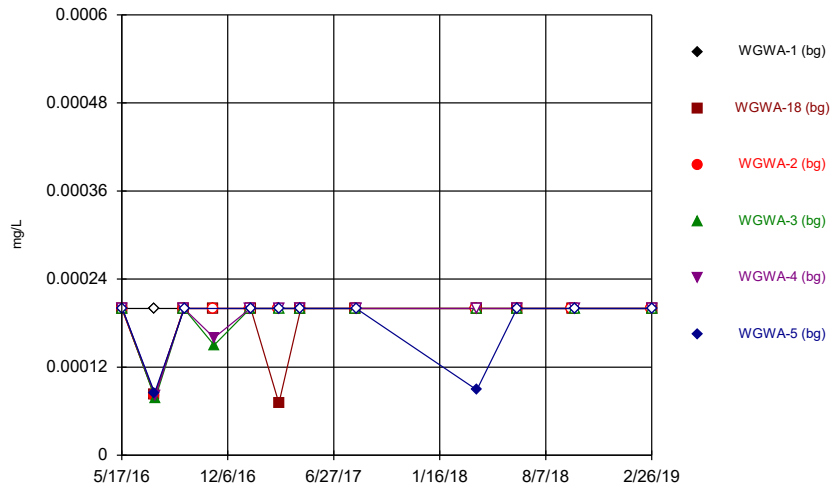
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Lithium



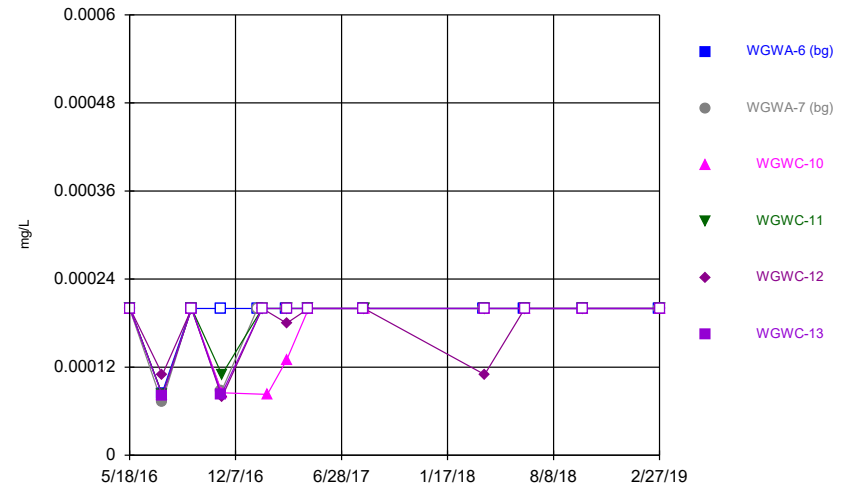
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Mercury



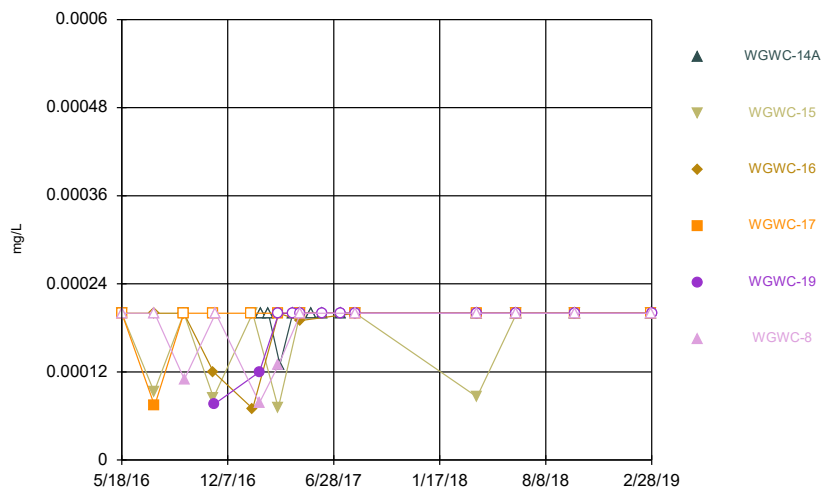
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Mercury



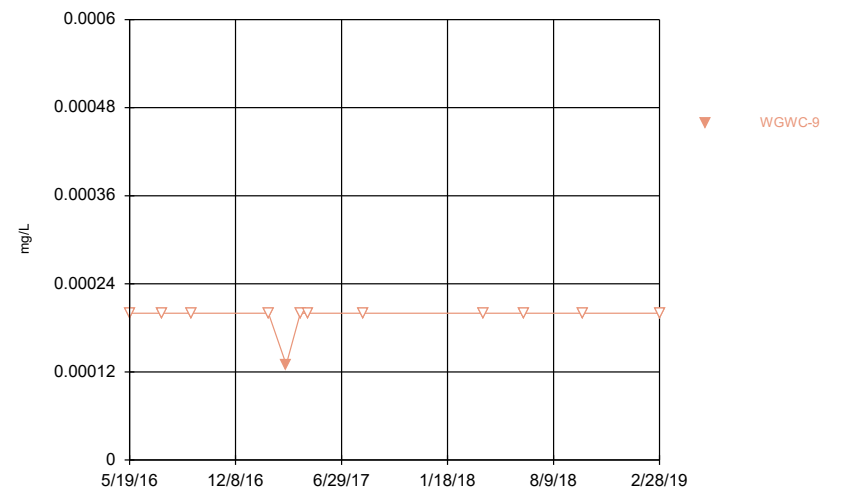
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Mercury



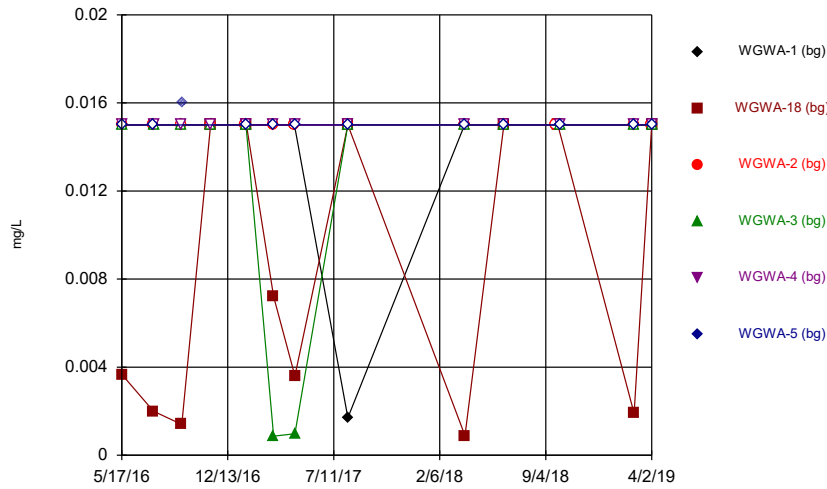
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Mercury



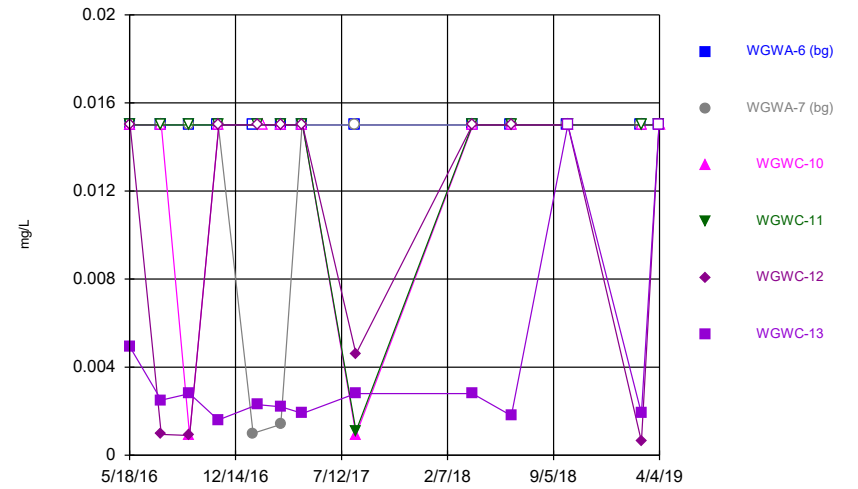
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Molybdenum



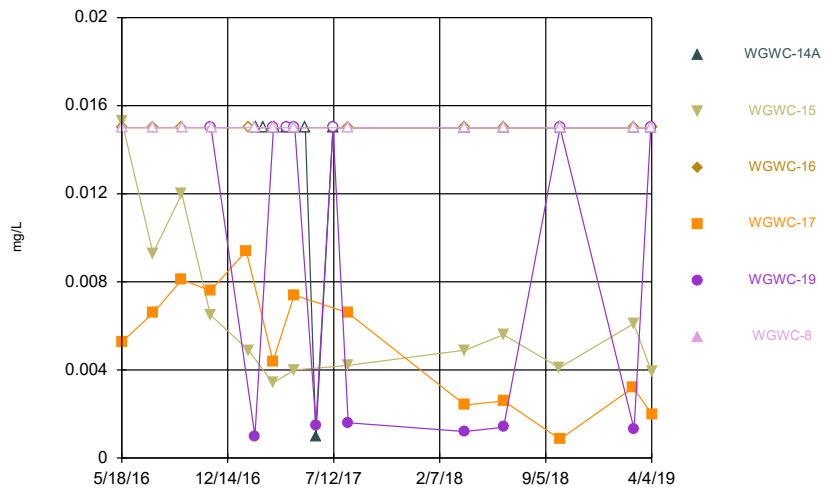
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Molybdenum



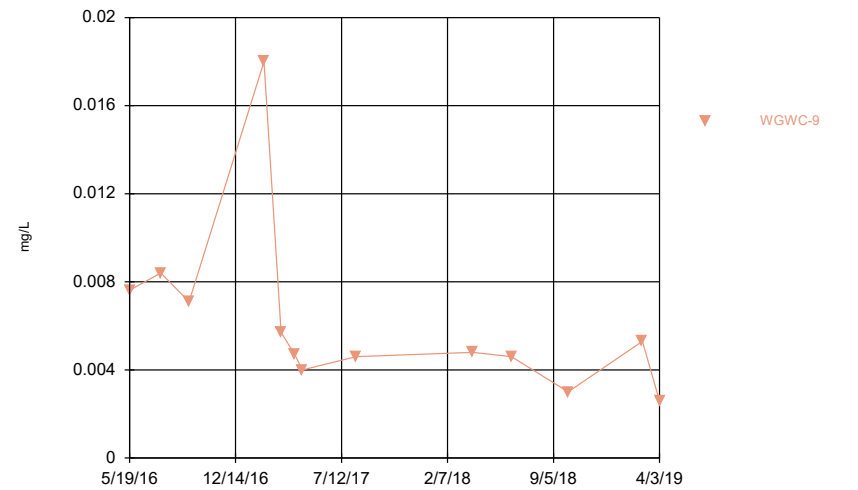
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Molybdenum



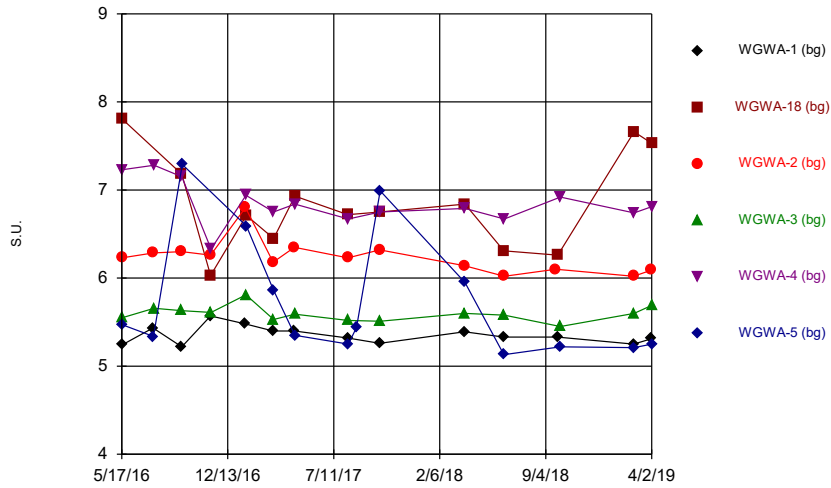
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Molybdenum



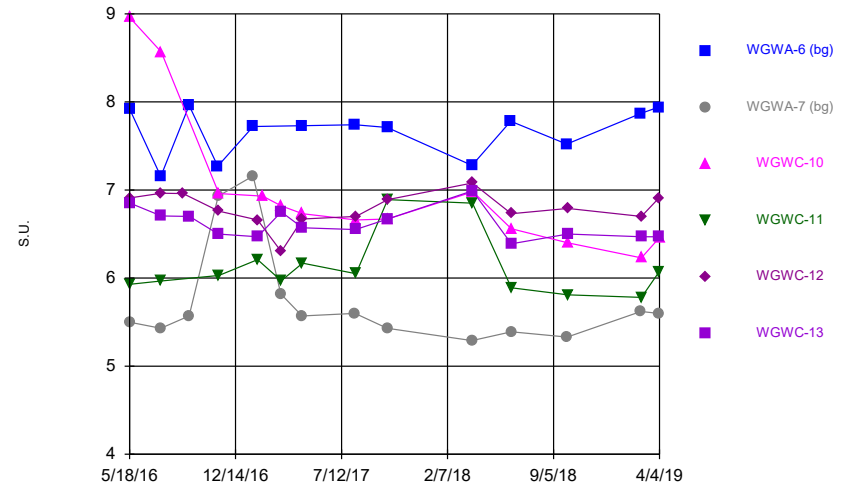
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

pH



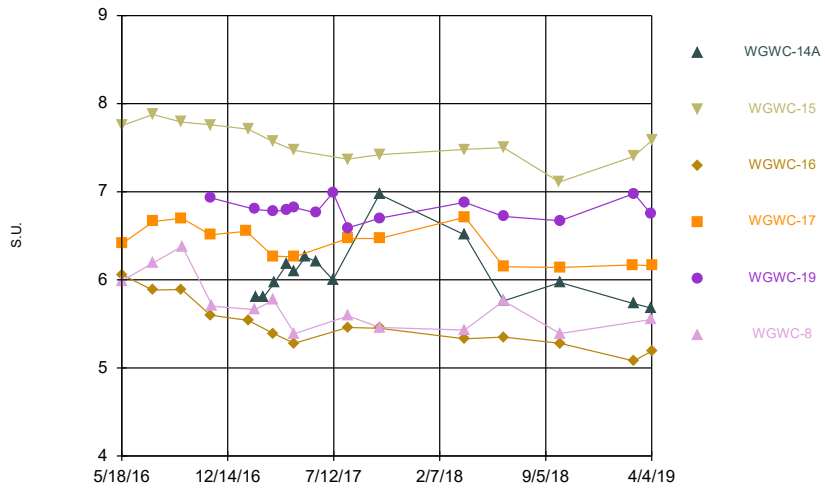
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pH



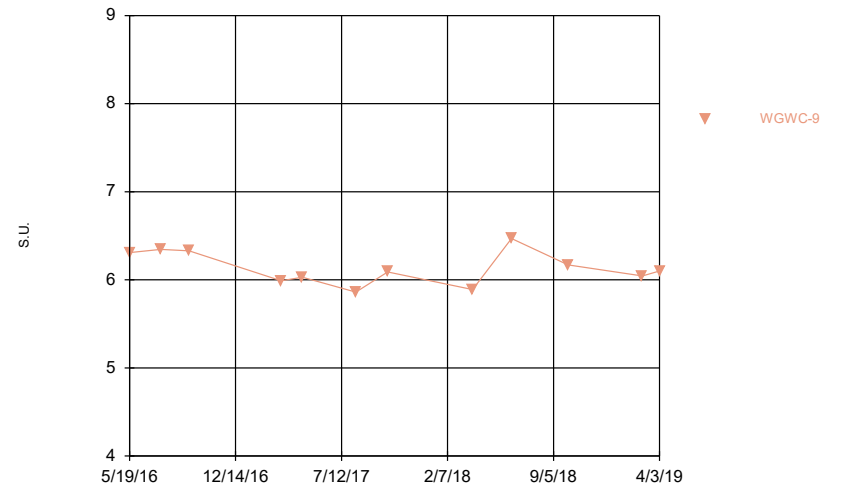
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pH



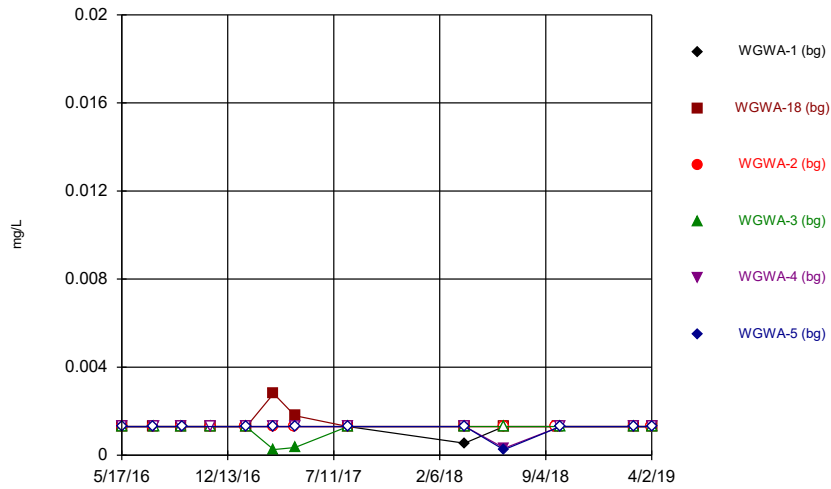
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pH



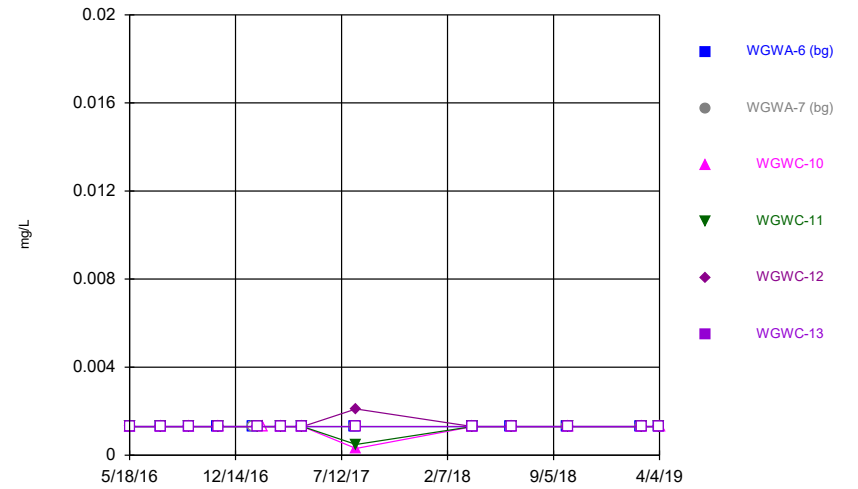
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Selenium



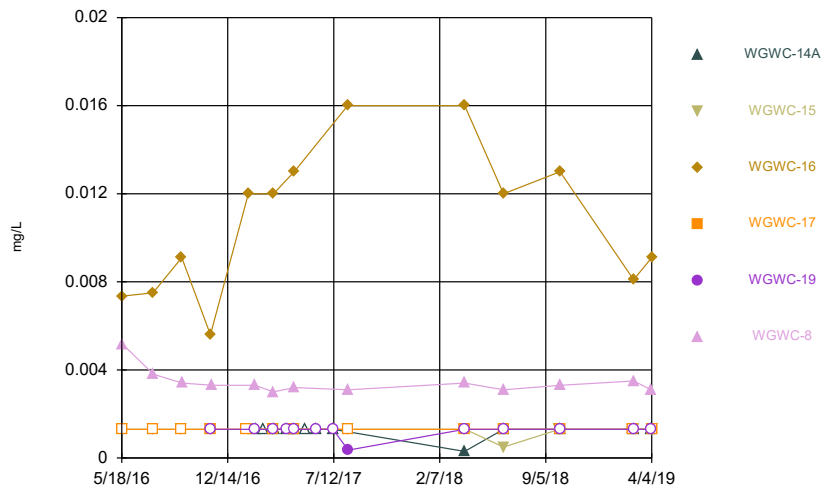
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Selenium



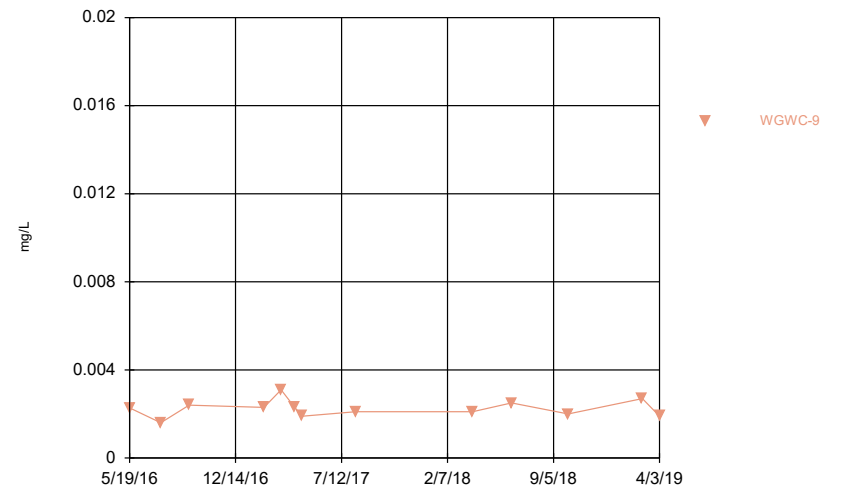
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Selenium



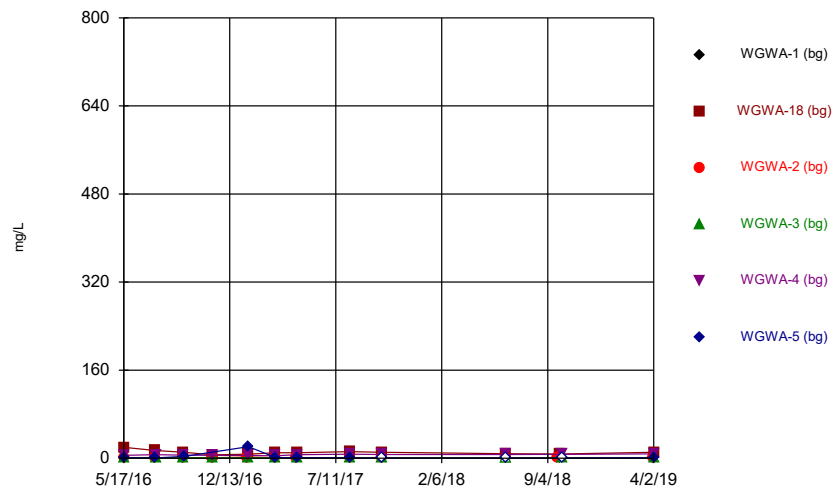
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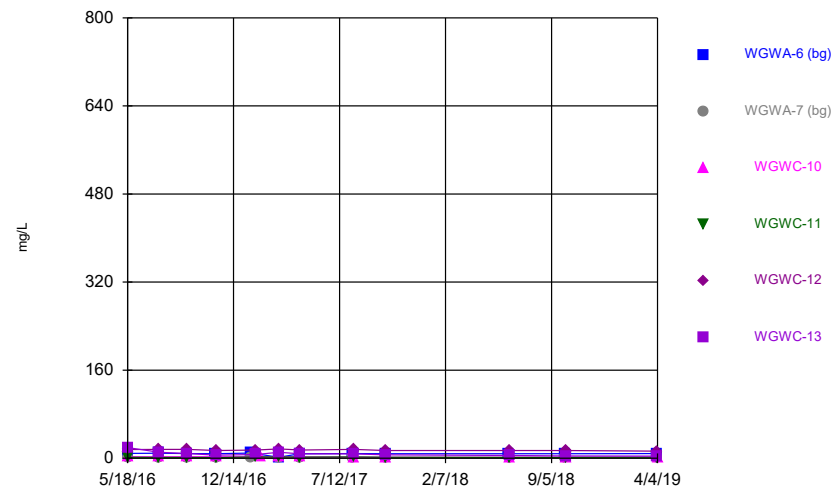
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Sulfate



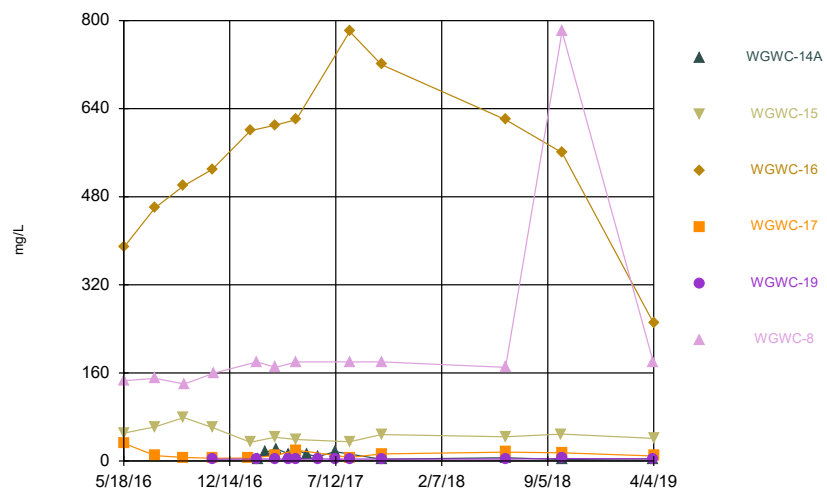
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Sulfate



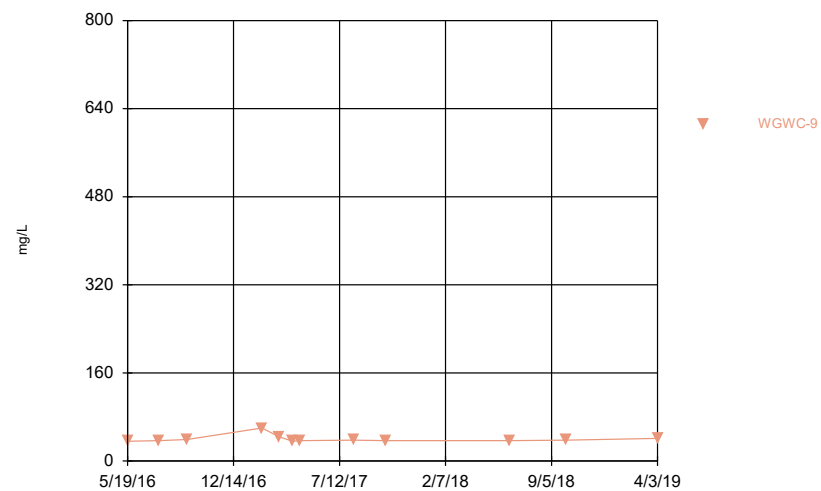
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Sulfate



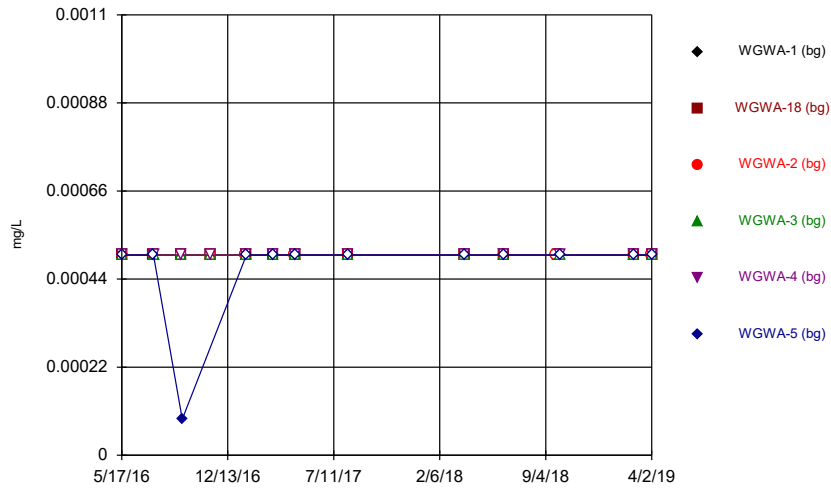
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Sulfate



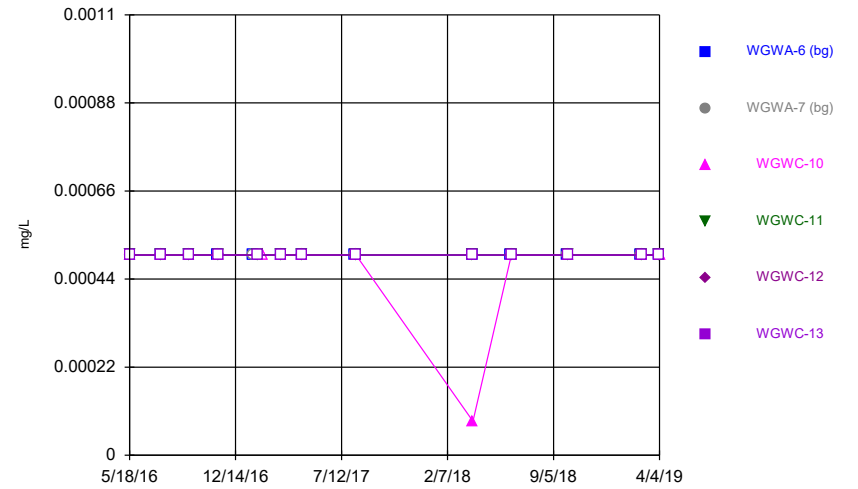
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Thallium



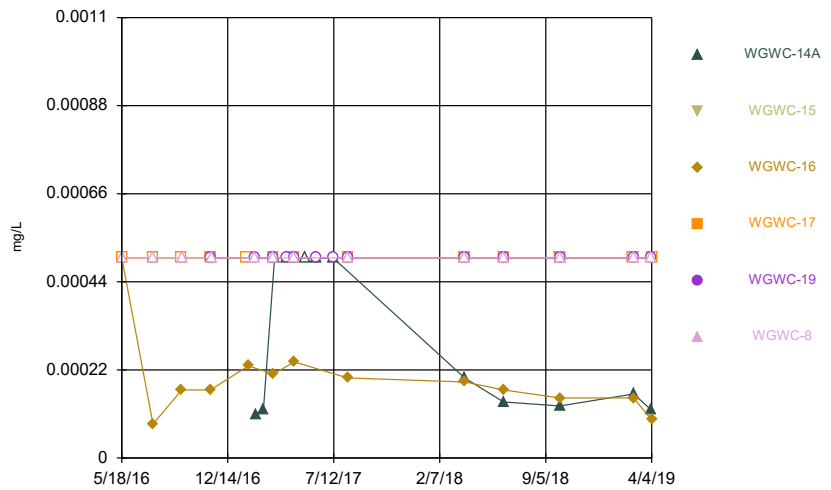
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Thallium



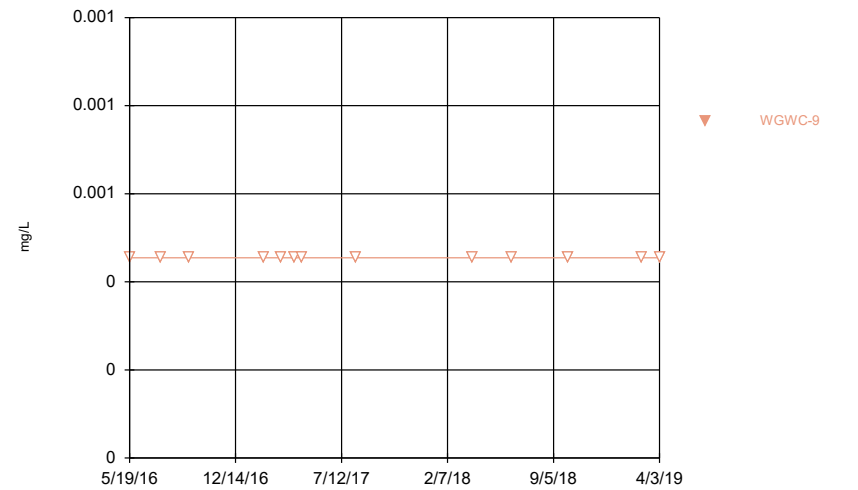
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Thallium



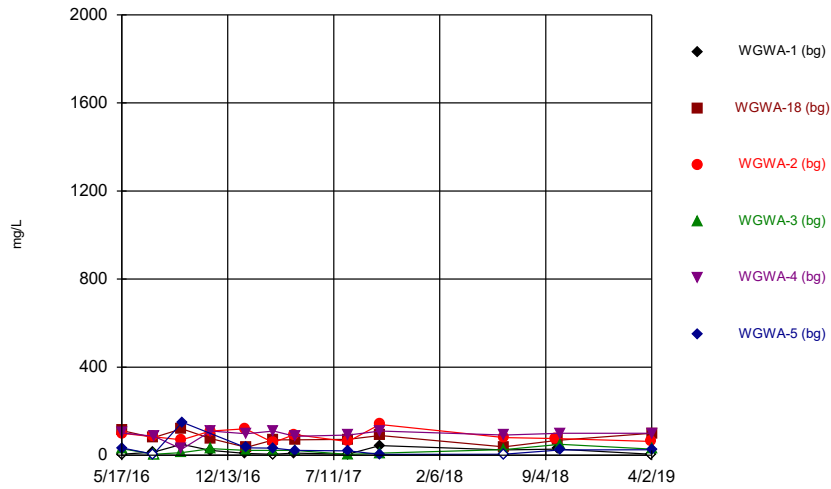
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Thallium



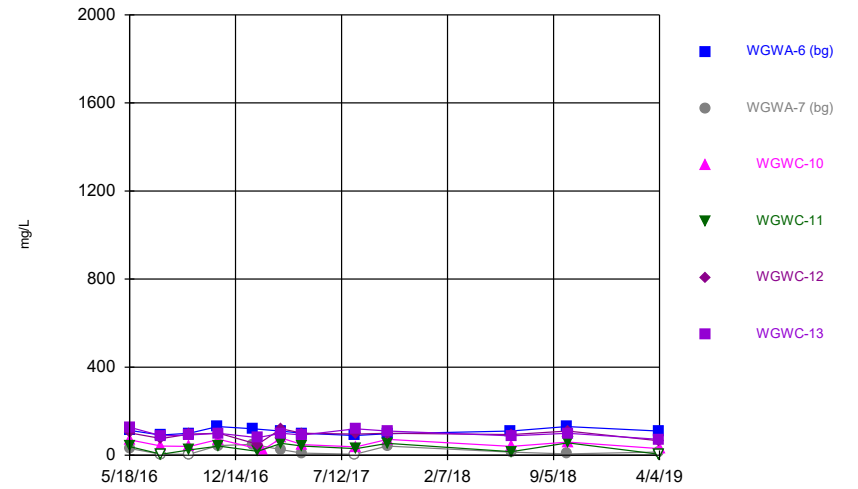
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Total Dissolved Solids



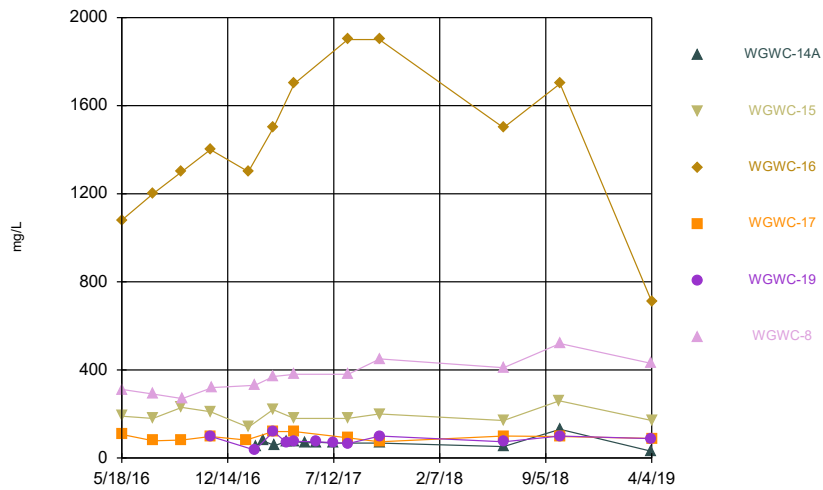
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Total Dissolved Solids



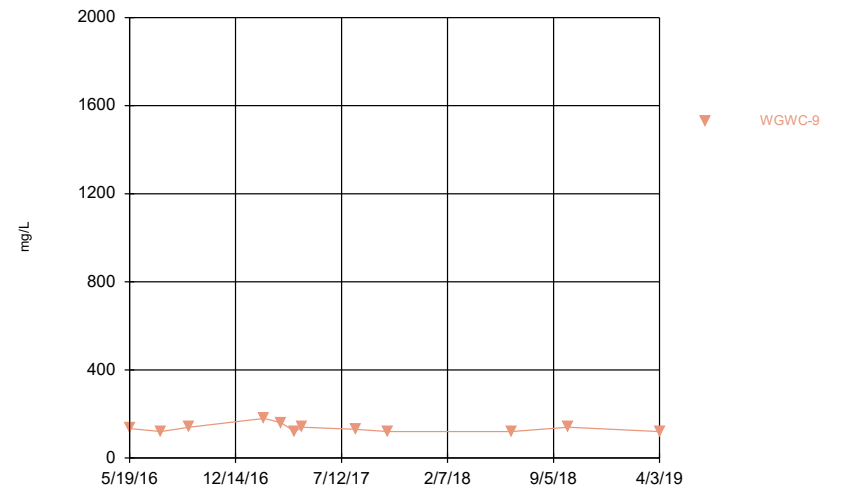
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Total Dissolved Solids



Time Series Analysis Run 6/6/2019 1:12 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Total Dissolved Solids



Time Series Analysis Run 6/6/2019 1:12 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

100% ND

Date: 11/14/2019 10:34 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Arsenic (mg/L)

WGWC-19

Beryllium (mg/L)

WGWC-10, WGWC-11, WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-19

Boron (mg/L)

WGWC-14A, WGWC-15

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-14A, WGWC-16, WGWC-17, WGWC-19, WGWC-8

Cobalt (mg/L)

WGWC-15

Lead (mg/L)

WGWC-12, WGWC-14A, WGWC-15, WGWC-19

Molybdenum (mg/L)

WGWC-16, WGWC-8

Selenium (mg/L)

WGWC-13, WGWC-17

Thallium (mg/L)

WGWC-11, WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-19, WGWC-8, WGWC-9

Interwell Prediction Limit Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/20/2019, 10:54 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	WGWC-16	0.08	n/a	9/18/2019	2.1	Yes	103	100	n/a	0.0001836	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.08	n/a	9/19/2019	1.7	Yes	103	100	n/a	0.0001836	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.08	n/a	9/19/2019	0.39	Yes	103	100	n/a	0.0001836	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-16	52	n/a	9/18/2019	62	Yes	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-8	52	n/a	9/19/2019	57	Yes	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-16	6.05	n/a	9/18/2019	100	Yes	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-8	6.05	n/a	9/19/2019	70	Yes	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-15	0.284	n/a	9/18/2019	0.81	Yes	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-19	0.284	n/a	9/18/2019	0.32	Yes	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-8	0.284	n/a	9/19/2019	0.42	Yes	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-9	0.284	n/a	9/19/2019	1.3	Yes	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	WGWC-15	21	n/a	9/18/2019	37	Yes	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-16	21	n/a	9/18/2019	130	Yes	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-8	21	n/a	9/19/2019	190	Yes	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-9	21	n/a	9/19/2019	42	Yes	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-15	150	n/a	9/18/2019	160	Yes	103	9.709	n/a	0.0001836	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-16	150	n/a	9/18/2019	520	Yes	103	9.709	n/a	0.0001836	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-8	150	n/a	9/19/2019	440	Yes	103	9.709	n/a	0.0001836	NP Inter (normality) 1 of 2

Interwell Prediction Limit All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/20/2019, 10:54 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	WGWC-10	0.08	n/a	9/19/2019	0.08ND	No	103	100	n/a	0.0001836	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-11	0.08	n/a	9/19/2019	0.08ND	No	103	100	n/a	0.0001836	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-12	0.08	n/a	9/19/2019	0.08ND	No	103	100	n/a	0.0001836	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-13	0.08	n/a	9/18/2019	0.08ND	No	103	100	n/a	0.0001836	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-16	0.08	n/a	9/18/2019	2.1	Yes	103	100	n/a	0.0001836	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-17	0.08	n/a	9/18/2019	0.08ND	No	103	100	n/a	0.0001836	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-19	0.08	n/a	9/18/2019	0.08ND	No	103	100	n/a	0.0001836	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-8	0.08	n/a	9/19/2019	1.7	Yes	103	100	n/a	0.0001836	NP Inter (NDs) 1 of 2
Boron (mg/L)	WGWC-9	0.08	n/a	9/19/2019	0.39	Yes	103	100	n/a	0.0001836	NP Inter (NDs) 1 of 2
Calcium (mg/L)	WGWC-10	52	n/a	9/19/2019	7.5	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-11	52	n/a	9/19/2019	1.4	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-12	52	n/a	9/19/2019	14	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-13	52	n/a	9/18/2019	4.9	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-14A	52	n/a	9/18/2019	0.85	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-15	52	n/a	9/18/2019	31	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-16	52	n/a	9/18/2019	62	Yes	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-17	52	n/a	9/18/2019	5.5	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-19	52	n/a	9/18/2019	8.8	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-8	52	n/a	9/19/2019	57	Yes	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Calcium (mg/L)	WGWC-9	52	n/a	9/19/2019	8.1	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-10	6.05	n/a	9/19/2019	1.5	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-11	6.05	n/a	9/19/2019	3.2	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-12	6.05	n/a	9/19/2019	3.2	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-13	6.05	n/a	9/18/2019	1.2	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-14A	6.05	n/a	9/18/2019	2.2	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-15	6.05	n/a	9/18/2019	3.2	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-16	6.05	n/a	9/18/2019	100	Yes	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-17	6.05	n/a	9/18/2019	1.5	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-19	6.05	n/a	9/18/2019	2.7	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-8	6.05	n/a	9/19/2019	70	Yes	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Chloride (mg/L)	WGWC-9	6.05	n/a	9/19/2019	1.5	No	103	0	n/a	0.0001836	NP Inter (normality) 1 of 2
Fluoride (mg/L)	WGWC-10	0.284	n/a	9/19/2019	0.13	No	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-11	0.284	n/a	9/19/2019	0.037	No	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-12	0.284	n/a	9/19/2019	0.093	No	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-13	0.284	n/a	9/18/2019	0.22	No	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-14A	0.284	n/a	9/18/2019	0.035	No	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-15	0.284	n/a	9/18/2019	0.81	Yes	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-16	0.284	n/a	9/18/2019	0.058	No	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-17	0.284	n/a	9/18/2019	0.066	No	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-19	0.284	n/a	9/18/2019	0.32	Yes	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-8	0.284	n/a	9/19/2019	0.42	Yes	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	WGWC-9	0.284	n/a	9/19/2019	1.3	Yes	119	53.78	n/a	0.0001375	NP Inter (NDs) 1 of 2
pH (S.U.)	WGWC-10	7.96	5.13	9/19/2019	6.45	No	118	0	n/a	0.0002807	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-11	7.96	5.13	9/19/2019	5.82	No	118	0	n/a	0.0002807	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-12	7.96	5.13	9/19/2019	6.63	No	118	0	n/a	0.0002807	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-13	7.96	5.13	9/18/2019	6.46	No	118	0	n/a	0.0002807	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-14A	7.96	5.13	9/18/2019	5.5	No	118	0	n/a	0.0002807	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-15	7.96	5.13	9/18/2019	7.8	No	118	0	n/a	0.0002807	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-16	7.96	5.13	9/18/2019	5.19	No	118	0	n/a	0.0002807	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-17	7.96	5.13	9/18/2019	6.17	No	118	0	n/a	0.0002807	NP Inter (normality) 1 of 2

Interwell Prediction Limit All Results

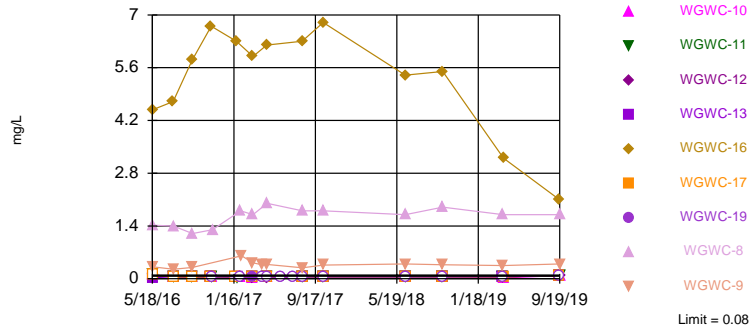
Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/20/2019, 10:54 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
pH (S.U.)	WGWC-19	7.96	5.13	9/18/2019	6.71	No	118	0	n/a	0.0002807	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-8	7.96	5.13	9/19/2019	5.39	No	118	0	n/a	0.0002807	NP Inter (normality) 1 of 2
pH (S.U.)	WGWC-9	7.96	5.13	9/19/2019	6.38	No	118	0	n/a	0.0002807	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-10	21	n/a	9/19/2019	2.1	No	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-11	21	n/a	9/19/2019	1.3	No	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-12	21	n/a	9/19/2019	14	No	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-13	21	n/a	9/18/2019	3.9	No	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-14A	21	n/a	9/18/2019	1.7	No	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-15	21	n/a	9/18/2019	37	Yes	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-16	21	n/a	9/18/2019	130	Yes	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-17	21	n/a	9/18/2019	7.3	No	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-19	21	n/a	9/18/2019	3.6	No	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-8	21	n/a	9/19/2019	190	Yes	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	WGWC-9	21	n/a	9/19/2019	42	Yes	103	25.24	n/a	0.0001836	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-10	150	n/a	9/19/2019	52	No	103	9.709	n/a	0.0001836	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-11	150	n/a	9/19/2019	27	No	103	9.709	n/a	0.0001836	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-12	150	n/a	9/19/2019	89	No	103	9.709	n/a	0.0001836	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-13	150	n/a	9/18/2019	110	No	103	9.709	n/a	0.0001836	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-14A	150	n/a	9/18/2019	33	No	103	9.709	n/a	0.0001836	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-15	150	n/a	9/18/2019	160	Yes	103	9.709	n/a	0.0001836	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-16	150	n/a	9/18/2019	520	Yes	103	9.709	n/a	0.0001836	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-17	150	n/a	9/18/2019	79	No	103	9.709	n/a	0.0001836	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-19	150	n/a	9/18/2019	96	No	103	9.709	n/a	0.0001836	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-8	150	n/a	9/19/2019	440	Yes	103	9.709	n/a	0.0001836	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	WGWC-9	150	n/a	9/19/2019	130	No	103	9.709	n/a	0.0001836	NP Inter (normality) 1 of 2

Exceeds Limit: WGWC-16, WGWC-8,
WGWC-9

Boron

Interwell Non-parametric



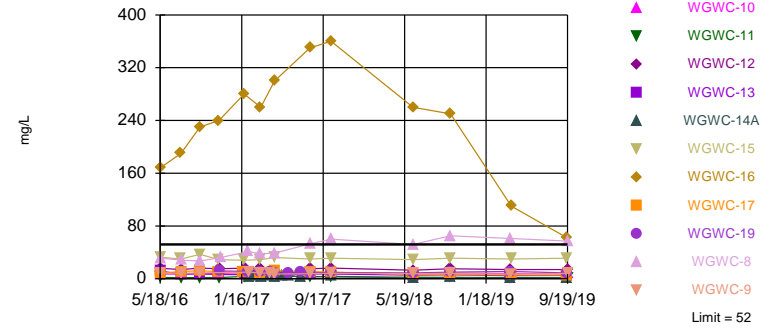
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 103) were censored; limit is most recent reporting limit. Annual per-constituent alpha = 0.004031. Individual comparison alpha = 0.0001836 (1 of 2). Comparing 9 points to limit. Assumes 2 future values.

Prediction Limit Analysis Run 11/20/2019 10:48 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-16, WGWC-8

Calcium

Interwell Non-parametric



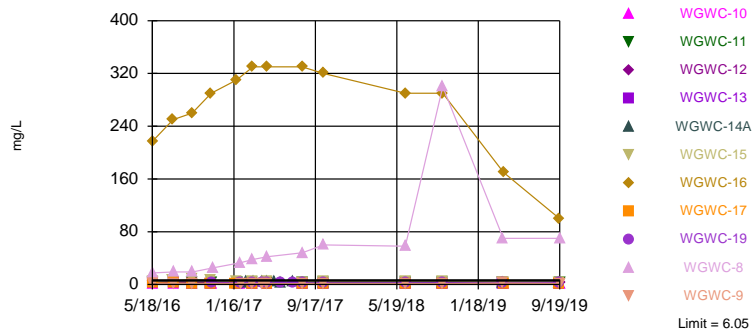
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 103 background values. Annual per-constituent alpha = 0.004031. Individual comparison alpha = 0.0001836 (1 of 2). Comparing 11 points to limit.

Prediction Limit Analysis Run 11/20/2019 10:48 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-16, WGWC-8

Chloride

Interwell Non-parametric



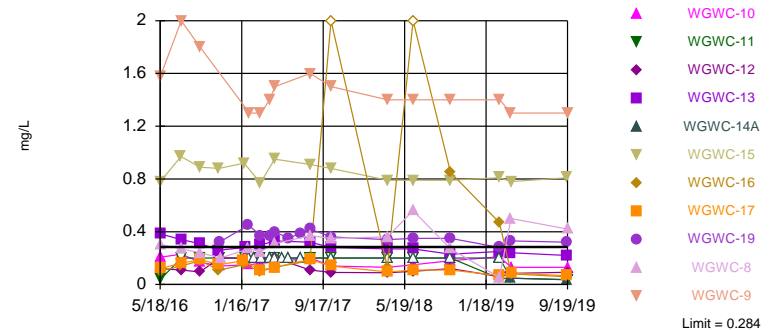
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 103 background values. Annual per-constituent alpha = 0.004031. Individual comparison alpha = 0.0001836 (1 of 2). Comparing 11 points to limit.

Prediction Limit Analysis Run 11/20/2019 10:48 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-15, WGWC-19,
WGWC-8, WGWC-9

Fluoride

Interwell Non-parametric

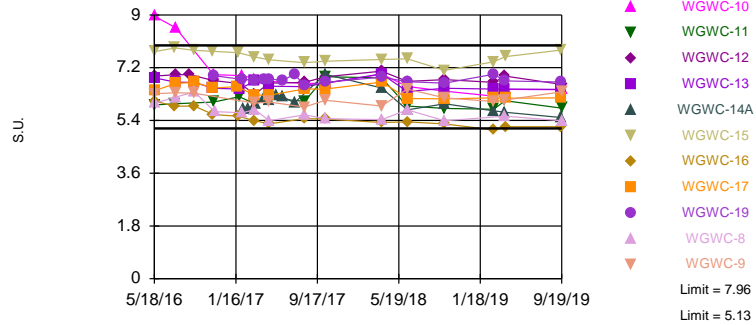


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 119 background values. 53.78% NDs. Annual per-constituent alpha = 0.00302. Individual comparison alpha = 0.0001375 (1 of 2). Comparing 11 points to limit.

Prediction Limit Analysis Run 11/20/2019 10:48 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Interwell Non-parametric

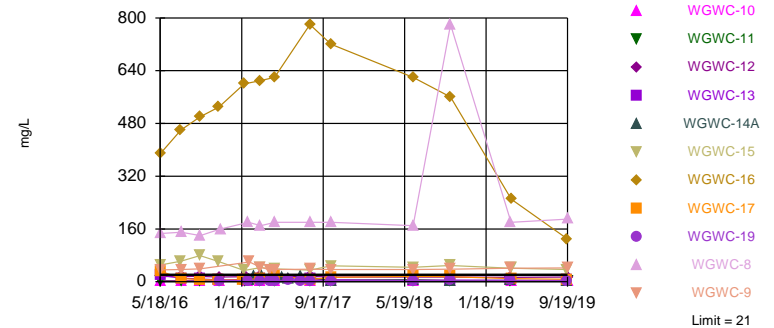


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 118 background values. Annual per-constituent alpha = 0.006166. Individual comparison alpha = 0.0002807 (1 of 2). Comparing 11 points to limit.

Prediction Limit Analysis Run 11/20/2019 10:48 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-15, WGWC-16, WGWC-8, WGWC-9

Sulfate
Interwell Non-parametric

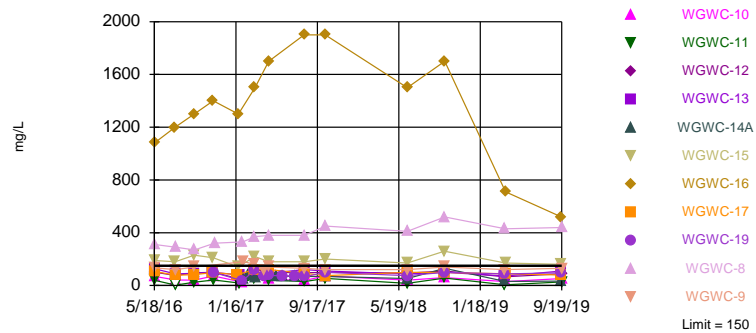


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 103 background values. 25.24% NDs. Annual per-constituent alpha = 0.004031. Individual comparison alpha = 0.0001836 (1 of 2). Comparing 11 points to limit.

Prediction Limit Analysis Run 11/20/2019 10:48 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-15, WGWC-16, WGWC-8

Total Dissolved Solids
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 103 background values. 9.709% NDs. Annual per-constituent alpha = 0.004031. Individual comparison alpha = 0.0001836 (1 of 2). Comparing 11 points to limit.

Prediction Limit Analysis Run 11/20/2019 10:48 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)	WGWC-17
5/17/2016	<0.1	<0.1	<0.1						
5/18/2016				<0.1	<0.1	<0.1	4.48	<0.1	<0.1
5/19/2016									
7/19/2016	<0.05	<0.05	<0.05		<0.05	<0.05	4.7	<0.05	
7/20/2016				<0.05					<0.05
9/13/2016	<0.05	<0.05	<0.05		<0.05	<0.05			
9/14/2016				<0.05			5.8	<0.05	<0.05
9/15/2016									
11/9/2016	<0.05	<0.05	<0.05			<0.05			
11/10/2016					<0.05		6.7		<0.05
11/11/2016				<0.05					
11/14/2016									
1/17/2017	<0.05	<0.05							
1/18/2017					<0.05	<0.05			
1/19/2017			<0.05					<0.05	
1/20/2017									<0.05
1/24/2017							6.3		
1/27/2017									
2/6/2017				<0.05					
2/9/2017									
3/13/2017	<0.05	<0.05							
3/14/2017			<0.05		<0.05	<0.05		<0.05	<0.05
3/15/2017				0.032 (J)			5.9		
4/11/2017									
4/24/2017	<0.05	<0.05							
4/25/2017			<0.05		<0.05	<0.05	6.2	<0.05	<0.05
4/26/2017				<0.05					
6/7/2017									
7/11/2017									
8/8/2017	<0.05	<0.05	<0.05		<0.05	<0.05			
8/9/2017							6.3	<0.05	<0.05
8/10/2017				<0.05					
10/10/2017	<0.05	<0.05							
10/11/2017			<0.05		<0.05	<0.05	6.8	<0.05	<0.05
10/12/2017				<0.05					
6/13/2018	<0.05		<0.05			<0.05		<0.05	
6/14/2018		<0.05		<0.05	<0.05		5.4		<0.05
9/24/2018		<0.05							
9/27/2018	<0.05								
9/28/2018			<0.05						
10/2/2018						<0.05			
10/3/2018					<0.05			<0.05	
10/4/2018				<0.05			5.5		<0.05
4/1/2019	<0.05	<0.05							
4/2/2019			<0.05		<0.05	<0.05		<0.05	
4/3/2019									
4/4/2019				0.024 (J)			3.2		0.049 (J)
9/16/2019	<0.08					<0.08		<0.08	
9/17/2019		<0.08	<0.08						
9/18/2019					<0.08		2.1		<0.08
9/19/2019				<0.08					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-12	WGWC-13	WGWC-8	WGWC-9	WGWC-11	WGWC-19
5/17/2016								
5/18/2016	<0.1	<0.1						
5/19/2016			<0.1	0.0252 (J)	1.42	0.314	<0.1	
7/19/2016								
7/20/2016	<0.05	<0.05	<0.05	<0.05	1.4	0.25	<0.05	
9/13/2016	<0.05	<0.05						
9/14/2016			<0.05	<0.05		0.3	<0.05	
9/15/2016					1.2			
11/9/2016								
11/10/2016	<0.05	<0.05		<0.05				
11/11/2016			<0.05				<0.05	<0.05
11/14/2016					1.3			
1/17/2017								
1/18/2017	<0.05	<0.05						
1/19/2017								
1/20/2017								
1/24/2017								
1/27/2017			0.047 (J)	0.033 (J)			0.021 (J)	
2/6/2017					1.8			<0.05
2/9/2017						0.61		
3/13/2017								
3/14/2017	<0.05	<0.05						
3/15/2017			0.024 (J)	<0.05	1.7	0.42	0.058	0.034 (J)
4/11/2017						0.37		<0.05
4/24/2017								
4/25/2017	<0.05	<0.05						
4/26/2017			<0.01	<0.05	2	0.38	<0.05	<0.05
6/7/2017								<0.05
7/11/2017								<0.05
8/8/2017		<0.05						
8/9/2017	<0.05			<0.05				
8/10/2017			<0.05		1.8	0.29	<0.05	<0.05
10/10/2017								
10/11/2017	<0.05	<0.05						
10/12/2017			<0.05	<0.05	1.8	0.36	<0.05	<0.05
6/13/2018								
6/14/2018	<0.05	<0.05	<0.05	<0.05	1.7	0.39	<0.05	<0.05
9/24/2018								
9/27/2018								
9/28/2018								
10/2/2018								
10/3/2018	<0.05	<0.05						
10/4/2018			<0.05	<0.05	1.9	0.37	<0.05	<0.05
4/1/2019								
4/2/2019	<0.05	<0.05						<0.05
4/3/2019			<0.05	<0.05	1.7	0.35	<0.05	
4/4/2019								
9/16/2019								
9/17/2019	<0.08							
9/18/2019		<0.08		<0.08				<0.08
9/19/2019			<0.08		1.7	0.39	<0.08	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	0.927	23.7	12.2						
5/18/2016				7.17	1.36	32.5	27	168	1.7
5/19/2016									
7/19/2016	1	23	13		0.88	30	23	190	1.5
7/20/2016				7					
9/13/2016	0.44	23	13		0.93		25		
9/14/2016				7.7		37		230	52
9/15/2016									
11/9/2016	1.1	6.7	19				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	24	18		4.8		26		
8/9/2017						30		350	1.3
8/10/2017				8.1					
10/10/2017	1.2		21						
10/11/2017		23			0.93	31	29	360	1.5
10/12/2017				8.6					
6/13/2018	1.1	11					25		1.2
6/14/2018			12	7.7	0.94	29		260	
9/24/2018			11						
9/27/2018	1.2								
9/28/2018		11							
10/2/2018							26		
10/3/2018					1.2	31			1.4
10/4/2018				8.5				250	
4/1/2019	1		12						
4/2/2019		20			1.1		25		1.1
4/3/2019									
4/4/2019				7.9		30		110	
9/16/2019	1.3						25		36

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
9/17/2019		10	13						
9/18/2019					1.5	31		62	
9/19/2019				7.5					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
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	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
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 11/20/2019 10:54 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019

9/18/2019

9/19/2019

0.85

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	3.8	6.05	2.5						
5/18/2016				1.45	2.06	4.59	1.58	217	2.14
5/19/2016									
7/19/2016	3.9	4	2.6		2.1	5.9	1.6	250	2.4
7/20/2016				1.6					
9/13/2016	3.6	3.1	2.4		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	2.3		1.9		1.4		
8/9/2017						3.6		330	1.9
8/10/2017				1.4					
10/10/2017	3.6		2.5						
10/11/2017		1.9			1.8	5	1.3	320	2.1
10/12/2017				1.3					
6/13/2018	3.8	2					1.4		1.7
6/14/2018			2.3	1.3	1.7	4.3		290	
9/24/2018			2.4						
9/27/2018	4								
9/28/2018		2.1							
10/2/2018							1.4		
10/3/2018					1.8	4.8			1.8
10/4/2018				1.3				290	
4/1/2019	4		2.4						
4/2/2019		2.6			1.9		1.5		1.7
4/3/2019									
4/4/2019				1.4		3.7		170	
9/16/2019	4						1.5		1.8

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
9/17/2019		2	2.4						
9/18/2019					2	3.2		100	
9/19/2019				1.5					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
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	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
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 11/20/2019 10:54 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019

9/18/2019

9/19/2019

2.2

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL

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	<0.2	<0.2	0.21		<0.2	0.97	0.11 (J)	0.14 (J)	<0.2
7/20/2016				0.23					
9/13/2016	<0.2	<0.2	0.15 (J)		<0.2		0.11 (J)		
9/14/2016				0.17 (J)		0.89		0.18 (J)	0.095 (J)
9/15/2016									
11/9/2016	<0.2	0.085 (J)	<0.2				0.1 (J)		
11/10/2016					<0.2	0.88		0.11 (J)	
11/11/2016				0.14 (J)					
11/14/2016									
1/17/2017	<0.2	<0.2							
1/18/2017					<0.2		0.11 (J)		
1/19/2017			0.087 (J)						<0.2
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	<0.2	<0.2							
3/14/2017			<0.2		<0.2	0.77	<0.2		<0.2
3/15/2017				0.16 (J)				0.1 (J)	
3/17/2017									
4/11/2017									
4/24/2017	<0.2	<0.2							
4/25/2017			<0.2		<0.2	0.95	<0.2	0.13 (J)	<0.2
4/26/2017				0.17 (J)					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.2	<0.2	0.087 (J)		<0.2		0.099 (J)		
8/9/2017						0.91		0.18 (J)	<0.2
8/10/2017				0.2					
10/10/2017	<0.2	0.18 (J)							
10/11/2017			0.09 (J)		<0.2	0.88	0.098 (J)	<2	<0.2
10/12/2017				0.14 (J)					
3/27/2018	<0.2	<0.2							
3/28/2018			0.11 (J)		<0.2		0.088 (J)		<0.2
3/29/2018								0.13 (J)	
3/30/2018				0.13 (J)		0.79			
6/13/2018	<0.2		0.085 (J)				0.093 (J)		<0.2
6/14/2018		<0.2		0.15 (J)	<0.2	0.79		<2	
9/24/2018		<0.2							
9/27/2018	<0.2								
9/28/2018			0.082 (J)						
10/2/2018							0.13 (J)		
10/3/2018					<0.2	0.79			<0.2
10/4/2018				0.18 (J)				0.85 (J)	
2/25/2019	<0.2	0.032 (J)							

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
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		<0.2		0.074 (J)		<0.2
2/27/2019				0.21		0.81		0.47	
2/28/2019									
4/1/2019	<0.2	0.061 (J)							
4/2/2019			0.21		<0.2		0.09 (J)		<0.2
4/3/2019									
4/4/2019				0.13 (J)		0.78		0.08 (J)	
9/16/2019	0.03 (J)						0.1 (J)		<0.2
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)					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
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)	<0.2						
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)	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
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	<0.2
2/9/2017	
2/23/2017	<0.2
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	<0.2
4/11/2017	<0.2
4/24/2017	
4/25/2017	
4/26/2017	<0.2
5/17/2017	<0.2
6/7/2017	<0.2
7/11/2017	<0.2
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	<0.2
10/12/2017	
3/27/2018	
3/28/2018	
3/29/2018	<0.2
3/30/2018	
6/13/2018	
6/14/2018	<0.2
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	<0.2
2/25/2019	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

2/26/2019	
2/27/2019	<0.2
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	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/20/2019 10:54 AM View: Interwell PL

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 11/20/2019 10:54 AM View: Interwell PL
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					

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/20/2019 10:54 AM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-11	WGWC-13	WGWC-8	WGWC-12	WGWC-9	WGWC-19
5/17/2016									
5/18/2016	6.41	7.23	5.55						
5/19/2016				5.93	6.85	5.99	6.91	6.31	
7/18/2016				5.9661					
7/19/2016									
7/20/2016	6.662463	7.281557	5.656628		6.705264	6.194334	6.962608	6.345061	
9/1/2016							6.96		
9/13/2016		7.15	5.63						
9/14/2016	6.7				6.7			6.33	
9/15/2016						6.38			
11/9/2016									
11/10/2016	6.51	6.33	5.61		6.5				
11/11/2016				6.03			6.76		6.93
11/14/2016						5.7			
1/17/2017									
1/18/2017		6.94	5.81						
1/19/2017									
1/20/2017	6.55								
1/24/2017									
1/27/2017				6.21	6.47		6.66		
2/6/2017						5.66			6.8
2/8/2017									
2/23/2017									
3/13/2017									
3/14/2017	6.27	6.75	5.53						
3/15/2017				5.97	6.75	5.77	6.3	5.99	6.78
3/17/2017									
4/11/2017									6.79
4/24/2017									
4/25/2017	6.26	6.84	5.59						
4/26/2017				6.17	6.57	5.39	6.67	6.03	6.82
5/17/2017									
6/7/2017									6.76
7/11/2017									6.99
8/8/2017			5.52						
8/9/2017	6.47	6.67			6.55				
8/10/2017				6.05		5.59	6.7	5.86	6.59
8/25/2017									
10/10/2017									
10/11/2017	6.47	6.75	5.51						
10/12/2017				6.89	6.67	5.46	6.89	6.09	6.7
3/27/2018									
3/28/2018		6.79	5.6						
3/29/2018				6.85	6.99	5.43	7.08	5.89	6.88
3/30/2018	6.71								
6/13/2018									
6/14/2018	6.15	6.67	5.58	5.89	6.39	5.76	6.73	6.47	6.72
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018		6.92	5.45						

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-11	WGWC-13	WGWC-8	WGWC-12	WGWC-9	WGWC-19
10/4/2018	6.14			5.81	6.5	5.39	6.79	6.17	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	6.91	6.1	
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	6.63	6.38	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
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 11/20/2019 10:54 AM View: Interwell PL
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	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	<1	19.9	1.14						
5/18/2016				2.84	0.368 (J)	50.7	8.88	388	0.955 (J)
5/19/2016									
7/19/2016	<1	14	1.4		<1	62	9	460	0.76 (J)
7/20/2016				2.8					
9/13/2016	<1	11	1.1		<1		8.5		
9/14/2016				2.8		79		500	3.4
9/15/2016									
11/9/2016	<1	6.3	1.1				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	12	1.1		<1		8.5		
8/9/2017						35		780	0.75 (J)
8/10/2017				2.2					
10/10/2017	<1		1.3						
10/11/2017		11			<1	48	8.3	720	<1
10/12/2017				1.9					
6/13/2018	<1	8.2					8.3		<1
6/14/2018			0.84 (J)	2	<1	44		620	
9/24/2018			0.79 (J)						
9/27/2018	<1								
9/28/2018		7.6							
10/2/2018							8.3		
10/3/2018					<1	49			<1
10/4/2018				1.9				560	
4/1/2019	<1		1						
4/2/2019		11			0.4 (J)		8.5		0.94 (J)
4/3/2019									
4/4/2019				2.2		41		250	
9/16/2019	0.49 (J)						8.9		2.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
9/17/2019		8	1.3						
9/18/2019					<1	37		130	
9/19/2019				2.1					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
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	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
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 11/20/2019 10:54 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019

9/18/2019

9/19/2019

1.7

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
5/17/2016	<25	112	100						
5/18/2016				70	31	190	113	1080	33
5/19/2016									
7/19/2016	14	80	84		<5	180	92	1200	<5
7/20/2016				42					
9/13/2016	50	120	70		<5		100		
9/14/2016				40		230		1300	150
9/15/2016									
11/9/2016	22	76	110				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	<5		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	<5	72	62		<5		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		<5
6/14/2018			80	40	14	170		1500	
9/24/2018			76						
9/27/2018	28								
9/28/2018		68							
10/2/2018							130		
10/3/2018					6	260			24
10/4/2018				60				1700	
4/1/2019	<10		63						
4/2/2019		100			15		110		25
4/3/2019									
4/4/2019				30		170		710	
9/16/2019	27						110		41

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWA-5 (bg)
9/17/2019		76	120						
9/18/2019					35	160		520	
9/19/2019				52					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
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	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/20/2019 10:54 AM View: Interwell PL
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 11/20/2019 10:54 AM View: Interwell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019

9/18/2019

9/19/2019

33

Confidence Interval Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/14/2019, 2:15 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	WGWC-19	0.056	0.045	0.04	Yes	14	0	No	0.01	NP (normality)

Confidence Interval All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/14/2019, 2:15 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	14	78.57	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	14	85.71	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	14	85.71	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.0015	0.00053	0.01	No	14	50	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0019	0.00095	0.01	No	14	50	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-15	0.002478	0.001714	0.01	No	14	0	sqrt(x)	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.001471	0.0007832	0.01	No	14	28.57	No	0.01	Param.
Arsenic (mg/L)	WGWC-17	0.001	0.00076	0.01	No	14	57.14	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-19	0.001	0.001	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-8	0.0015	0.00055	0.01	No	14	71.43	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	14	78.57	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.04079	0.03687	2	No	14	0	x^4	0.01	Param.
Barium (mg/L)	WGWC-11	0.03574	0.02997	2	No	14	0	No	0.01	Param.
Barium (mg/L)	WGWC-12	0.0209	0.0151	2	No	14	0	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05704	0.04598	2	No	14	0	x^2	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04774	0.03041	2	No	14	0	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02252	0.019	2	No	14	0	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.069	0.032	2	No	14	0	No	0.01	NP (normality)
Barium (mg/L)	WGWC-17	0.01924	0.0136	2	No	14	0	No	0.01	Param.
Barium (mg/L)	WGWC-19	0.0022	0.0011	2	No	14	14.29	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.003088	0.001192	2	No	14	14.29	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-9	0.005	0.0007	2	No	14	28.57	No	0.01	NP (Cohens/xfrm)
Beryllium (mg/L)	WGWC-10	0.001	0.001	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-11	0.001	0.001	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-12	0.001	0.001	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-13	0.001	0.001	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-14A	0.001	0.00032	0.004	No	14	85.71	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-15	0.001	0.001	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.001	0.00022	0.004	No	14	92.86	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-17	0.001	0.001	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-19	0.001	0.001	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.001848	0.001373	0.004	No	14	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.001	0.00036	0.004	No	14	64.29	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.001	0.00021	0.005	No	14	92.86	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-11	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-12	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-13	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-14A	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-15	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.0007674	0.0004372	0.005	No	14	14.29	No	0.01	Param.
Cadmium (mg/L)	WGWC-17	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-19	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-8	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-9	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-10	0.002445	0.001512	0.1	No	14	14.29	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0012	0.1	No	14	78.57	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-12	0.002	0.002	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0018	0.1	No	14	92.86	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.002	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	14	92.86	No	0.01	NP (NDs)

Confidence Interval All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/14/2019, 2:15 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Chromium (mg/L)	WGWC-16	0.002	0.002	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-17	0.002	0.002	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-19	0.002	0.002	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-8	0.002	0.002	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	14	92.86	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001754	0.0007057	0.013	No	14	7.143	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0011	0.00049	0.013	No	14	42.86	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001316	0.0004835	0.013	No	14	7.143	No	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.00054	0.0004	0.013	No	14	71.43	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-14A	0.01241	0.006817	0.013	No	14	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0005	0.0005	0.013	No	14	100	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.01343	0.005019	0.013	No	14	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-17	0.001847	0.0007889	0.013	No	14	7.143	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.00058	0.00045	0.013	No	14	64.29	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0019	0.0005	0.013	No	14	64.29	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.00073	0.0005	0.013	No	14	92.86	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4917	0.1249	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.5797	0.06523	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.6709	0.09968	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.8304	0.446	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.9346	0.5056	10.4	No	14	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.751	0.2732	10.4	No	14	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	2.318	1.017	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.6068	0.01542	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.4594	0.1249	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.985	1.132	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4117	0.1599	10.4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-10	0.1884	0.1444	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.2	0.047	4	No	15	73.33	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-12	0.2	0.089	4	No	15	26.67	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-13	0.3162	0.255	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.2	0.048	4	No	15	86.67	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.92	0.78	4	No	15	0	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-16	0.2484	0.1003	4	No	15	13.33	ln(x)	0.01	Param.
Fluoride (mg/L)	WGWC-17	0.1548	0.09951	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.389	0.331	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.398	0.2324	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.6	1.3	4	No	15	0	No	0.01	NP (normality)
Lead (mg/L)	WGWC-10	0.001	0.00041	0.015	No	12	83.33	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	12	91.67	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-12	0.001	0.001	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00047	0.015	No	12	58.33	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.001	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.001	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	12	91.67	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	12	91.67	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-19	0.001	0.001	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00017	0.015	No	12	91.67	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	12	91.67	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.019	0.008869	0.04	No	14	0	No	0.01	Param.

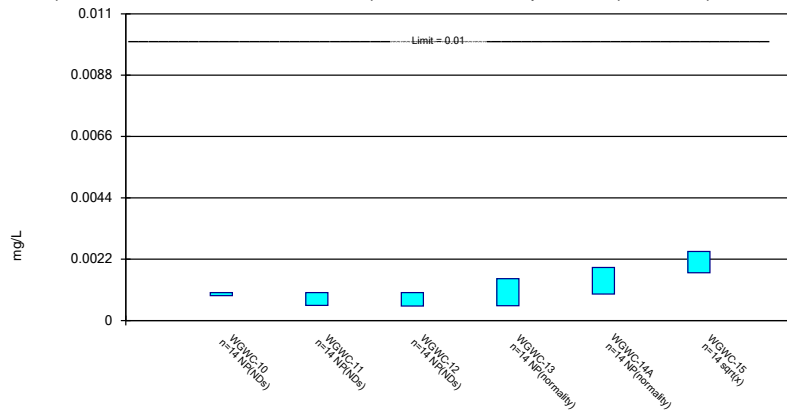
Confidence Interval All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/14/2019, 2:15 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	14	78.57	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007872	0.005576	0.04	No	14	7.143	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0025	0.04	No	14	71.43	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-14A	0.005	0.0018	0.04	No	14	57.14	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-15	0.006549	0.005037	0.04	No	14	14.29	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01195	0.007768	0.04	No	14	7.143	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005885	0.004602	0.04	No	14	7.143	ln(x)	0.01	Param.
Lithium (mg/L)	WGWC-19	0.056	0.045	0.04	Yes	14	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.0215	0.012	0.04	No	14	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03971	0.03193	0.04	No	14	0	No	0.01	Param.
Molybdenum (mg/L)	WGWC-10	0.005	0.00093	0.1	No	14	85.71	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.005	0.0011	0.1	No	14	92.86	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.005	0.0009	0.1	No	14	64.29	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0018	0.1	No	14	14.29	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.005	0.001	0.1	No	14	92.86	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.007885	0.004194	0.1	No	14	0	ln(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-16	0.005	0.005	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-17	0.006841	0.003017	0.1	No	14	0	No	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.005	0.0012	0.1	No	14	50	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-8	0.005	0.005	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-9	0.007542	0.003858	0.1	No	14	0	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	14	92.86	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	14	92.86	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	14	92.86	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-13	0.005	0.005	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	14	92.86	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	14	92.86	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01292	0.007811	0.05	No	14	0	No	0.01	Param.
Selenium (mg/L)	WGWC-17	0.005	0.005	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	14	92.86	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0035	0.003	0.05	No	14	0	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002541	0.001999	0.05	No	14	0	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	14	92.86	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-12	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-13	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00012	0.002	No	14	50	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-15	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-16	0.00024	0.000095	0.002	No	14	14.29	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-17	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-19	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-8	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-9	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

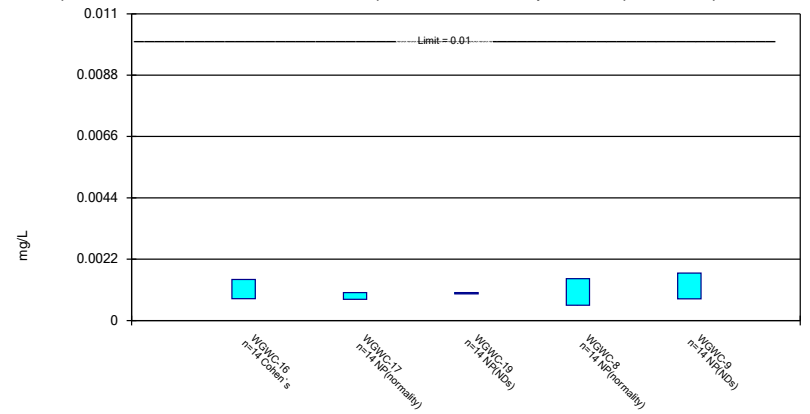
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/14/2019 2:11 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

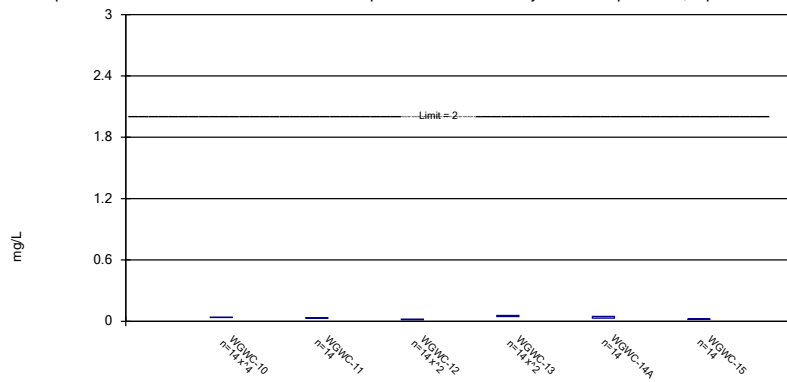
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Constituent: Arsenic Analysis Run 11/14/2019 2:11 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

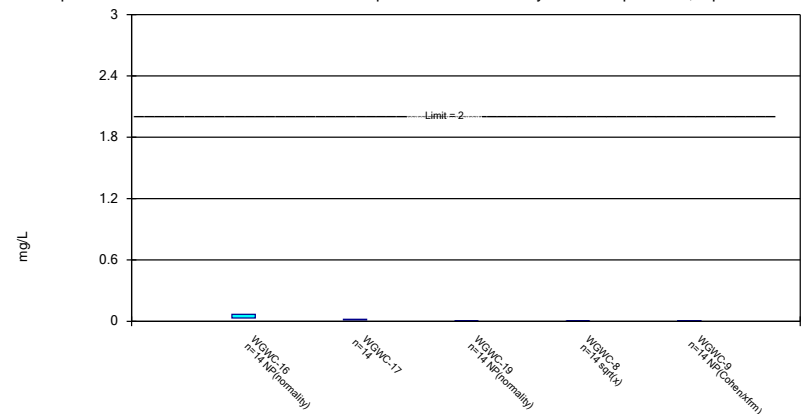
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Constituent: Barium Analysis Run 11/14/2019 2:11 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

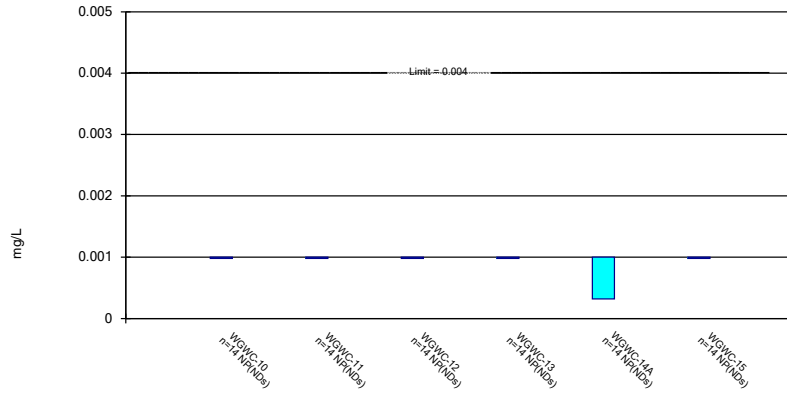
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Constituent: Barium Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

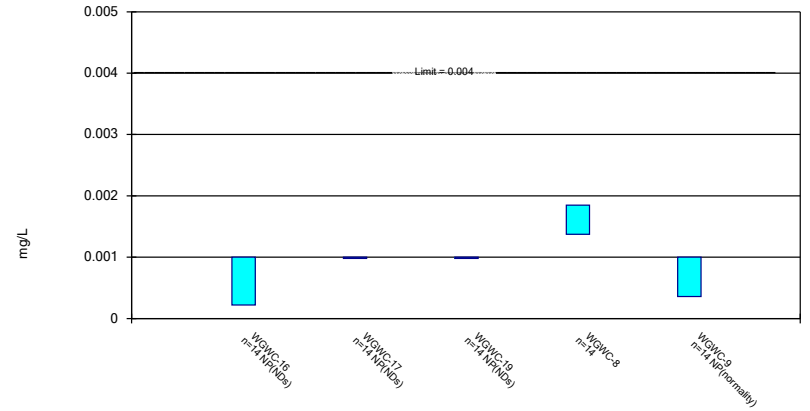
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

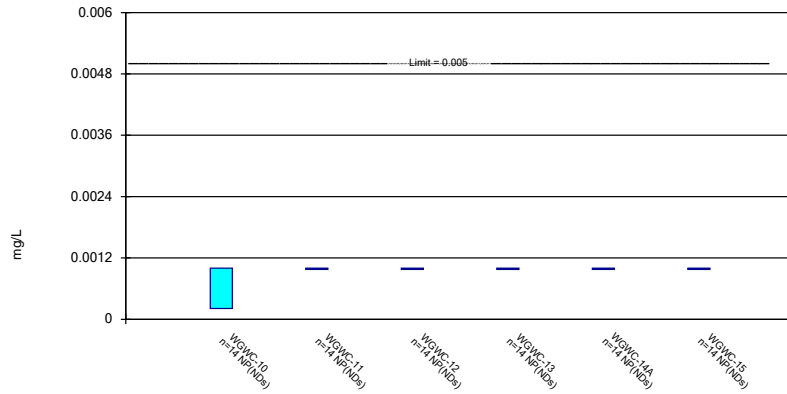
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Constituent: Beryllium Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

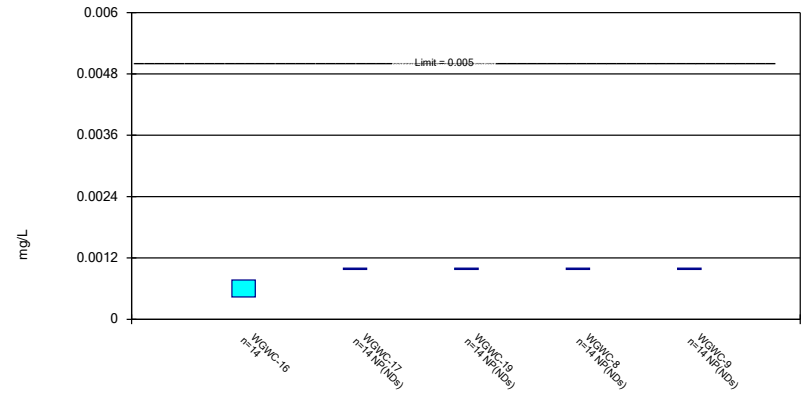
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

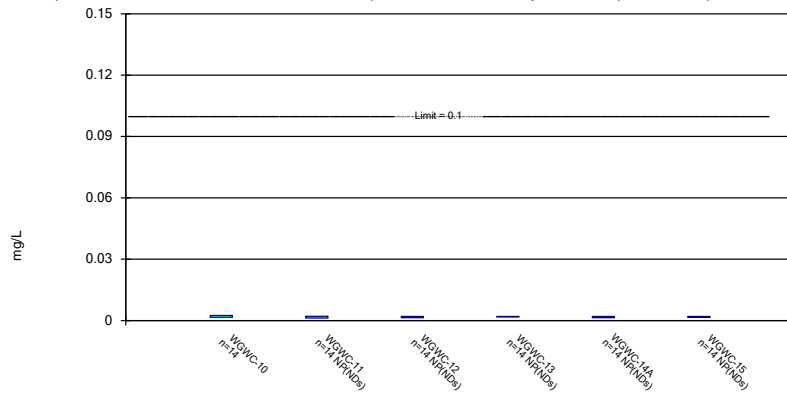
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

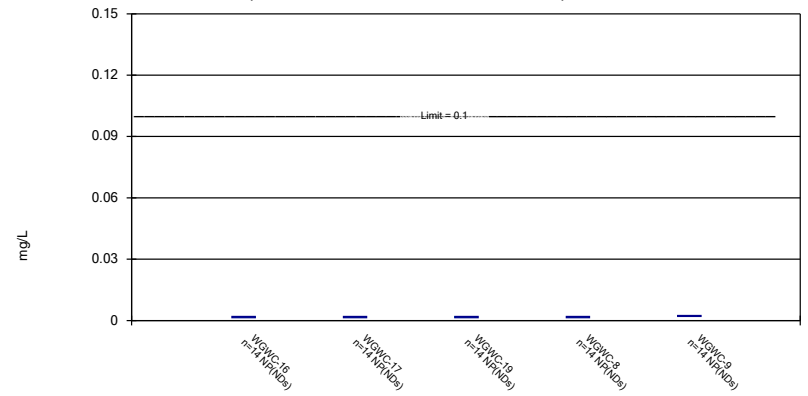
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

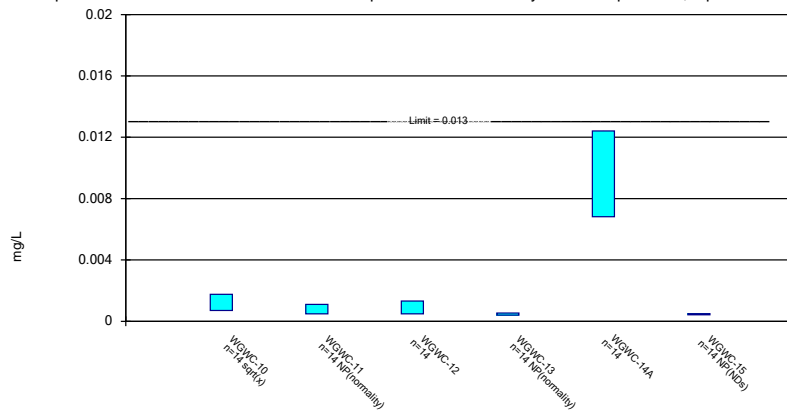
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

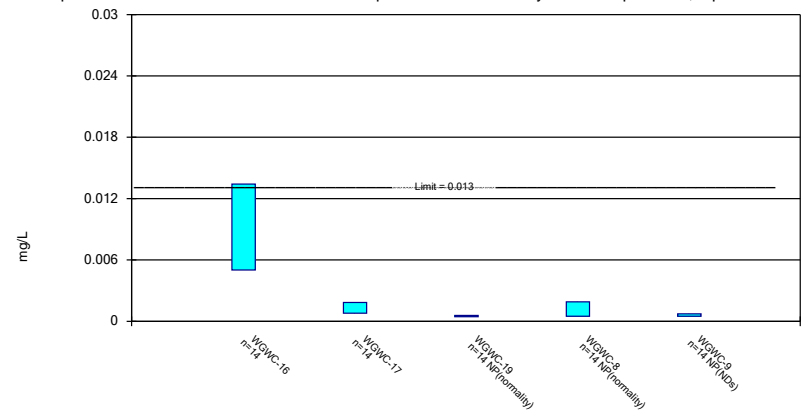
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

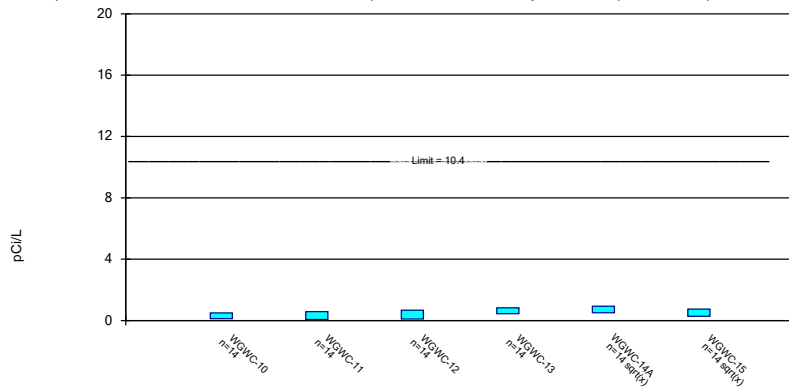
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

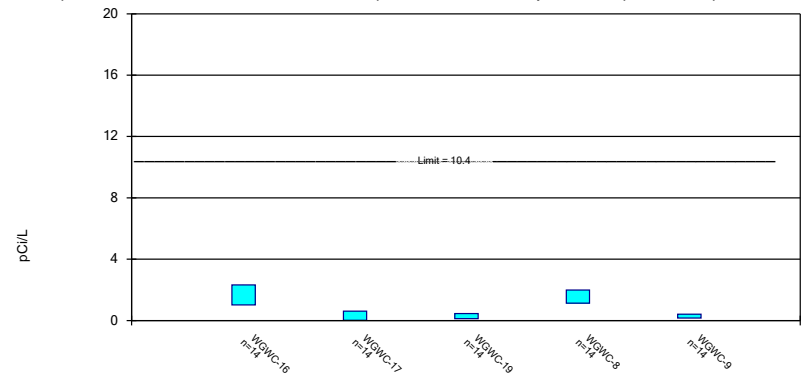
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

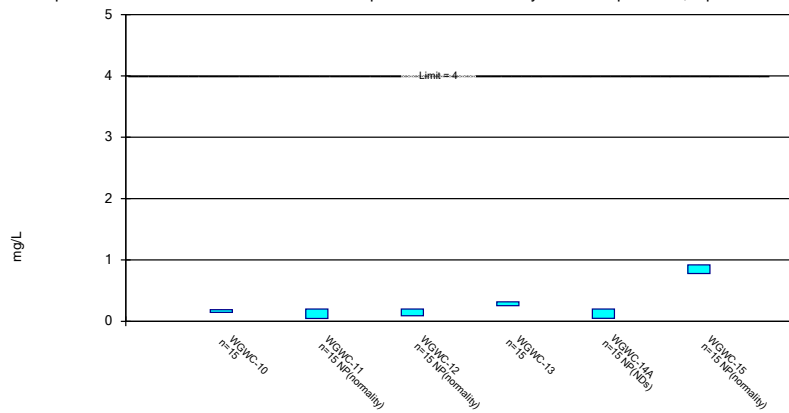
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

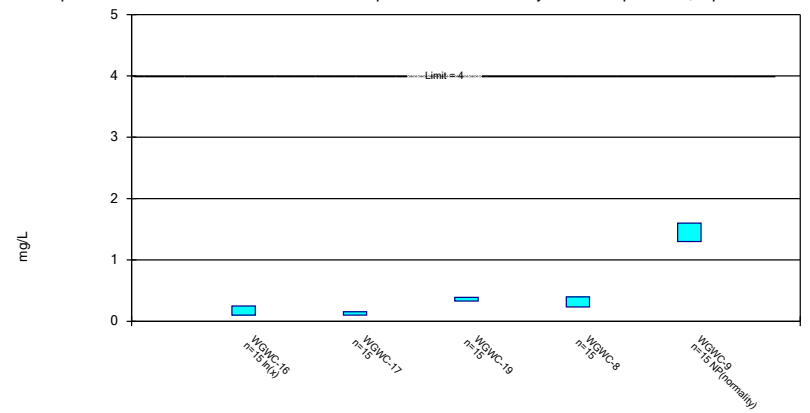
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

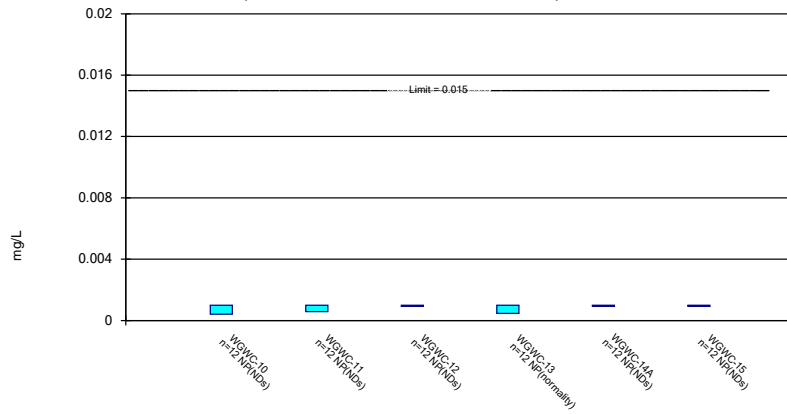
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

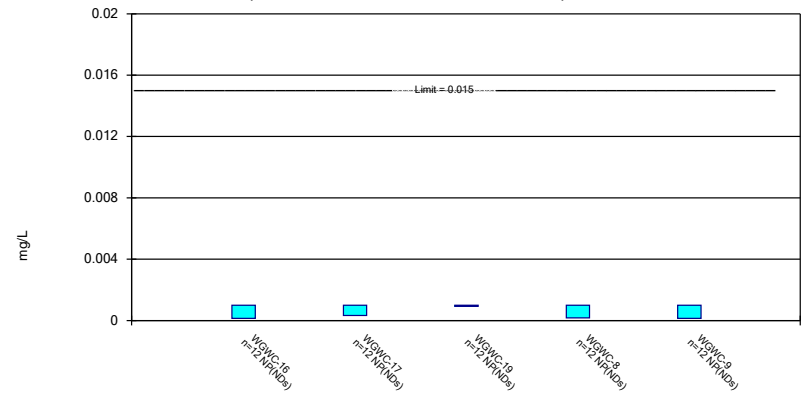
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

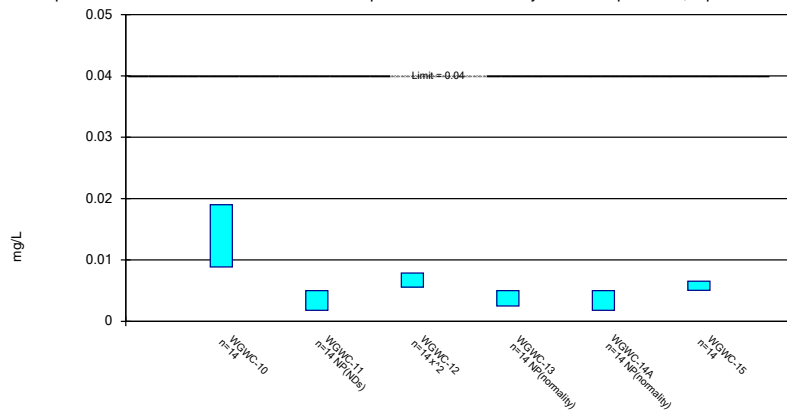
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

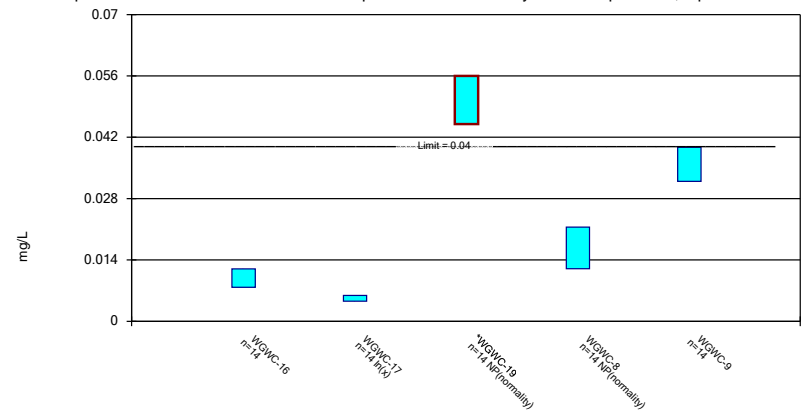
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

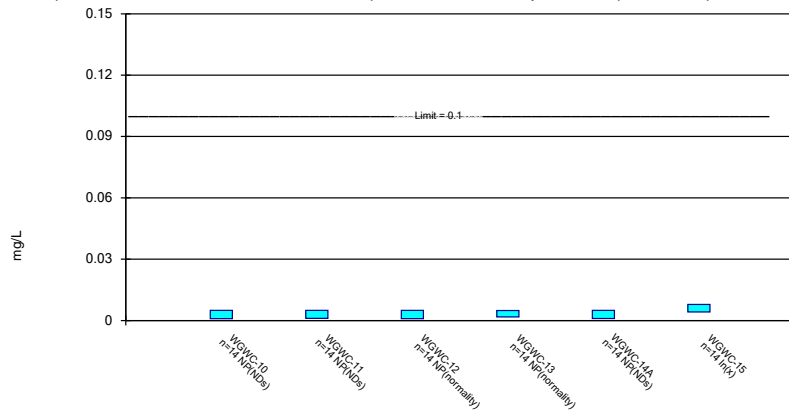
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

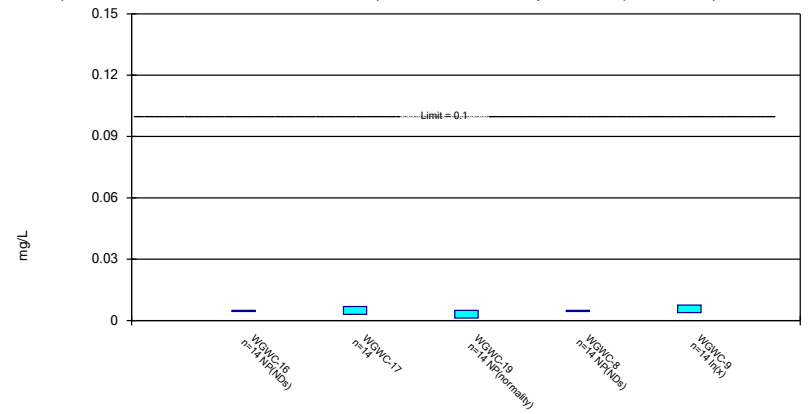
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

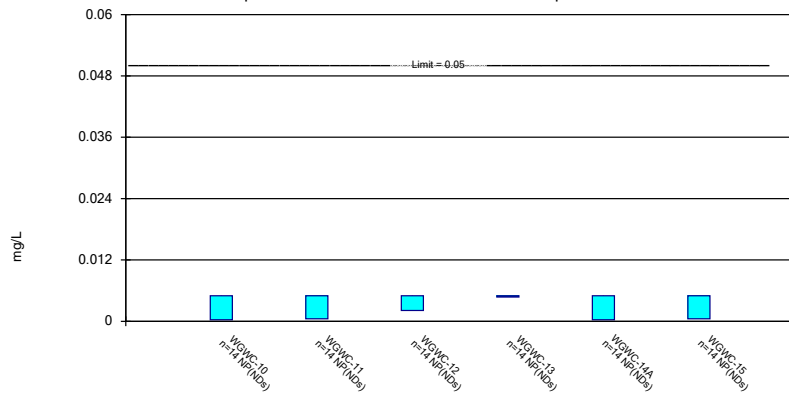
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

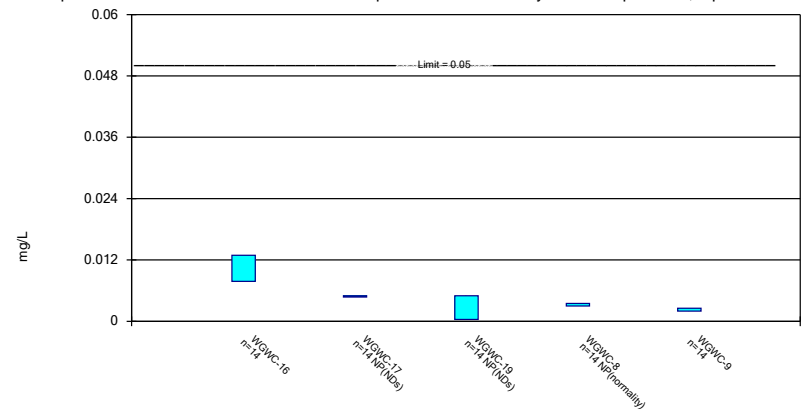
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

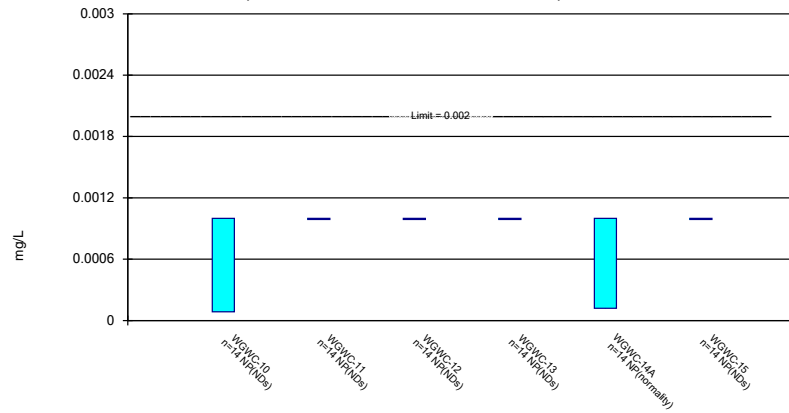
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

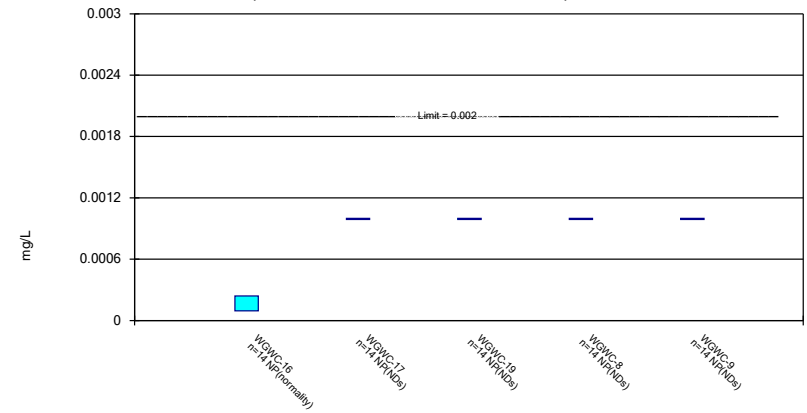
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/14/2019 2:12 PM View: Confidence Interval
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 11/14/2019 2:12 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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			
Mean	0.0009121	0.0009293	0.0009286	0.00086	0.001346	0.002111
Std. Dev.	0.0002035	0.0001803	0.0001817	0.0003048	0.0006789	0.0005738
Upper Lim.	0.001	0.001	0.001	0.0015	0.0019	0.002478
Lower Lim.	0.00089	0.00054	0.00052	0.00053	0.00095	0.001714

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	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)			
11/11/2016			<0.001		
11/14/2016				<0.001	
1/20/2017		<0.001			
1/24/2017	0.0015				
2/6/2017			<0.001	<0.001	
2/9/2017					0.0017
3/14/2017		<0.001			
3/15/2017	0.0014		<0.001	<0.001	0.00047 (J)
4/11/2017			<0.001		<0.001
4/25/2017	0.0014	0.00095 (J)			
4/26/2017			<0.001	<0.001	<0.001
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017	0.0013	<0.001			
8/10/2017			<0.001	<0.001	<0.001
3/29/2018	0.0014		<0.001	<0.001	<0.001
3/30/2018		<0.001			
6/14/2018	<0.001	0.00076 (J)	<0.001	<0.001	<0.001
10/4/2018	0.0013	0.00088 (J)	<0.001	0.0015	<0.001
2/26/2019		0.0005 (J)			
2/27/2019	0.00046 (J)			0.00047 (J)	
2/28/2019			<0.001		<0.001
4/2/2019			<0.001		
4/3/2019				<0.001	<0.001
4/4/2019	<0.001	<0.001			
9/18/2019	<0.001	<0.001	<0.001		
9/19/2019				0.00032 (J)	<0.001
Mean	0.001226	0.0008921	0.001	0.0009171	0.0009964
Std. Dev.	0.0003791	0.0001688	0	0.0002908	0.000251
Upper Lim.	0.001471	0.001	0.001	0.0015	0.0017
Lower Lim.	0.0007832	0.00076	0.001	0.00055	0.00078

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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			
Mean	0.03858	0.03286	0.0176	0.05121	0.03907	0.02076
Std. Dev.	0.003547	0.004074	0.004933	0.008097	0.01223	0.002486
Upper Lim.	0.04079	0.03574	0.0209	0.05704	0.04774	0.02252
Lower Lim.	0.03687	0.02997	0.0151	0.04598	0.03041	0.019

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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)
Mean	0.05454	0.01642	0.001912	0.002234	0.002238
Std. Dev.	0.01636	0.003984	0.001343	0.001474	0.001879
Upper Lim.	0.069	0.01924	0.0022	0.003088	0.005
Lower Lim.	0.032	0.0136	0.0011	0.001192	0.0007

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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					<0.001
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						<0.001
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	<0.001		<0.001
11/10/2016				<0.001		<0.001
11/11/2016	<0.001	<0.001	<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
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
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	
8/9/2017				<0.001		<0.001
8/10/2017	<0.001	<0.001	<0.001			
3/29/2018		<0.001	<0.001	<0.001	<0.001	
3/30/2018	<0.001					<0.001
6/14/2018	<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	
2/27/2019	<0.001	<0.001	<0.001	<0.001	0.00017 (J)	<0.001
4/3/2019		<0.001	<0.001	<0.001	<0.001	
4/4/2019	<0.001					<0.001
9/18/2019				<0.001	0.00032 (J)	<0.001
9/19/2019	<0.001	<0.001	<0.001			
Mean	0.001	0.001	0.001	0.001	0.0008921	0.001
Std. Dev.	0	0	0	0	0.0002757	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.001	0.001	0.001	0.001	0.00032	0.001

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.001	<0.001			
5/19/2016				0.00102 (J)	<0.001
7/19/2016	<0.001				
7/20/2016		<0.001		0.0014 (J)	<0.001
9/14/2016	<0.001	<0.001			<0.001
9/15/2016				0.00093 (J)	
11/10/2016	<0.001	<0.001			
11/11/2016			<0.001		
11/14/2016				0.0014 (J)	
1/20/2017		<0.001			
1/24/2017	<0.001				
2/6/2017			<0.001	0.0017 (J)	
2/9/2017					0.00041 (J)
3/14/2017		<0.001			
3/15/2017	<0.001		<0.001	0.0016 (J)	<0.001
4/11/2017			<0.001		<0.001
4/25/2017	<0.001	<0.001			
4/26/2017			<0.001	0.0017 (J)	<0.001
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017	<0.001	<0.001			
8/10/2017			<0.001	0.0017 (J)	0.00034 (J)
3/29/2018	<0.001		<0.001	0.0018 (J)	<0.001
3/30/2018		<0.001			
6/14/2018	<0.001	<0.001	<0.001	0.0015 (J)	<0.001
10/4/2018	<0.001	<0.001	<0.001	0.0019 (J)	0.00036 (J)
2/26/2019		<0.001			
2/27/2019	0.00022 (J)			0.0021 (J)	
2/28/2019			<0.001		0.00031 (J)
4/2/2019			<0.001		
4/3/2019				0.0019 (J)	<0.001
4/4/2019	<0.001	<0.001			
9/18/2019	<0.001	<0.001	<0.001		
9/19/2019				0.0019	0.00041 (J)
Mean	0.0009443	0.001	0.001	0.001611	0.0007736
Std. Dev.	0.0002085	0	0	0.0003355	0.0003162
Upper Lim.	0.001	0.001	0.001	0.001848	0.001
Lower Lim.	0.00022	0.001	0.001	0.001373	0.00036

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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					<0.001
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						<0.001
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	<0.001		<0.001
11/10/2016				<0.001		<0.001
11/11/2016	<0.001	<0.001	<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
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
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	
8/9/2017				<0.001		<0.001
8/10/2017	<0.001	<0.001	<0.001			
3/29/2018		<0.001	<0.001	<0.001	<0.001	
3/30/2018	<0.001					<0.001
6/14/2018	<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	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/3/2019		<0.001	<0.001	<0.001	<0.001	
4/4/2019	<0.001					<0.001
9/18/2019				<0.001	<0.001	<0.001
9/19/2019	0.00021 (J)	<0.001	<0.001			
Mean	0.0009436	0.001	0.001	0.001	0.001	0.001
Std. Dev.	0.0002111	0	0	0	0	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00021	0.001	0.001	0.001	0.001	0.001

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.000362 (J)	<0.001			
5/19/2016				<0.001	<0.001
7/19/2016	<0.001				
7/20/2016		<0.001		<0.001	<0.001
9/14/2016	0.00037 (J)	<0.001			<0.001
9/15/2016				<0.001	
11/10/2016	<0.001	<0.001			
11/11/2016			<0.001		
11/14/2016				<0.001	
1/20/2017		<0.001			
1/24/2017	0.00055 (J)				
2/6/2017			<0.001	<0.001	
2/9/2017					<0.001
3/14/2017		<0.001			
3/15/2017	0.00067 (J)		<0.001	<0.001	<0.001
4/11/2017			<0.001		<0.001
4/25/2017	0.00058 (J)	<0.001			
4/26/2017			<0.001	<0.001	<0.001
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017	0.00054 (J)	<0.001			
8/10/2017			<0.001	<0.001	<0.001
3/29/2018	0.00082 (J)		<0.001	<0.001	<0.001
3/30/2018		<0.001			
6/14/2018	0.0007 (J)	<0.001	<0.001	<0.001	<0.001
10/4/2018	0.00065 (J)	<0.001	<0.001	<0.001	<0.001
2/26/2019		<0.001			
2/27/2019	0.00055 (J)			<0.001	
2/28/2019			<0.001		<0.001
4/2/2019			<0.001		
4/3/2019				<0.001	<0.001
4/4/2019	0.00047 (J)	<0.001			
9/18/2019	0.00017 (J)	<0.001	<0.001		
9/19/2019				<0.001	<0.001
Mean	0.0006023	0.001	0.001	0.001	0.001
Std. Dev.	0.0002331	0	0	0	0
Upper Lim.	0.0007674	0.001	0.001	0.001	0.001
Lower Lim.	0.0004372	0.001	0.001	0.001	0.001

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.002					<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	<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
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
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)	<0.002	0.0018 (J)	<0.002	0.0015 (J)
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			
Mean	0.001979	0.001886	0.002	0.001986	0.002	0.001964
Std. Dev.	0.0006589	0.0003134	0	5.345E-05	0	0.0001336
Upper Lim.	0.002445	0.0021	0.002	0.002	0.002	0.002
Lower Lim.	0.001512	0.0012	0.002	0.0018	0.002	0.0015

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.002	<0.002			
5/19/2016				<0.002	<0.002
7/19/2016	<0.002				
7/20/2016		<0.002		<0.002	<0.002
9/14/2016	<0.002	<0.002			<0.002
9/15/2016				<0.002	
11/10/2016	<0.002	<0.002			
11/11/2016			<0.002		
11/14/2016				<0.002	
1/20/2017		<0.002			
1/24/2017	<0.002				
2/6/2017			<0.002	<0.002	
2/9/2017					<0.002
3/14/2017		<0.002			
3/15/2017	<0.002		<0.002	<0.002	<0.002
4/11/2017			<0.002		<0.002
4/25/2017	<0.002	<0.002			
4/26/2017			<0.002	<0.002	<0.002
6/7/2017			<0.002		
7/11/2017			<0.002		
8/9/2017	<0.002	<0.002			
8/10/2017			<0.002	<0.002	<0.002
3/29/2018	<0.002		<0.002	<0.002	<0.002
3/30/2018		<0.002			
6/14/2018	<0.002	<0.002	<0.002	<0.002	<0.002
10/4/2018	<0.002	<0.002	<0.002	<0.002	<0.002
2/26/2019		<0.002			
2/27/2019	<0.002			<0.002	
2/28/2019			<0.002		0.0025
4/2/2019			<0.002		
4/3/2019				<0.002	<0.002
4/4/2019	<0.002	<0.002			
9/18/2019	<0.002	<0.002	<0.002		
9/19/2019				<0.002	<0.002
Mean	0.002	0.002	0.002	0.002	0.002036
Std. Dev.	0	0	0	0	0.0001336
Upper Lim.	0.002	0.002	0.002	0.002	0.0025
Lower Lim.	0.002	0.002	0.002	0.002	0.002

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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)					<0.0005
5/19/2016		<0.0005	<0.0005	<0.0005		
7/19/2016						<0.0005
7/20/2016	0.00066 (J)	0.0025	0.0013 (J)	<0.0005		
9/14/2016	0.00095 (J)	<0.0005	0.00098 (J)	<0.0005		<0.0005
11/10/2016				<0.0005		<0.0005
11/11/2016	0.001 (J)	0.00052 (J)	0.0017 (J)			
1/24/2017						<0.0005
1/27/2017		0.00049 (J)	0.0022 (J)	<0.0005		
2/6/2017	0.00072 (J)					
2/8/2017					0.0051	
2/23/2017					0.014	
3/14/2017						<0.0005
3/15/2017	0.00062 (J)	0.00064 (J)	0.0016 (J)	<0.0005		
3/17/2017					0.013	
4/11/2017					0.016	
4/25/2017						<0.0005
4/26/2017	0.0014 (J)	0.001 (J)	0.00026 (J)	<0.0005	0.01	
5/17/2017					0.011	
6/7/2017					0.01	
7/11/2017					0.0085	
8/9/2017				0.0004 (J)		<0.0005
8/10/2017	<0.0005	0.0011 (J)	0.00049 (J)			
3/29/2018		<0.0005	0.0008 (J)	0.0008 (J)	0.015	
3/30/2018	0.0035					<0.0005
6/14/2018	0.0012 (J)	<0.0005	0.00067 (J)	0.00054 (J)	0.011	<0.0005
10/3/2018						<0.0005
10/4/2018	0.00086 (J)	<0.0005	0.00079 (J)	<0.0005	0.0055	
2/27/2019	0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049	<0.0005
4/3/2019		0.00081 (J)	0.00043 (J)	<0.0005	0.0056	
4/4/2019	0.0017 (J)					<0.0005
9/18/2019				<0.0005	0.005	<0.0005
9/19/2019	0.0023	<0.0005	0.00028 (J)			
Mean	0.00128	0.0008757	0.0009	0.0004907	0.009614	0.0005
Std. Dev.	0.0008509	0.0006587	0.000588	0.0001351	0.00395	0
Upper Lim.	0.001754	0.0011	0.001316	0.00054	0.01241	0.0005
Lower Lim.	0.0007057	0.00049	0.0004835	0.0004	0.006817	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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				<0.0005	<0.0005
7/19/2016	0.012				
7/20/2016		0.0018 (J)		<0.0005	<0.0005
9/14/2016	0.013	0.0014 (J)			<0.0005
9/15/2016				<0.0005	
11/10/2016	0.016	0.0016 (J)			
11/11/2016			<0.0005		
11/14/2016				<0.0005	
1/20/2017		0.0014 (J)			
1/24/2017	0.015				
2/6/2017			0.00058 (J)	<0.0005	
2/9/2017					0.00073 (J)
3/14/2017		0.0023 (J)			
3/15/2017	0.014		0.00045 (J)	<0.0005	<0.0005
4/11/2017			<0.0005		<0.0005
4/25/2017	0.014	0.0023 (J)			
4/26/2017			<0.0005	<0.0005	<0.0005
6/7/2017			<0.0005		
7/11/2017			<0.0005		
8/9/2017	0.016	0.0011 (J)			
8/10/2017			0.00049 (J)	<0.0005	<0.0005
3/29/2018	0.0092		<0.0005	0.00066 (J)	<0.0005
3/30/2018		0.0016 (J)			
6/14/2018	0.0035	0.00055 (J)	<0.0005	0.0011 (J)	<0.0005
10/4/2018	0.0078	0.00041 (J)	<0.0005	<0.0005	<0.0005
2/26/2019		0.00086 (J)			
2/27/2019	0.00084 (J)			0.0019 (J)	
2/28/2019			0.00019 (J)		<0.0005
4/2/2019			<0.0005		
4/3/2019				0.0037	<0.0005
4/4/2019	0.00077 (J)	<0.0005			
9/18/2019	0.00011 (J)	0.00018 (J)	0.00045 (J)		
9/19/2019				0.0028	<0.0005
Mean	0.009223	0.001318	0.0004757	0.001047	0.0005164
Std. Dev.	0.005934	0.0007468	8.742E-05	0.001026	6.147E-05
Upper Lim.	0.01343	0.001847	0.00058	0.0019	0.00073
Lower Lim.	0.005019	0.0007889	0.00045	0.0005	0.0005

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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)			
Mean	0.3083	0.3225	0.3853	0.6382	0.734	0.5373
Std. Dev.	0.2589	0.3632	0.4032	0.2713	0.343	0.3951
Upper Lim.	0.4917	0.5797	0.6709	0.8304	0.9346	0.751
Lower Lim.	0.1249	0.06523	0.09968	0.446	0.5056	0.2732

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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
Mean	1.668	0.3111	0.2921	1.559	0.2858
Std. Dev.	0.9186	0.4174	0.2362	0.6027	0.1778
Upper Lim.	2.318	0.6068	0.4594	1.985	0.4117
Lower Lim.	1.017	0.01542	0.1249	1.132	0.1599

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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	<0.2	0.11 (J)	0.34		
9/14/2016	0.17 (J)	<0.2	0.095 (J)	0.31		0.89
11/10/2016				0.26		0.88
11/11/2016	0.14 (J)	<0.2	<0.2			
1/24/2017						0.92
1/27/2017		<0.2	<0.2	0.28		
2/6/2017	0.15 (J)					
2/8/2017					<0.2	
2/23/2017					<0.2	
3/14/2017						0.77
3/15/2017	0.16 (J)	<0.2	<0.2	0.3		
3/17/2017					<0.2	
4/11/2017					<0.2	
4/25/2017						0.95
4/26/2017	0.17 (J)	<0.2	<0.2	0.33	<0.2	
5/17/2017					<0.2	
6/7/2017					<0.2	
7/11/2017					<0.2	
8/9/2017				0.32		0.91
8/10/2017	0.2	<0.2	0.11 (J)			
10/11/2017					<0.2	0.88
10/12/2017	0.14 (J)	<0.2	0.091 (J)	0.28		
3/29/2018		<0.2	0.089 (J)	0.27	<0.2	
3/30/2018	0.13 (J)					0.79
6/14/2018	0.15 (J)	<0.2	0.1 (J)	0.27	<0.2	0.79
10/3/2018						0.79
10/4/2018	0.18 (J)	<0.2	0.12 (J)	0.23	<0.2	
2/27/2019	0.21	0.047 (J)	0.06 (J)	0.25	<0.2	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)			
Mean	0.1664	0.1581	0.1248	0.2856	0.1789	0.8479
Std. Dev.	0.03252	0.07203	0.04921	0.04515	0.05582	0.06896
Upper Lim.	0.1884	0.2	0.2	0.3162	0.2	0.92
Lower Lim.	0.1444	0.047	0.089	0.255	0.048	0.78

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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	<0.2	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	<0.2	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
Mean	0.2052	0.1271	0.36	0.3152	1.479
Std. Dev.	0.2025	0.04077	0.04276	0.1222	0.1999
Upper Lim.	0.2484	0.1548	0.389	0.398	1.6
Lower Lim.	0.1003	0.09951	0.331	0.2324	1.3

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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					<0.001
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						<0.001
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	0.00055 (J)		<0.001
11/10/2016				0.00047 (J)		<0.001
11/11/2016	<0.001	<0.001	<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
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
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	
8/9/2017				<0.001		<0.001
8/10/2017	<0.001	<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)	<0.001	0.00068 (J)	<0.001	<0.001
4/3/2019		<0.001	<0.001	0.00047 (J)	<0.001	
4/4/2019	<0.001					<0.001
9/18/2019				0.00045 (J)	<0.001	<0.001
9/19/2019	0.00041 (J)	<0.001	<0.001			
Mean	0.0008867	0.000965	0.001	0.0008017	0.001	0.001
Std. Dev.	0.0002675	0.0001212	0	0.0002518	0	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00041	0.00058	0.001	0.00047	0.001	0.001

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.001	<0.001			
5/19/2016				<0.001	<0.001
7/19/2016	<0.001				
7/20/2016		<0.001		<0.001	<0.001
9/14/2016	<0.001	<0.001			<0.001
9/15/2016				<0.001	
11/10/2016	<0.001	<0.001			
11/11/2016			<0.001		
11/14/2016				<0.001	
1/20/2017		<0.001			
1/24/2017	<0.001				
2/6/2017			<0.001	<0.001	
2/9/2017					<0.001
3/14/2017		<0.001			
3/15/2017	<0.001		<0.001	<0.001	<0.001
4/11/2017			<0.001		<0.001
4/25/2017	<0.001	<0.001			
4/26/2017			<0.001	<0.001	<0.001
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017	<0.001	<0.001			
8/10/2017			<0.001	<0.001	<0.001
3/29/2018	<0.001		<0.001	<0.001	<0.001
3/30/2018		<0.001			
2/26/2019		0.00033 (J)			
2/27/2019	0.00014 (J)			0.00017 (J)	
2/28/2019			<0.001		0.00014 (J)
4/2/2019			<0.001		
4/3/2019				<0.001	<0.001
4/4/2019	<0.001	<0.001			
9/18/2019	<0.001	<0.001	<0.001		
9/19/2019				<0.001	<0.001
Mean	0.0009283	0.0009442	0.001	0.0009308	0.0009283
Std. Dev.	0.0002483	0.0001934	0	0.0002396	0.0002483
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00014	0.00033	0.001	0.00017	0.00014

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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			
Mean	0.01394	0.004236	0.006557	0.004307	0.0039	0.005793
Std. Dev.	0.007154	0.001525	0.00195	0.001211	0.001453	0.001067
Upper Lim.	0.019	0.005	0.007872	0.005	0.005	0.006549
Lower Lim.	0.008869	0.0018	0.005576	0.0025	0.0018	0.005037

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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
Mean	0.009857	0.005279	0.05129	0.01847	0.03582
Std. Dev.	0.002949	0.0009415	0.00775	0.01185	0.00549
Upper Lim.	0.01195	0.005885	0.056	0.0215	0.03971
Lower Lim.	0.007768	0.004602	0.045	0.012	0.03193

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.005					0.0153
5/19/2016		<0.005	<0.005	0.00491 (J)		
7/19/2016						0.0093 (J)
7/20/2016	<0.005	<0.005	0.00095 (J)	0.0025 (J)		
9/14/2016	0.00091 (J)	<0.005	0.0009 (J)	0.0028 (J)		0.012 (J)
11/10/2016				0.0016 (J)		0.0065 (J)
11/11/2016	<0.005	<0.005	<0.005			
1/24/2017						0.0049 (J)
1/27/2017		<0.005	<0.005	0.0023 (J)		
2/6/2017	<0.005					
2/8/2017					<0.005	
2/23/2017					<0.005	
3/14/2017						0.0034 (J)
3/15/2017	<0.005	<0.005	<0.005	0.0022 (J)		
3/17/2017					<0.005	
4/11/2017					<0.005	
4/25/2017						0.004 (J)
4/26/2017	<0.005	<0.005	<0.005	0.0019 (J)	<0.005	
5/17/2017					<0.005	
6/7/2017					0.001 (J)	
7/11/2017					<0.005	
8/9/2017				0.0028 (J)		0.0042 (J)
8/10/2017	0.00093 (J)	0.0011 (J)	0.0046 (J)			
3/29/2018		<0.005	<0.005	0.0028 (J)	<0.005	
3/30/2018	<0.005					0.0049 (J)
6/14/2018	<0.005	<0.005	<0.005	0.0018 (J)	<0.005	0.0056 (J)
10/3/2018						0.0041 (J)
10/4/2018	<0.005	<0.005	<0.005	<0.005	<0.005	
2/27/2019	<0.005	<0.005	0.00063 (J)	0.0019 (J)	<0.005	0.0061
4/3/2019		<0.005	<0.005	<0.005	<0.005	
4/4/2019	<0.005					0.0039 (J)
9/18/2019				0.0021 (J)	<0.005	0.0052
9/19/2019	<0.005	<0.005	0.00073 (J)			
Mean	0.004417	0.004721	0.003772	0.002829	0.004714	0.006386
Std. Dev.	0.001482	0.001042	0.001953	0.001221	0.001069	0.003473
Upper Lim.	0.005	0.005	0.005	0.00491	0.005	0.007885
Lower Lim.	0.00093	0.0011	0.0009	0.0018	0.001	0.004194

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.005	0.00526 (J)			
5/19/2016				<0.005	0.00762 (J)
7/19/2016	<0.005				
7/20/2016		0.0066 (J)		<0.005	0.0084 (J)
9/14/2016	<0.005	0.0081 (J)			0.0071 (J)
9/15/2016				<0.005	
11/10/2016	<0.005	0.0076 (J)			
11/11/2016			<0.005		
11/14/2016				<0.005	
1/20/2017		0.0094 (J)			
1/24/2017	<0.005				
2/6/2017			0.001 (J)	<0.005	
2/9/2017					0.018
3/14/2017		0.0044 (J)			
3/15/2017	<0.005		<0.005	<0.005	0.0057 (J)
4/11/2017			<0.005		0.0047 (J)
4/25/2017	<0.005	0.0074 (J)			
4/26/2017			<0.005	<0.005	0.004 (J)
6/7/2017			0.0015 (J)		
7/11/2017			<0.005		
8/9/2017	<0.005	0.0066 (J)			
8/10/2017			0.0016 (J)	<0.005	0.0046 (J)
3/29/2018	<0.005		0.0012 (J)	<0.005	0.0048 (J)
3/30/2018		0.0024 (J)			
6/14/2018	<0.005	0.0026 (J)	0.0014 (J)	<0.005	0.0046 (J)
10/4/2018	<0.005	0.00085 (J)	<0.005	<0.005	0.003 (J)
2/26/2019		0.0032 (J)			
2/27/2019	<0.005			<0.005	
2/28/2019			0.0013 (J)		0.0053
4/2/2019			<0.005		
4/3/2019				<0.005	0.0026 (J)
4/4/2019	<0.005	0.002 (J)			
9/18/2019	<0.005	0.0026 (J)	0.0011 (J)		
9/19/2019				<0.005	0.0048 (J)
Mean	0.005	0.004929	0.00315	0.005	0.006087
Std. Dev.	0	0.002699	0.001925	0	0.003794
Upper Lim.	0.005	0.006841	0.005	0.005	0.007542
Lower Lim.	0.005	0.003017	0.0012	0.005	0.003858

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.005					<0.005
5/19/2016		<0.005	<0.005	<0.005		
7/19/2016						<0.005
7/20/2016	<0.005	<0.005	<0.005	<0.005		
9/14/2016	<0.005	<0.005	<0.005	<0.005		<0.005
11/10/2016				<0.005		<0.005
11/11/2016	<0.005	<0.005	<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
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
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	
8/9/2017				<0.005		<0.005
8/10/2017	0.00031 (J)	0.00049 (J)	0.0021			
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	0.0005 (J)
10/3/2018						<0.005
10/4/2018	<0.005	<0.005	<0.005	<0.005	<0.005	
2/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<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
9/19/2019	<0.005	<0.005	<0.005			
Mean	0.004665	0.004678	0.004793	0.005	0.004664	0.004679
Std. Dev.	0.001253	0.001205	0.0007751	0	0.001256	0.001203
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00031	0.00049	0.0021	0.005	0.0003	0.0005

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.00735	<0.005			
5/19/2016				0.00518	0.00228
7/19/2016	0.0075				
7/20/2016		<0.005		0.0038	0.0016
9/14/2016	0.0091	<0.005			0.0024
9/15/2016				0.0034	
11/10/2016	0.0056	<0.005			
11/11/2016			<0.005		
11/14/2016				0.0033	
1/20/2017		<0.005			
1/24/2017	0.012				
2/6/2017			<0.005	0.0033	
2/9/2017					0.0023
3/14/2017		<0.005			
3/15/2017	0.012		<0.005	0.003	0.0031
4/11/2017			<0.005		0.0023
4/25/2017	0.013	<0.005			
4/26/2017			<0.005	0.0032	0.0019
6/7/2017			<0.005		
7/11/2017			<0.005		
8/9/2017	0.016	<0.005			
8/10/2017			0.00036 (J)	0.0031	0.0021
3/29/2018	0.016		<0.005	0.0034	0.0021
3/30/2018		<0.005			
6/14/2018	0.012	<0.005	<0.005	0.0031	0.0025
10/4/2018	0.013	<0.005	<0.005	0.0033	0.002
2/26/2019		<0.005			
2/27/2019	0.0081			0.0035	
2/28/2019			<0.005		0.0027
4/2/2019			<0.005		
4/3/2019				0.0031	0.0019
4/4/2019	0.0091	<0.005			
9/18/2019	0.0044 (J)	<0.005	<0.005		
9/19/2019				0.0021 (J)	0.0026 (J)
Mean	0.01037	0.005	0.004669	0.003341	0.00227
Std. Dev.	0.003609	0	0.00124	0.0006493	0.0003831
Upper Lim.	0.01292	0.005	0.005	0.0035	0.002541
Lower Lim.	0.007811	0.005	0.00036	0.003	0.001999

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

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					<0.001
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						<0.001
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	<0.001		<0.001
11/10/2016				<0.001		<0.001
11/11/2016	<0.001	<0.001	<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
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
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	
8/9/2017				<0.001		<0.001
8/10/2017	<0.001	<0.001	<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	0.00014 (J)	<0.001
10/3/2018						<0.001
10/4/2018	<0.001	<0.001	<0.001	<0.001	0.00013 (J)	
2/27/2019	<0.001	<0.001	<0.001	<0.001	0.00016 (J)	<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
9/19/2019	<0.001	<0.001	<0.001			
Mean	0.0009346	0.001	0.001	0.001	0.00057	0.001
Std. Dev.	0.0002445	0	0	0	0.0004467	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	8.5E-05	0.001	0.001	0.001	0.00012	0.001

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/14/2019 2:15 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.001	<0.001			
5/19/2016				<0.001	<0.001
7/19/2016	8.5E-05 (J)				
7/20/2016		<0.001		<0.001	<0.001
9/14/2016	0.00017 (J)	<0.001			<0.001
9/15/2016				<0.001	
11/10/2016	0.00017 (J)	<0.001			
11/11/2016			<0.001		
11/14/2016				<0.001	
1/20/2017		<0.001			
1/24/2017	0.00023 (J)				
2/6/2017			<0.001	<0.001	
2/9/2017					<0.001
3/14/2017		<0.001			
3/15/2017	0.00021 (J)		<0.001	<0.001	<0.001
4/11/2017			<0.001		<0.001
4/25/2017	0.00024 (J)	<0.001			
4/26/2017			<0.001	<0.001	<0.001
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017	0.0002 (J)	<0.001			
8/10/2017			<0.001	<0.001	<0.001
3/29/2018	0.00019 (J)		<0.001	<0.001	<0.001
3/30/2018		<0.001			
6/14/2018	0.00017 (J)	<0.001	<0.001	<0.001	<0.001
10/4/2018	0.00015 (J)	<0.001	<0.001	<0.001	<0.001
2/26/2019		<0.001			
2/27/2019	0.00015 (J)			<0.001	
2/28/2019			<0.001		<0.001
4/2/2019			<0.001		
4/3/2019				<0.001	<0.001
4/4/2019	9.5E-05 (J)	<0.001			
9/18/2019	<0.001	<0.001	<0.001		
9/19/2019				<0.001	<0.001
Mean	0.00029	0.001	0.001	0.001	0.001
Std. Dev.	0.000304	0	0	0	0
Upper Lim.	0.00024	0.001	0.001	0.001	0.001
Lower Lim.	9.5E-05	0.001	0.001	0.001	0.001

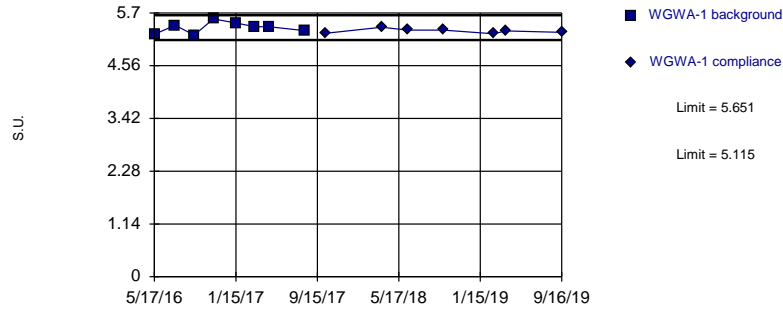
Intrawell Prediction Limit All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/14/2019, 1:53 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
pH (S.U.)	WGWA-1	5.651	5.115	9/16/2019	5.28	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWA-18	8.256	5.409	9/17/2019	6.47	No	7	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWA-2	6.8	6.18	9/17/2019	6.25	No	8	0	n/a	0.01182	NP Intra (normality) 1 of 3
pH (S.U.)	WGWA-3	5.823	5.401	9/18/2019	5.62	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWA-4	7.624	6.174	9/17/2019	6.93	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWA-5	7.486	4.161	9/16/2019	6.94	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWA-6	8.426	6.858	9/16/2019	7.55	No	7	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWA-7	7.16	5.43	9/18/2019	5.6	No	8	0	n/a	0.01182	NP Intra (normality) 1 of 3
pH (S.U.)	WGWC-10	9.902	5.177	9/19/2019	6.45	No	7	0	sqrt(x)	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-11	6.316	5.777	9/19/2019	5.82	No	7	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-12	7.233	6.248	9/19/2019	6.63	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-13	6.939	6.335	9/18/2019	6.46	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-14A	6.437	5.643	9/18/2019	5.5	Yes	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-15	8.055	7.269	9/18/2019	7.8	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-16	6.262	5.015	9/18/2019	5.19	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-17	6.846	6.112	9/18/2019	6.17	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-19	7.076	6.539	9/18/2019	6.71	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-8	6.578	5.09	9/19/2019	5.39	No	8	0	No	0.000342	Param Intra 1 of 3
pH (S.U.)	WGWC-9	6.731	5.557	9/19/2019	6.38	No	6	0	No	0.000342	Param Intra 1 of 3

Within Limits

pH
Intrawell Parametric

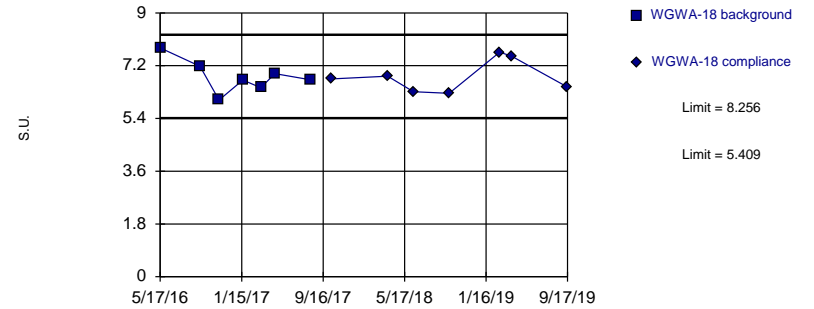


Background Data Summary: Mean=5.383, Std. Dev.=0.1187, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9603, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

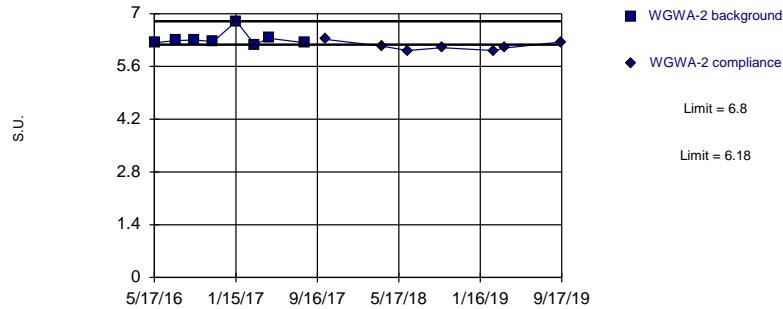


Background Data Summary: Mean=6.833, Std. Dev.=0.5633, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9738, critical = 0.73. Kappa = 2.527 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Non-parametric

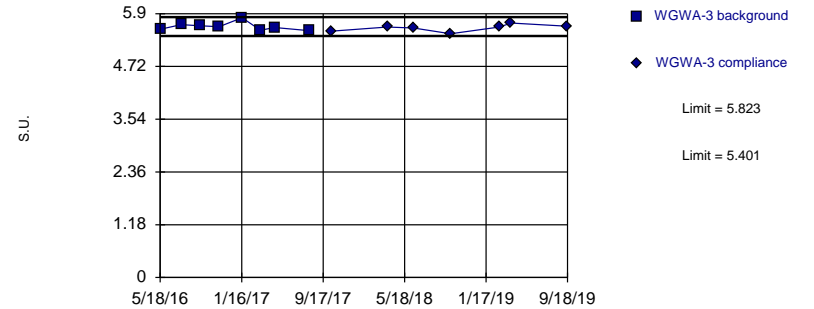


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.02358. Individual comparison alpha = 0.01182 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

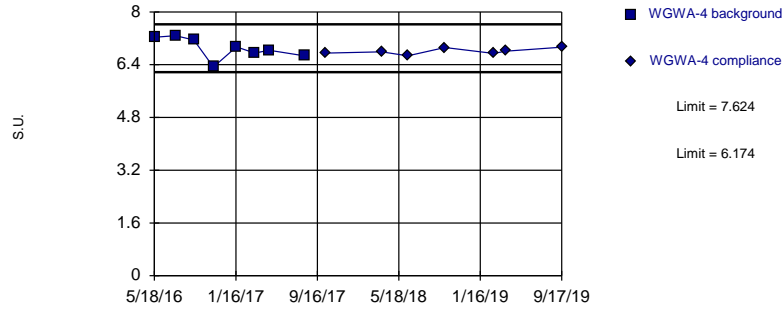


Background Data Summary: Mean=5.612, Std. Dev.=0.09338, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8715, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

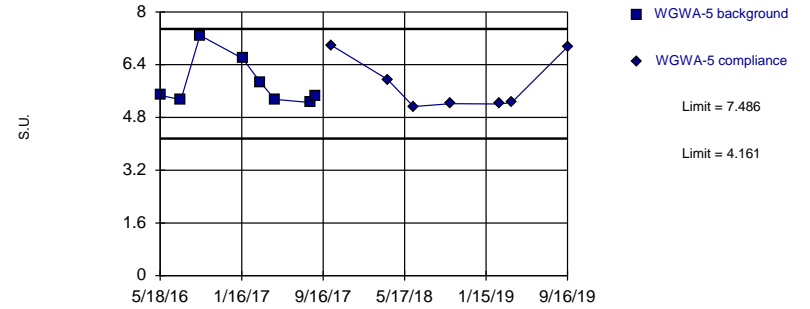


Background Data Summary: Mean=6.899, Std. Dev.=0.3213, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9498, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

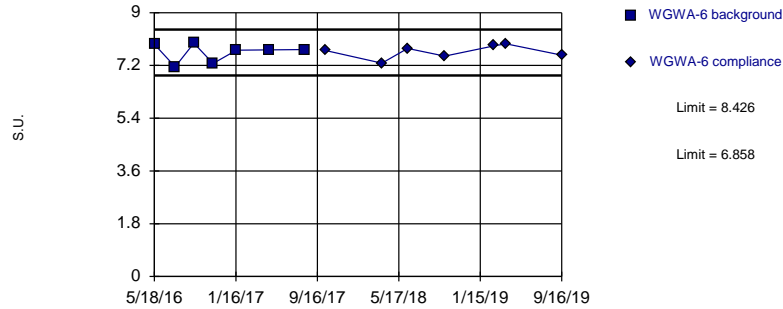


Background Data Summary: Mean=5.823, Std. Dev.=0.7369, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7798, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

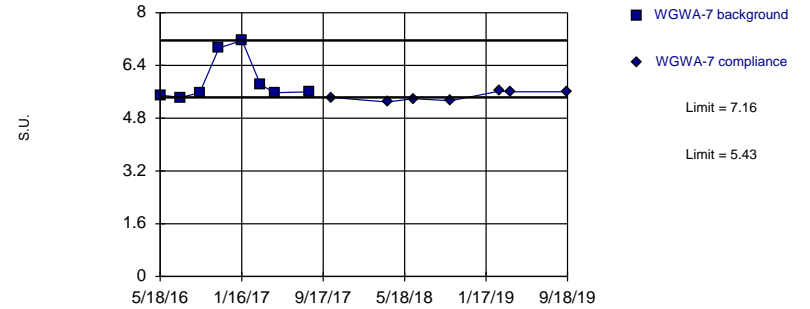


Background Data Summary: Mean=7.642, Std. Dev.=0.3103, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8525, critical = 0.73. Kappa = 2.527 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Non-parametric

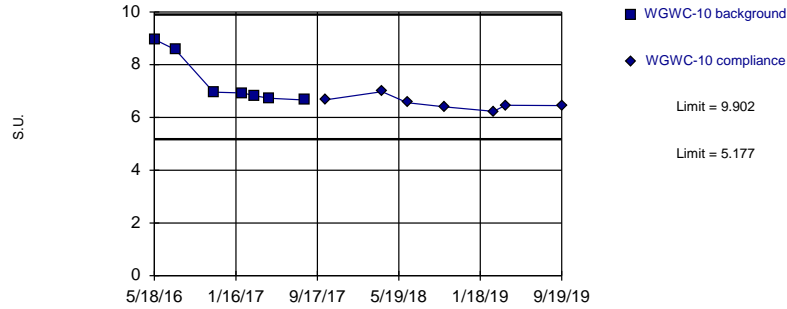


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 8 background values. Well-constituent pair annual alpha = 0.02358. Individual comparison alpha = 0.01182 (1 of 3).

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

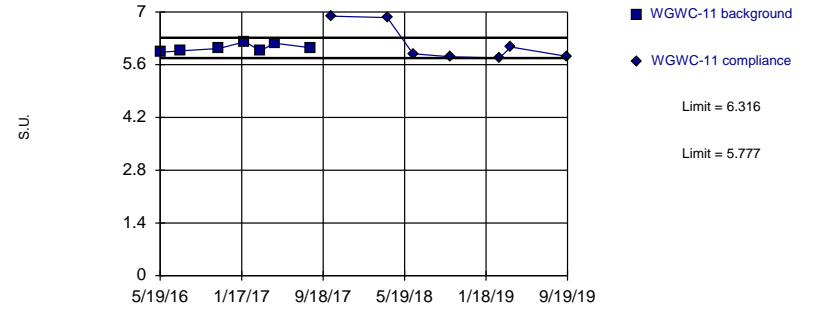


Background Data Summary (based on square root transformation): Mean=2.711, Std. Dev.=0.1724, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7339, critical = 0.73. Kappa = 2.527 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

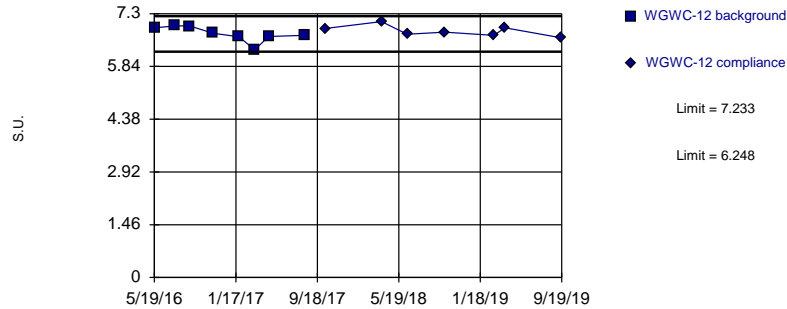


Background Data Summary: Mean=6.047, Std. Dev.=0.1066, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.899, critical = 0.73. Kappa = 2.527 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

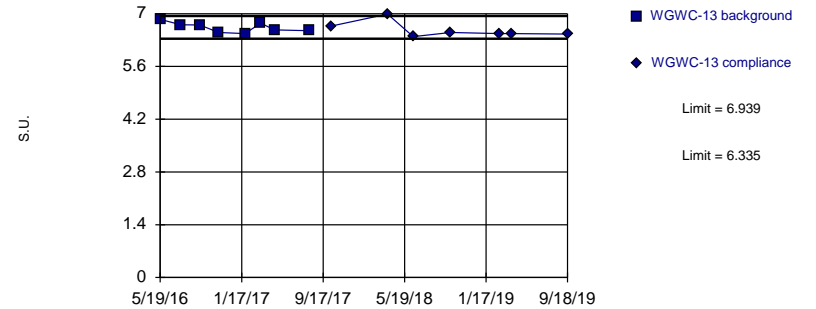


Background Data Summary: Mean=6.74, Std. Dev.=0.2184, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8774, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

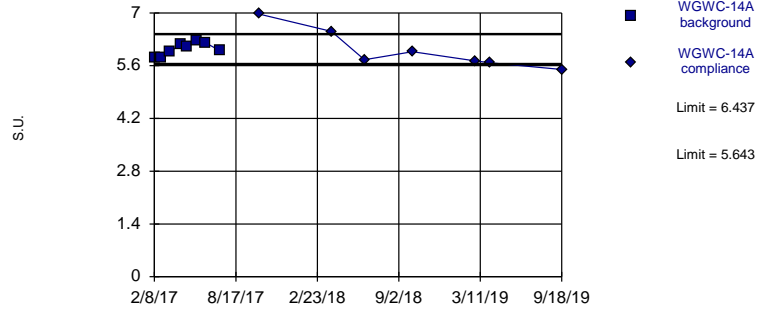


Background Data Summary: Mean=6.637, Std. Dev.=0.1339, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9399, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limits

pH
Intrawell Parametric

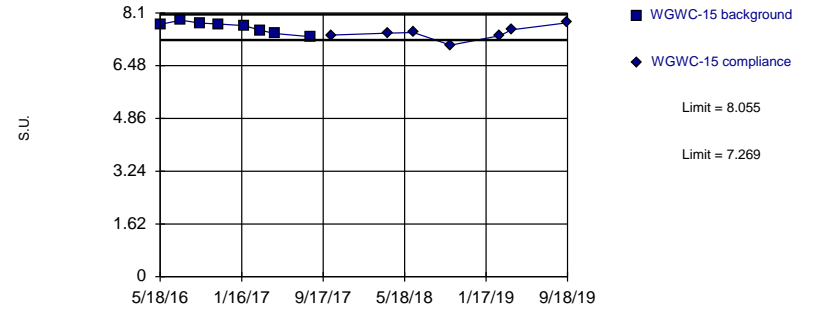


Background Data Summary: Mean=6.04, Std. Dev.=0.1758, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9217, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

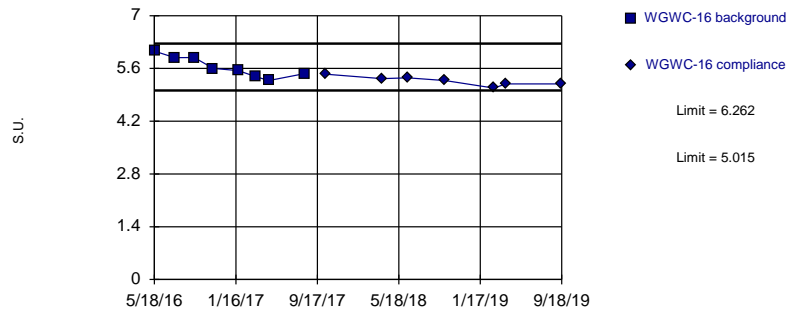


Background Data Summary: Mean=7.662, Std. Dev.=0.1742, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9232, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

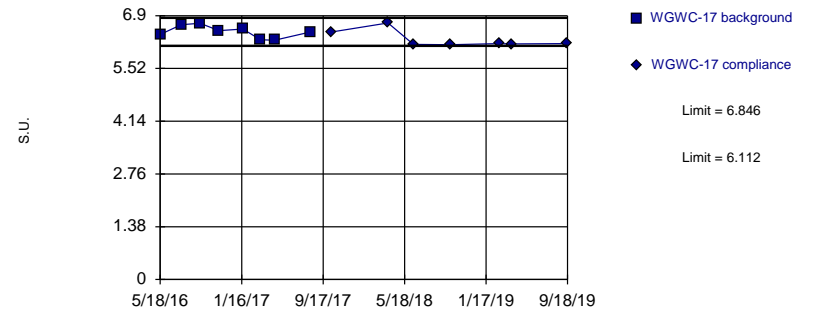


Background Data Summary: Mean=5.638, Std. Dev.=0.2764, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9364, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

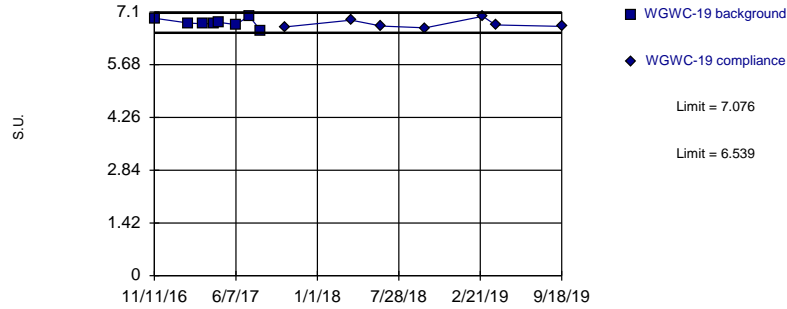


Background Data Summary: Mean=6.479, Std. Dev.=0.1626, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9405, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

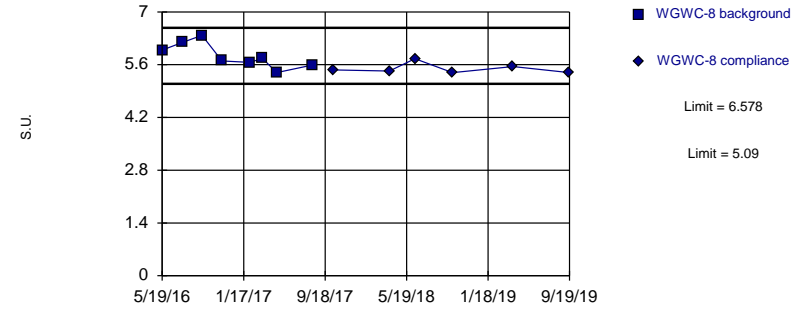


Background Data Summary: Mean=6.808, Std. Dev.=0.119, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9284, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric

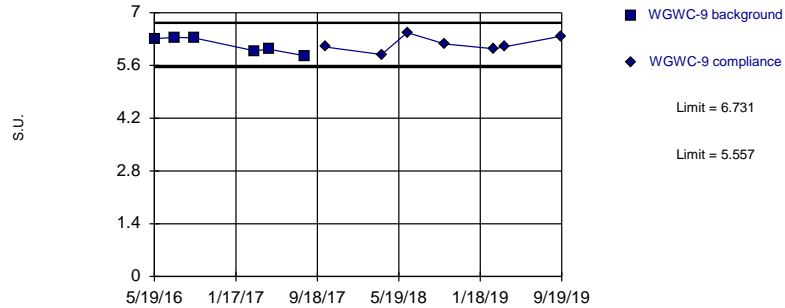


Background Data Summary: Mean=5.834, Std. Dev.=0.3298, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9531, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

pH
Intrawell Parametric



Background Data Summary: Mean=6.144, Std. Dev.=0.2097, n=6. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8479, critical = 0.713. Kappa = 2.798 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

Prediction Limit Analysis Run 11/14/2019 1:50 PM View: Intrawell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Prediction Limit

Constituent: pH Analysis Run 11/14/2019 1:53 PM View: IntraWell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-10	WGWC-11	WGWC-11	WGWC-12	WGWC-12	WGWC-13	WGWC-13
5/18/2016	8.96							
5/19/2016			5.93		6.91		6.85	
7/18/2016			5.9661					
7/20/2016	8.56774				6.962608		6.705264	
9/1/2016					6.96			
9/14/2016							6.7	
11/10/2016							6.5	
11/11/2016	6.96		6.03		6.76			
1/27/2017			6.21		6.66		6.47	
2/6/2017	6.93							
3/15/2017	6.82		5.97		6.3		6.75	
4/26/2017	6.73		6.17		6.67		6.57	
8/9/2017							6.55	
8/10/2017	6.66		6.05		6.7			
10/12/2017		6.67		6.89		6.89		6.67
3/29/2018				6.85		7.08		6.99
3/30/2018		6.98						
6/14/2018		6.56		5.89		6.73		6.39
10/4/2018		6.4		5.81		6.79		6.5
2/27/2019		6.23		5.78		6.7		6.47
4/3/2019				6.07		6.91		6.47
4/4/2019		6.46						
9/18/2019								6.46
9/19/2019		6.45		5.82		6.63		

Prediction Limit

Constituent: pH Analysis Run 11/14/2019 1:53 PM View: IntraWell PL
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-14A	WGWC-15	WGWC-15	WGWC-16	WGWC-16	WGWC-17	WGWC-17
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	
1/20/2017							6.55	
1/24/2017			7.71		5.54			
2/8/2017	5.81							
2/23/2017	5.8							
3/14/2017			7.57				6.27	
3/15/2017					5.39			
3/17/2017	5.97							
4/11/2017	6.18							
4/25/2017			7.47		5.28		6.26	
4/26/2017	6.09							
5/17/2017	6.26							
6/7/2017	6.21							
7/11/2017	6							
8/9/2017			7.37		5.46		6.47	
10/11/2017		6.97		7.42		5.45		6.47
3/29/2018		6.51				5.33		
3/30/2018				7.48				6.71
6/14/2018		5.76		7.5		5.35		6.15
10/3/2018				7.11				
10/4/2018		5.97				5.28		6.14
2/26/2019								6.17
2/27/2019		5.73		7.4		5.08		
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

Prediction Limit

Constituent: pH Analysis Run 11/14/2019 1:53 PM View: IntraWell PL
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-19	WGWC-19	WGWC-8	WGWC-8	WGWC-9	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			
11/11/2016	6.93					
11/14/2016			5.7			
2/6/2017	6.8		5.66			
3/15/2017	6.78		5.77		5.99	
4/11/2017	6.79					
4/26/2017	6.82		5.39		6.03	
6/7/2017	6.76					
7/11/2017	6.99					
8/10/2017	6.59		5.59		5.86	
10/12/2017		6.7		5.46		6.09
3/29/2018		6.88		5.43		5.89
6/14/2018		6.72		5.76		6.47
10/4/2018		6.67		5.39		6.17
2/28/2019		6.98				6.045 (D)
4/2/2019		6.75				
4/3/2019				5.55		6.1
9/18/2019		6.71				
9/19/2019				5.39		6.38

Confidence Interval Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/14/2019, 2:10 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	WGWC-19	0.056	0.045	0.009	Yes	14	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.0215	0.012	0.009	Yes	14	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03971	0.03193	0.009	Yes	14	0	No	0.01	Param.

Confidence Interval All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/14/2019, 2:10 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	14	78.57	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	14	85.71	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	14	85.71	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.0015	0.00053	0.01	No	14	50	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0019	0.00095	0.01	No	14	50	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-15	0.002478	0.001714	0.01	No	14	0	sqrt(x)	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.001471	0.0007832	0.01	No	14	28.57	No	0.01	Param.
Arsenic (mg/L)	WGWC-17	0.001	0.00076	0.01	No	14	57.14	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-19	0.001	0.001	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-8	0.0015	0.00055	0.01	No	14	71.43	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	14	78.57	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.04079	0.03687	2	No	14	0	x^4	0.01	Param.
Barium (mg/L)	WGWC-11	0.03574	0.02997	2	No	14	0	No	0.01	Param.
Barium (mg/L)	WGWC-12	0.0209	0.0151	2	No	14	0	x^2	0.01	Param.
Barium (mg/L)	WGWC-13	0.05704	0.04598	2	No	14	0	x^2	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04774	0.03041	2	No	14	0	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.02252	0.019	2	No	14	0	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.069	0.032	2	No	14	0	No	0.01	NP (normality)
Barium (mg/L)	WGWC-17	0.01924	0.0136	2	No	14	0	No	0.01	Param.
Barium (mg/L)	WGWC-19	0.0022	0.0011	2	No	14	14.29	No	0.01	NP (normality)
Barium (mg/L)	WGWC-8	0.003088	0.001192	2	No	14	14.29	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-9	0.005	0.0007	2	No	14	28.57	No	0.01	NP (Cohens/xfrm)
Beryllium (mg/L)	WGWC-10	0.001	0.001	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-11	0.001	0.001	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-12	0.001	0.001	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-13	0.001	0.001	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-14A	0.001	0.00032	0.004	No	14	85.71	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-15	0.001	0.001	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.001	0.00022	0.004	No	14	92.86	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-17	0.001	0.001	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-19	0.001	0.001	0.004	No	14	100	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-8	0.001848	0.001373	0.004	No	14	0	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.001	0.00036	0.004	No	14	64.29	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.001	0.00021	0.005	No	14	92.86	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-11	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-12	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-13	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-14A	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-15	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-16	0.0007674	0.0004372	0.005	No	14	14.29	No	0.01	Param.
Cadmium (mg/L)	WGWC-17	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-19	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-8	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Cadmium (mg/L)	WGWC-9	0.001	0.001	0.005	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-10	0.002445	0.001512	0.1	No	14	14.29	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0012	0.1	No	14	78.57	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-12	0.002	0.002	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0018	0.1	No	14	92.86	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.002	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	14	92.86	No	0.01	NP (NDs)

Confidence Interval All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/14/2019, 2:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Chromium (mg/L)	WGWC-16	0.002	0.002	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-17	0.002	0.002	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-19	0.002	0.002	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-8	0.002	0.002	0.1	No	14	100	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	14	92.86	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001754	0.0007057	0.013	No	14	7.143	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0011	0.00049	0.013	No	14	42.86	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001316	0.0004835	0.013	No	14	7.143	No	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.00054	0.0004	0.013	No	14	71.43	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-14A	0.01241	0.006817	0.013	No	14	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0005	0.0005	0.013	No	14	100	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.01343	0.005019	0.013	No	14	0	No	0.01	Param.
Cobalt (mg/L)	WGWC-17	0.001847	0.0007889	0.013	No	14	7.143	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.00058	0.00045	0.013	No	14	64.29	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-8	0.0019	0.0005	0.013	No	14	64.29	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.00073	0.0005	0.013	No	14	92.86	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4917	0.1249	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.5797	0.06523	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.6709	0.09968	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.8304	0.446	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.9346	0.5056	10.4	No	14	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.751	0.2732	10.4	No	14	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	2.318	1.017	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.6068	0.01542	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.4594	0.1249	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	1.985	1.132	10.4	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4117	0.1599	10.4	No	14	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-10	0.1884	0.1444	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-11	0.2	0.047	4	No	15	73.33	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-12	0.2	0.089	4	No	15	26.67	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-13	0.3162	0.255	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-14A	0.2	0.048	4	No	15	86.67	No	0.01	NP (NDs)
Fluoride (mg/L)	WGWC-15	0.92	0.78	4	No	15	0	No	0.01	NP (normality)
Fluoride (mg/L)	WGWC-16	0.2484	0.1003	4	No	15	13.33	ln(x)	0.01	Param.
Fluoride (mg/L)	WGWC-17	0.1548	0.09951	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-19	0.389	0.331	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-8	0.398	0.2324	4	No	15	0	No	0.01	Param.
Fluoride (mg/L)	WGWC-9	1.6	1.3	4	No	15	0	No	0.01	NP (normality)
Lead (mg/L)	WGWC-10	0.001	0.00041	0.015	No	12	83.33	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	12	91.67	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-12	0.001	0.001	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00047	0.015	No	12	58.33	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.001	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.001	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	12	91.67	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	12	91.67	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-19	0.001	0.001	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-8	0.001	0.00017	0.015	No	12	91.67	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	12	91.67	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.019	0.008869	0.009	No	14	0	No	0.01	Param.

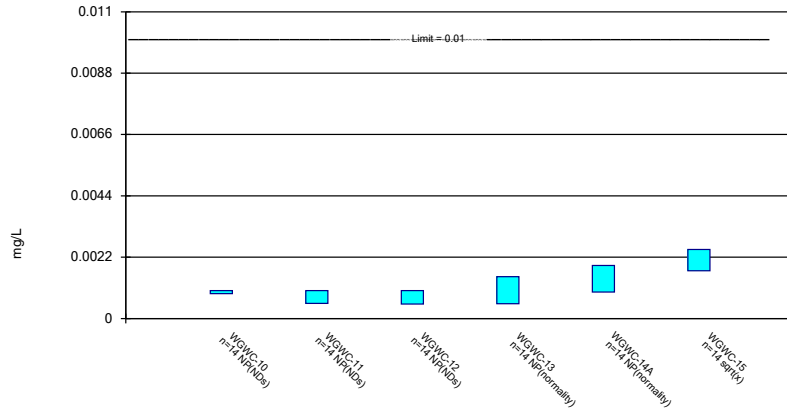
Confidence Interval All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 11/14/2019, 2:10 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.009	No	14	78.57	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.007872	0.005576	0.009	No	14	7.143	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0025	0.009	No	14	71.43	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-14A	0.005	0.0018	0.009	No	14	57.14	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-15	0.006549	0.005037	0.009	No	14	14.29	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.01195	0.007768	0.009	No	14	7.143	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005885	0.004602	0.009	No	14	7.143	ln(x)	0.01	Param.
Lithium (mg/L)	WGWC-19	0.056	0.045	0.009	Yes	14	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-8	0.0215	0.012	0.009	Yes	14	0	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03971	0.03193	0.009	Yes	14	0	No	0.01	Param.
Molybdenum (mg/L)	WGWC-10	0.005	0.00093	0.015	No	14	85.71	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.005	0.0011	0.015	No	14	92.86	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.005	0.0009	0.015	No	14	64.29	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-13	0.00491	0.0018	0.015	No	14	14.29	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.005	0.001	0.015	No	14	92.86	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.007885	0.004194	0.015	No	14	0	ln(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-16	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-17	0.006841	0.003017	0.015	No	14	0	No	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.005	0.0012	0.015	No	14	50	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-8	0.005	0.005	0.015	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-9	0.007542	0.003858	0.015	No	14	0	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	14	92.86	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	14	92.86	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	14	92.86	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-13	0.005	0.005	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	14	92.86	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	14	92.86	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01292	0.007811	0.05	No	14	0	No	0.01	Param.
Selenium (mg/L)	WGWC-17	0.005	0.005	0.05	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	14	92.86	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0035	0.003	0.05	No	14	0	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002541	0.001999	0.05	No	14	0	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	14	92.86	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-12	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-13	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00012	0.002	No	14	50	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-15	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-16	0.00024	0.000095	0.002	No	14	14.29	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-17	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-19	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-8	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-9	0.001	0.001	0.002	No	14	100	No	0.01	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

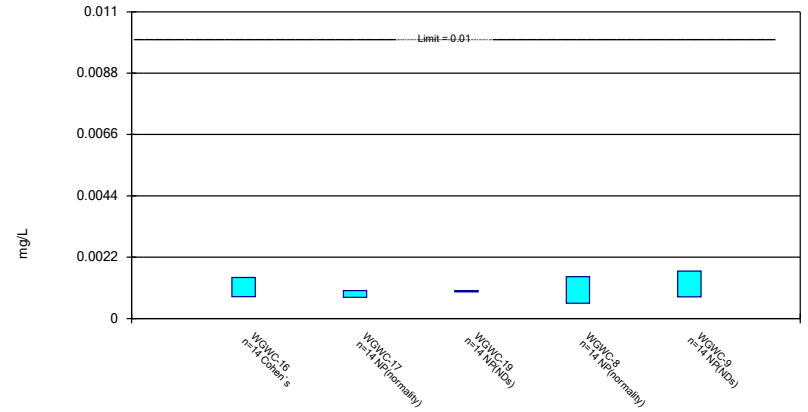
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/14/2019 2:05 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

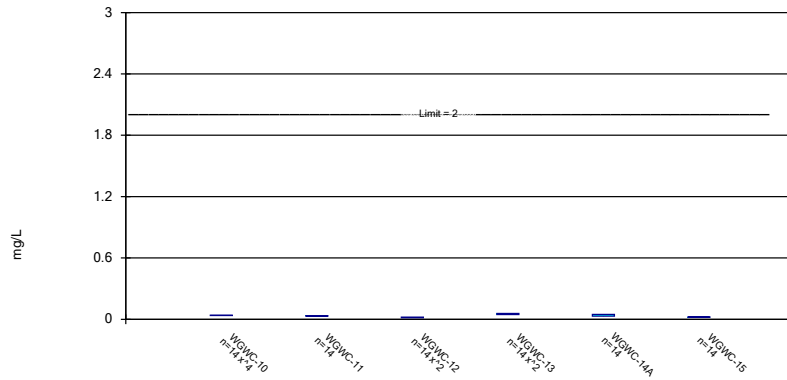
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/14/2019 2:05 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

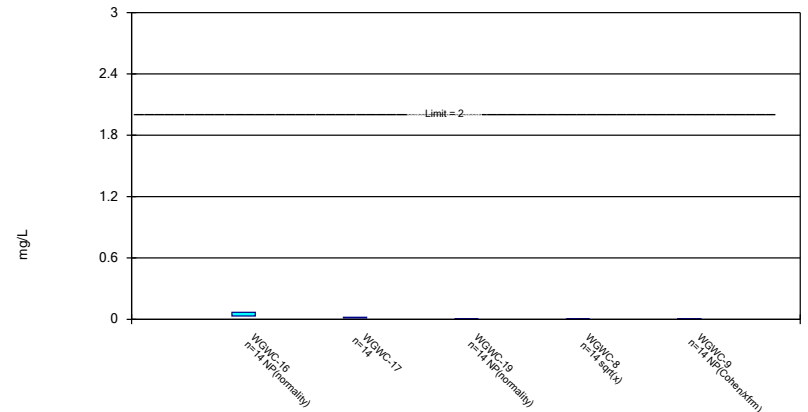
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/14/2019 2:05 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

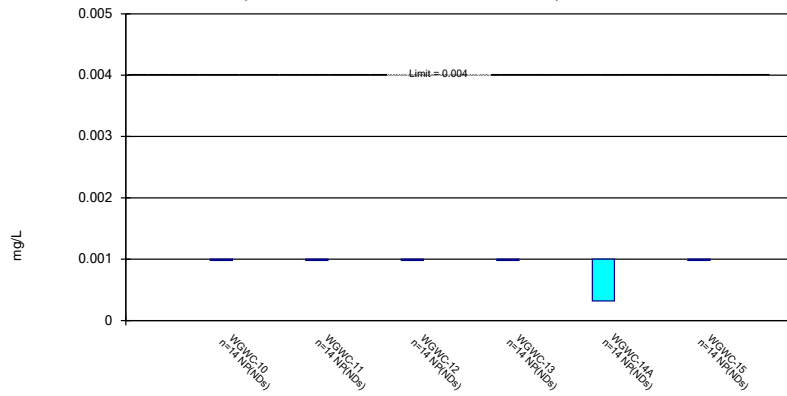
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/14/2019 2:05 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

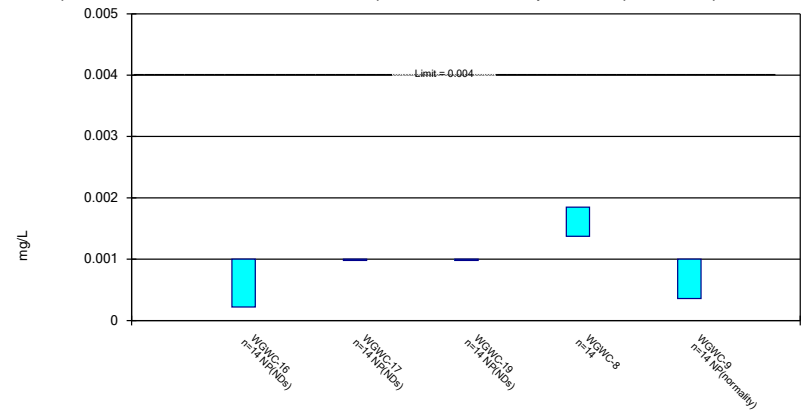
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 11/14/2019 2:05 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

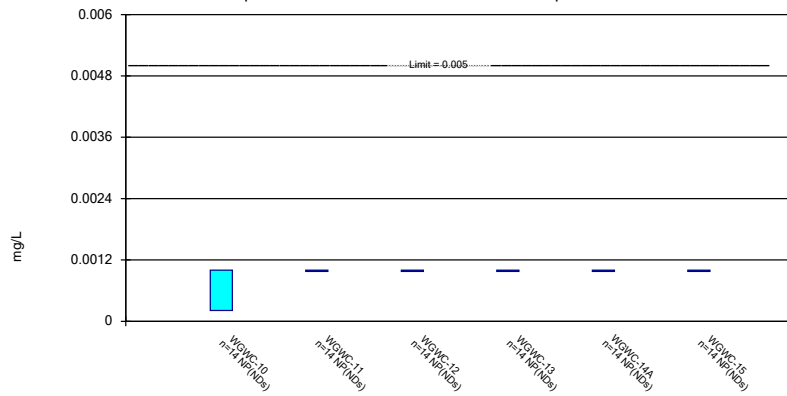
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/14/2019 2:05 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

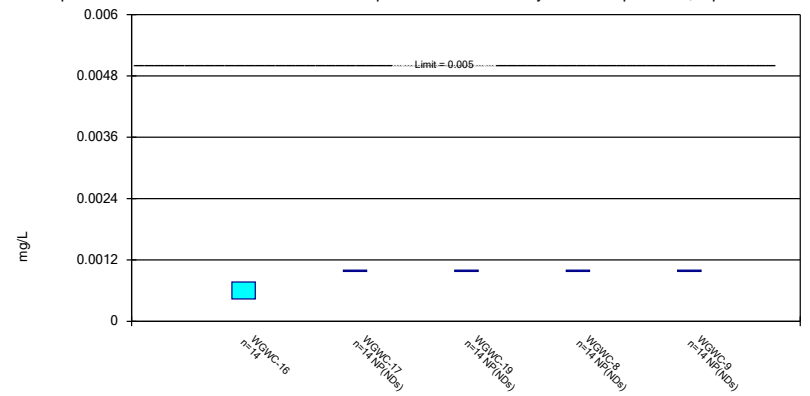
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 11/14/2019 2:05 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

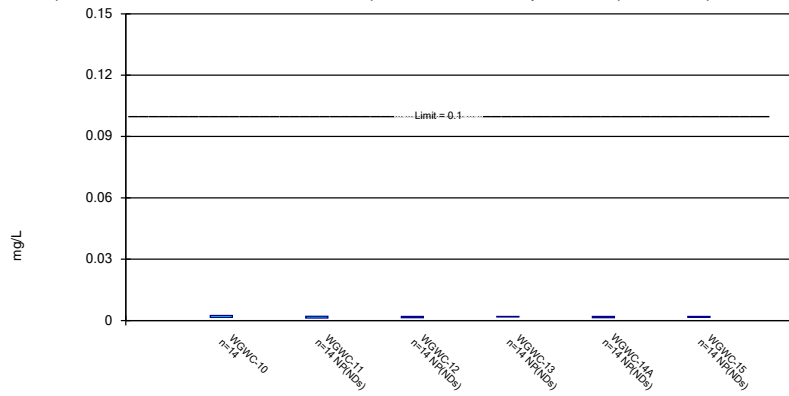
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

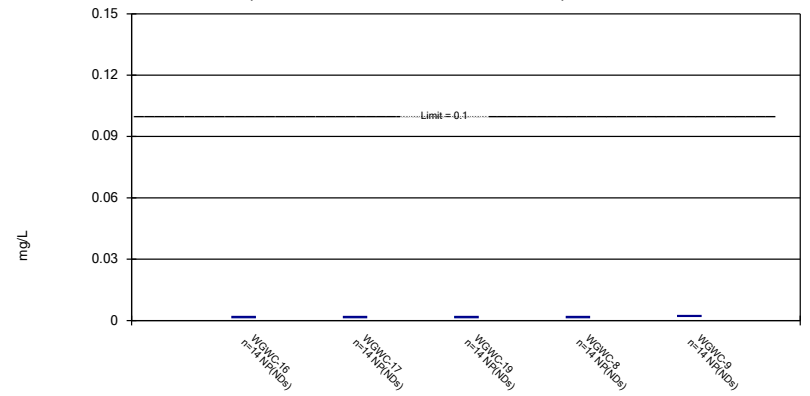
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

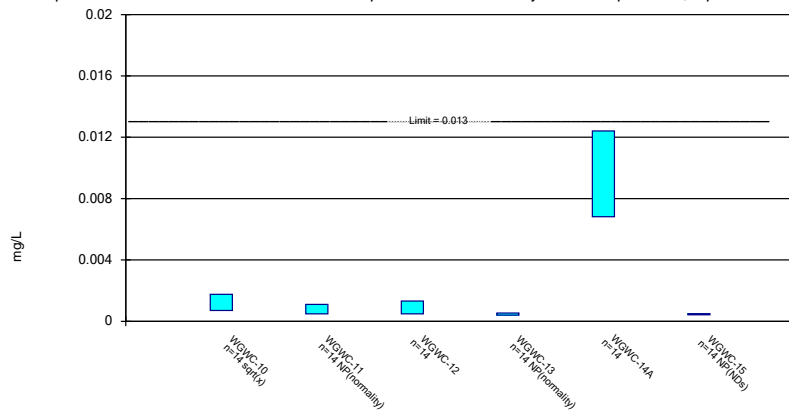
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

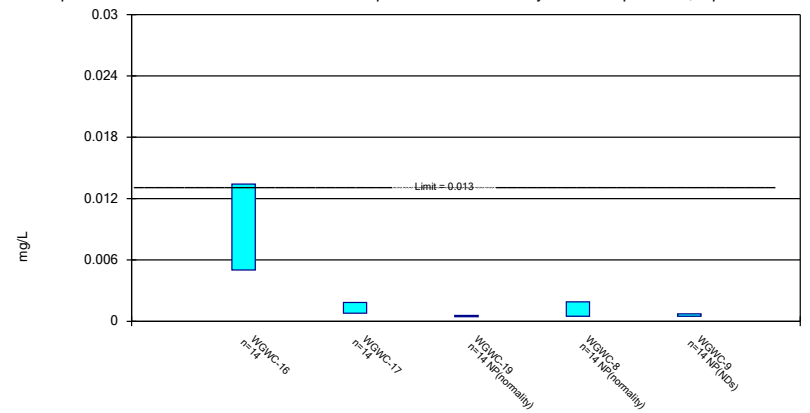
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

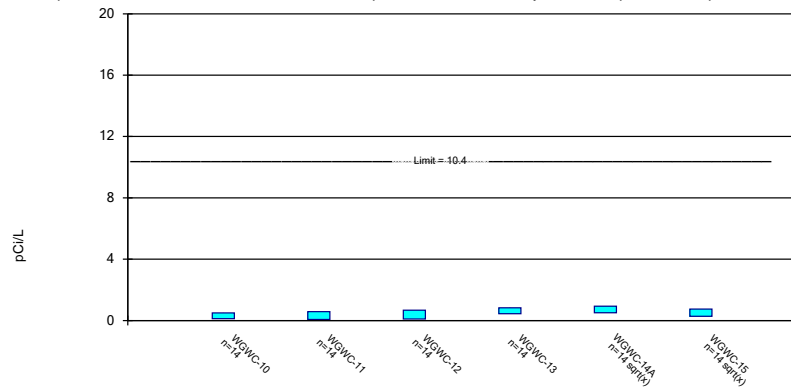
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

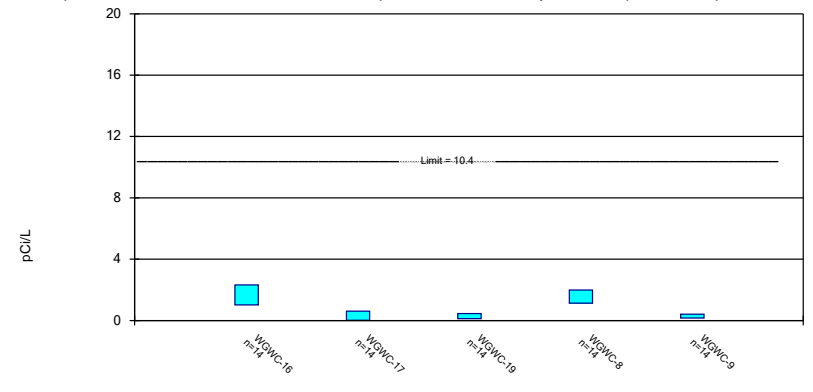
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

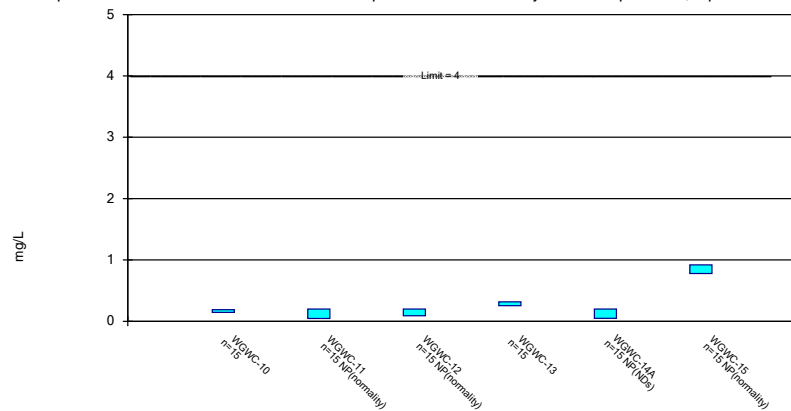
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

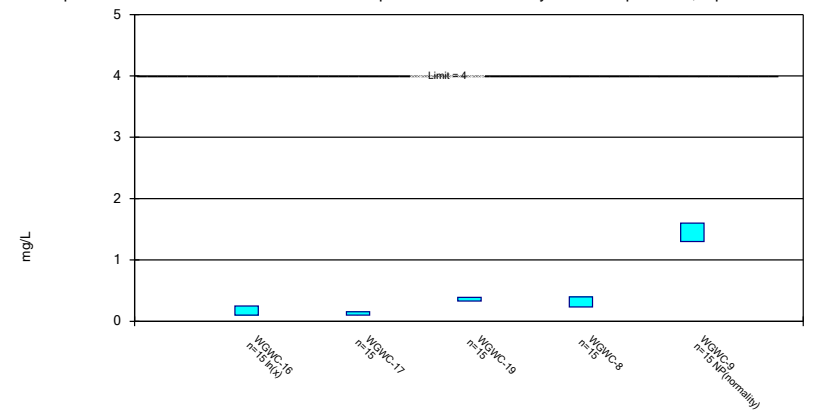
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

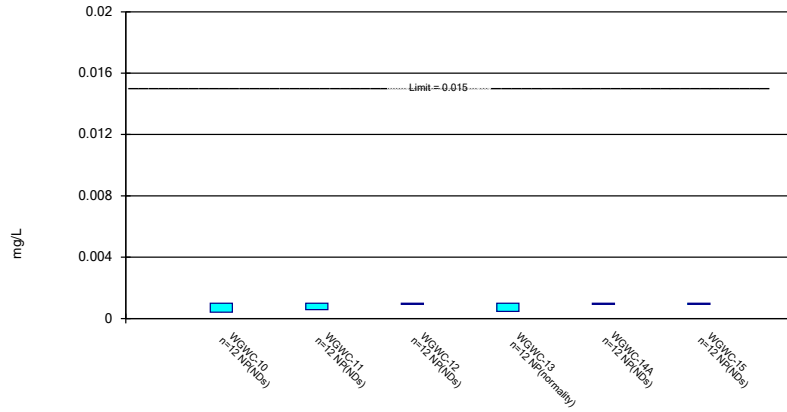
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

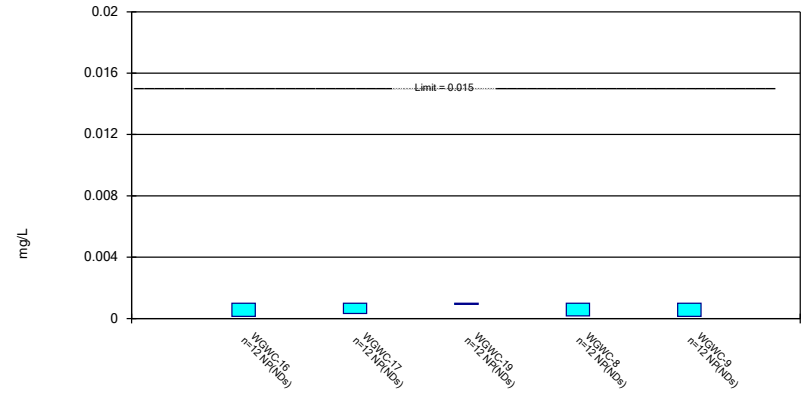
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

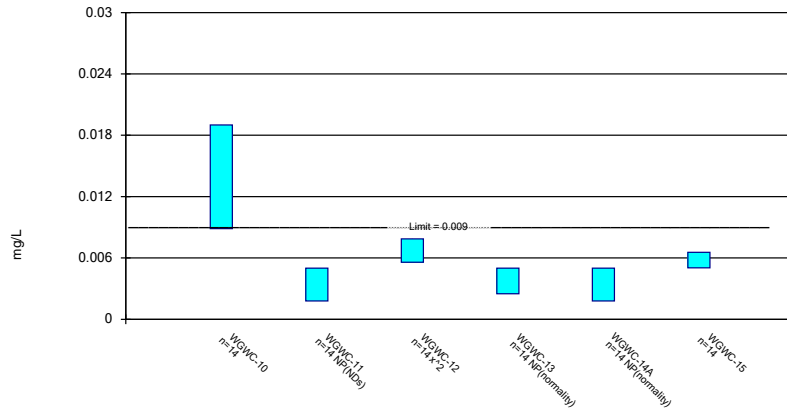
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

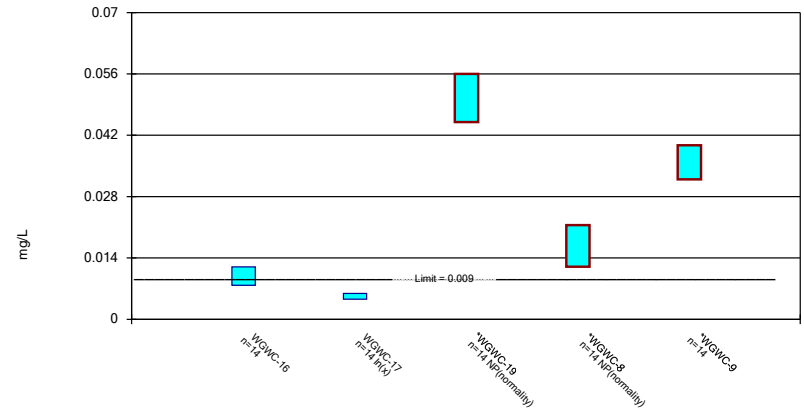
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

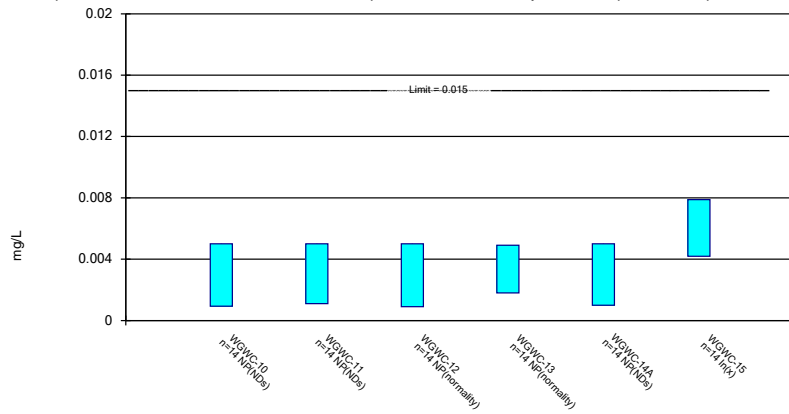
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

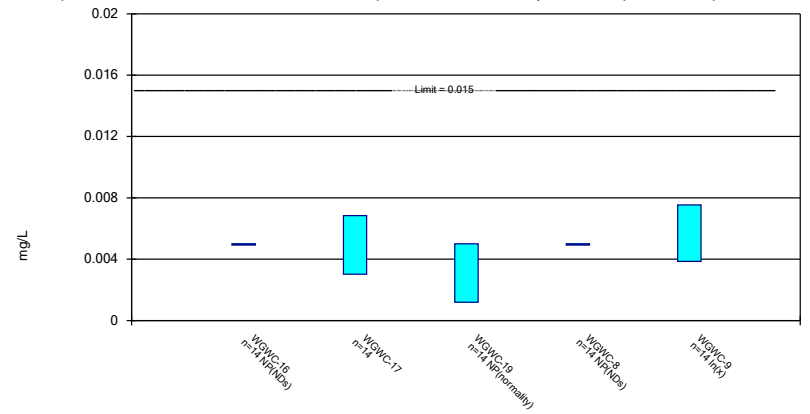
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

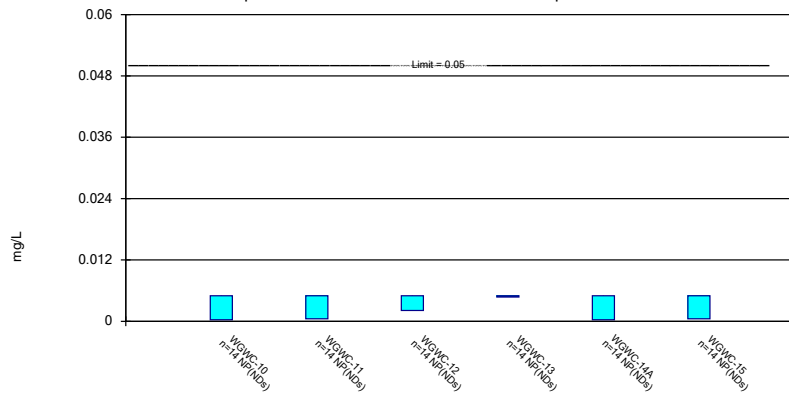
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

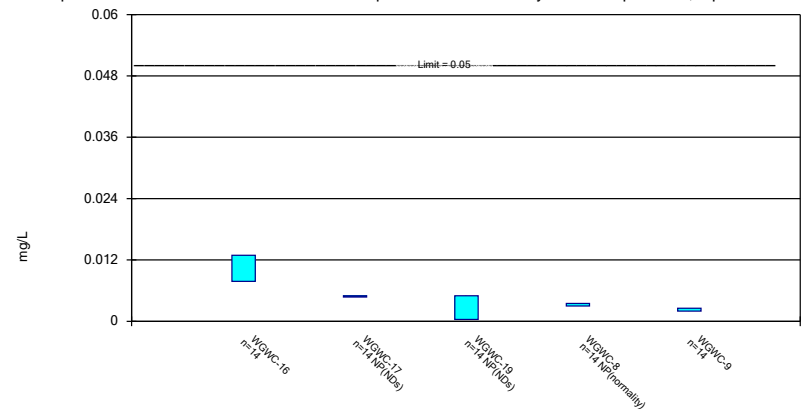
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

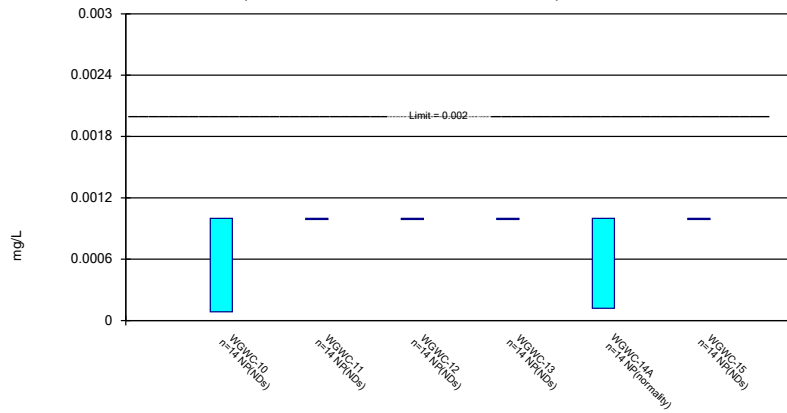
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

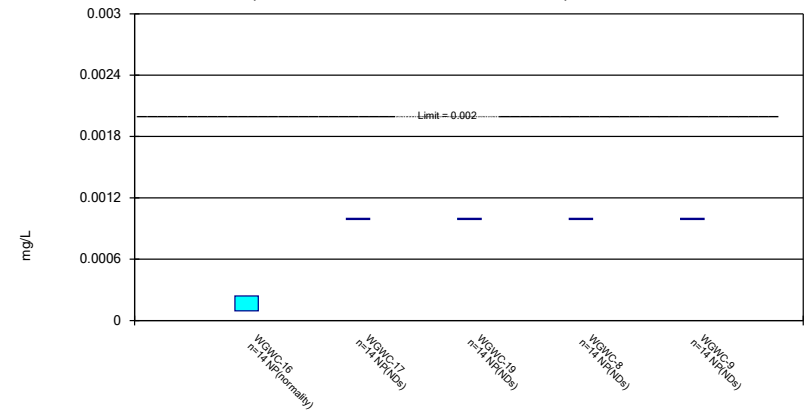
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/14/2019 2:06 PM View: Confidence Interval
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 11/14/2019 2:06 PM View: Confidence Interval
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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			
Mean	0.0009121	0.0009293	0.0009286	0.00086	0.001346	0.002111
Std. Dev.	0.0002035	0.0001803	0.0001817	0.0003048	0.0006789	0.0005738
Upper Lim.	0.001	0.001	0.001	0.0015	0.0019	0.002478
Lower Lim.	0.00089	0.00054	0.00052	0.00053	0.00095	0.001714

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	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)			
11/11/2016			<0.001		
11/14/2016				<0.001	
1/20/2017		<0.001			
1/24/2017	0.0015				
2/6/2017			<0.001	<0.001	
2/9/2017					0.0017
3/14/2017		<0.001			
3/15/2017	0.0014		<0.001	<0.001	0.00047 (J)
4/11/2017			<0.001		<0.001
4/25/2017	0.0014	0.00095 (J)			
4/26/2017			<0.001	<0.001	<0.001
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017	0.0013	<0.001			
8/10/2017			<0.001	<0.001	<0.001
3/29/2018	0.0014		<0.001	<0.001	<0.001
3/30/2018		<0.001			
6/14/2018	<0.001	0.00076 (J)	<0.001	<0.001	<0.001
10/4/2018	0.0013	0.00088 (J)	<0.001	0.0015	<0.001
2/26/2019		0.0005 (J)			
2/27/2019	0.00046 (J)			0.00047 (J)	
2/28/2019			<0.001		<0.001
4/2/2019			<0.001		
4/3/2019				<0.001	<0.001
4/4/2019	<0.001	<0.001			
9/18/2019	<0.001	<0.001	<0.001		
9/19/2019				0.00032 (J)	<0.001
Mean	0.001226	0.0008921	0.001	0.0009171	0.0009964
Std. Dev.	0.0003791	0.0001688	0	0.0002908	0.000251
Upper Lim.	0.001471	0.001	0.001	0.0015	0.0017
Lower Lim.	0.0007832	0.00076	0.001	0.00055	0.00078

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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			
Mean	0.03858	0.03286	0.0176	0.05121	0.03907	0.02076
Std. Dev.	0.003547	0.004074	0.004933	0.008097	0.01223	0.002486
Upper Lim.	0.04079	0.03574	0.0209	0.05704	0.04774	0.02252
Lower Lim.	0.03687	0.02997	0.0151	0.04598	0.03041	0.019

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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)
Mean	0.05454	0.01642	0.001912	0.002234	0.002238
Std. Dev.	0.01636	0.003984	0.001343	0.001474	0.001879
Upper Lim.	0.069	0.01924	0.0022	0.003088	0.005
Lower Lim.	0.032	0.0136	0.0011	0.001192	0.0007

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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					<0.001
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						<0.001
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	<0.001		<0.001
11/10/2016				<0.001		<0.001
11/11/2016	<0.001	<0.001	<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
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
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	
8/9/2017				<0.001		<0.001
8/10/2017	<0.001	<0.001	<0.001			
3/29/2018		<0.001	<0.001	<0.001	<0.001	
3/30/2018	<0.001					<0.001
6/14/2018	<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	
2/27/2019	<0.001	<0.001	<0.001	<0.001	0.00017 (J)	<0.001
4/3/2019		<0.001	<0.001	<0.001	<0.001	
4/4/2019	<0.001					<0.001
9/18/2019				<0.001	0.00032 (J)	<0.001
9/19/2019	<0.001	<0.001	<0.001			
Mean	0.001	0.001	0.001	0.001	0.0008921	0.001
Std. Dev.	0	0	0	0	0.0002757	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.001	0.001	0.001	0.001	0.00032	0.001

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.001	<0.001			
5/19/2016				0.00102 (J)	<0.001
7/19/2016	<0.001				
7/20/2016		<0.001		0.0014 (J)	<0.001
9/14/2016	<0.001	<0.001			<0.001
9/15/2016				0.00093 (J)	
11/10/2016	<0.001	<0.001			
11/11/2016			<0.001		
11/14/2016				0.0014 (J)	
1/20/2017		<0.001			
1/24/2017	<0.001				
2/6/2017			<0.001	0.0017 (J)	
2/9/2017					0.00041 (J)
3/14/2017		<0.001			
3/15/2017	<0.001		<0.001	0.0016 (J)	<0.001
4/11/2017			<0.001		<0.001
4/25/2017	<0.001	<0.001			
4/26/2017			<0.001	0.0017 (J)	<0.001
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017	<0.001	<0.001			
8/10/2017			<0.001	0.0017 (J)	0.00034 (J)
3/29/2018	<0.001		<0.001	0.0018 (J)	<0.001
3/30/2018		<0.001			
6/14/2018	<0.001	<0.001	<0.001	0.0015 (J)	<0.001
10/4/2018	<0.001	<0.001	<0.001	0.0019 (J)	0.00036 (J)
2/26/2019		<0.001			
2/27/2019	0.00022 (J)			0.0021 (J)	
2/28/2019			<0.001		0.00031 (J)
4/2/2019			<0.001		
4/3/2019				0.0019 (J)	<0.001
4/4/2019	<0.001	<0.001			
9/18/2019	<0.001	<0.001	<0.001		
9/19/2019				0.0019	0.00041 (J)
Mean	0.0009443	0.001	0.001	0.001611	0.0007736
Std. Dev.	0.0002085	0	0	0.0003355	0.0003162
Upper Lim.	0.001	0.001	0.001	0.001848	0.001
Lower Lim.	0.00022	0.001	0.001	0.001373	0.00036

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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					<0.001
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						<0.001
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	<0.001		<0.001
11/10/2016				<0.001		<0.001
11/11/2016	<0.001	<0.001	<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
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
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	
8/9/2017				<0.001		<0.001
8/10/2017	<0.001	<0.001	<0.001			
3/29/2018		<0.001	<0.001	<0.001	<0.001	
3/30/2018	<0.001					<0.001
6/14/2018	<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	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/3/2019		<0.001	<0.001	<0.001	<0.001	
4/4/2019	<0.001					<0.001
9/18/2019				<0.001	<0.001	<0.001
9/19/2019	0.00021 (J)	<0.001	<0.001			
Mean	0.0009436	0.001	0.001	0.001	0.001	0.001
Std. Dev.	0.0002111	0	0	0	0	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00021	0.001	0.001	0.001	0.001	0.001

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.000362 (J)	<0.001			
5/19/2016				<0.001	<0.001
7/19/2016	<0.001				
7/20/2016		<0.001		<0.001	<0.001
9/14/2016	0.00037 (J)	<0.001			<0.001
9/15/2016				<0.001	
11/10/2016	<0.001	<0.001			
11/11/2016			<0.001		
11/14/2016				<0.001	
1/20/2017		<0.001			
1/24/2017	0.00055 (J)				
2/6/2017			<0.001	<0.001	
2/9/2017					<0.001
3/14/2017		<0.001			
3/15/2017	0.00067 (J)		<0.001	<0.001	<0.001
4/11/2017			<0.001		<0.001
4/25/2017	0.00058 (J)	<0.001			
4/26/2017			<0.001	<0.001	<0.001
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017	0.00054 (J)	<0.001			
8/10/2017			<0.001	<0.001	<0.001
3/29/2018	0.00082 (J)		<0.001	<0.001	<0.001
3/30/2018		<0.001			
6/14/2018	0.0007 (J)	<0.001	<0.001	<0.001	<0.001
10/4/2018	0.00065 (J)	<0.001	<0.001	<0.001	<0.001
2/26/2019		<0.001			
2/27/2019	0.00055 (J)			<0.001	
2/28/2019			<0.001		<0.001
4/2/2019			<0.001		
4/3/2019				<0.001	<0.001
4/4/2019	0.00047 (J)	<0.001			
9/18/2019	0.00017 (J)	<0.001	<0.001		
9/19/2019				<0.001	<0.001
Mean	0.0006023	0.001	0.001	0.001	0.001
Std. Dev.	0.0002331	0	0	0	0
Upper Lim.	0.0007674	0.001	0.001	0.001	0.001
Lower Lim.	0.0004372	0.001	0.001	0.001	0.001

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.002					<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	<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
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
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)	<0.002	0.0018 (J)	<0.002	0.0015 (J)
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			
Mean	0.001979	0.001886	0.002	0.001986	0.002	0.001964
Std. Dev.	0.0006589	0.0003134	0	5.345E-05	0	0.0001336
Upper Lim.	0.002445	0.0021	0.002	0.002	0.002	0.002
Lower Lim.	0.001512	0.0012	0.002	0.0018	0.002	0.0015

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.002	<0.002			
5/19/2016				<0.002	<0.002
7/19/2016	<0.002				
7/20/2016		<0.002		<0.002	<0.002
9/14/2016	<0.002	<0.002			<0.002
9/15/2016				<0.002	
11/10/2016	<0.002	<0.002			
11/11/2016			<0.002		
11/14/2016				<0.002	
1/20/2017		<0.002			
1/24/2017	<0.002				
2/6/2017			<0.002	<0.002	
2/9/2017					<0.002
3/14/2017		<0.002			
3/15/2017	<0.002		<0.002	<0.002	<0.002
4/11/2017			<0.002		<0.002
4/25/2017	<0.002	<0.002			
4/26/2017			<0.002	<0.002	<0.002
6/7/2017			<0.002		
7/11/2017			<0.002		
8/9/2017	<0.002	<0.002			
8/10/2017			<0.002	<0.002	<0.002
3/29/2018	<0.002		<0.002	<0.002	<0.002
3/30/2018		<0.002			
6/14/2018	<0.002	<0.002	<0.002	<0.002	<0.002
10/4/2018	<0.002	<0.002	<0.002	<0.002	<0.002
2/26/2019		<0.002			
2/27/2019	<0.002			<0.002	
2/28/2019			<0.002		0.0025
4/2/2019			<0.002		
4/3/2019				<0.002	<0.002
4/4/2019	<0.002	<0.002			
9/18/2019	<0.002	<0.002	<0.002		
9/19/2019				<0.002	<0.002
Mean	0.002	0.002	0.002	0.002	0.002036
Std. Dev.	0	0	0	0	0.0001336
Upper Lim.	0.002	0.002	0.002	0.002	0.0025
Lower Lim.	0.002	0.002	0.002	0.002	0.002

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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)					<0.0005
5/19/2016		<0.0005	<0.0005	<0.0005		
7/19/2016						<0.0005
7/20/2016	0.00066 (J)	0.0025	0.0013 (J)	<0.0005		
9/14/2016	0.00095 (J)	<0.0005	0.00098 (J)	<0.0005		<0.0005
11/10/2016				<0.0005		<0.0005
11/11/2016	0.001 (J)	0.00052 (J)	0.0017 (J)			
1/24/2017						<0.0005
1/27/2017		0.00049 (J)	0.0022 (J)	<0.0005		
2/6/2017	0.00072 (J)					
2/8/2017					0.0051	
2/23/2017					0.014	
3/14/2017						<0.0005
3/15/2017	0.00062 (J)	0.00064 (J)	0.0016 (J)	<0.0005		
3/17/2017					0.013	
4/11/2017					0.016	
4/25/2017						<0.0005
4/26/2017	0.0014 (J)	0.001 (J)	0.00026 (J)	<0.0005	0.01	
5/17/2017					0.011	
6/7/2017					0.01	
7/11/2017					0.0085	
8/9/2017				0.0004 (J)		<0.0005
8/10/2017	<0.0005	0.0011 (J)	0.00049 (J)			
3/29/2018		<0.0005	0.0008 (J)	0.0008 (J)	0.015	
3/30/2018	0.0035					<0.0005
6/14/2018	0.0012 (J)	<0.0005	0.00067 (J)	0.00054 (J)	0.011	<0.0005
10/3/2018						<0.0005
10/4/2018	0.00086 (J)	<0.0005	0.00079 (J)	<0.0005	0.0055	
2/27/2019	0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049	<0.0005
4/3/2019		0.00081 (J)	0.00043 (J)	<0.0005	0.0056	
4/4/2019	0.0017 (J)					<0.0005
9/18/2019				<0.0005	0.005	<0.0005
9/19/2019	0.0023	<0.0005	0.00028 (J)			
Mean	0.00128	0.0008757	0.0009	0.0004907	0.009614	0.0005
Std. Dev.	0.0008509	0.0006587	0.000588	0.0001351	0.00395	0
Upper Lim.	0.001754	0.0011	0.001316	0.00054	0.01241	0.0005
Lower Lim.	0.0007057	0.00049	0.0004835	0.0004	0.006817	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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				<0.0005	<0.0005
7/19/2016	0.012				
7/20/2016		0.0018 (J)		<0.0005	<0.0005
9/14/2016	0.013	0.0014 (J)			<0.0005
9/15/2016				<0.0005	
11/10/2016	0.016	0.0016 (J)			
11/11/2016			<0.0005		
11/14/2016				<0.0005	
1/20/2017		0.0014 (J)			
1/24/2017	0.015				
2/6/2017			0.00058 (J)	<0.0005	
2/9/2017					0.00073 (J)
3/14/2017		0.0023 (J)			
3/15/2017	0.014		0.00045 (J)	<0.0005	<0.0005
4/11/2017			<0.0005		<0.0005
4/25/2017	0.014	0.0023 (J)			
4/26/2017			<0.0005	<0.0005	<0.0005
6/7/2017			<0.0005		
7/11/2017			<0.0005		
8/9/2017	0.016	0.0011 (J)			
8/10/2017			0.00049 (J)	<0.0005	<0.0005
3/29/2018	0.0092		<0.0005	0.00066 (J)	<0.0005
3/30/2018		0.0016 (J)			
6/14/2018	0.0035	0.00055 (J)	<0.0005	0.0011 (J)	<0.0005
10/4/2018	0.0078	0.00041 (J)	<0.0005	<0.0005	<0.0005
2/26/2019		0.00086 (J)			
2/27/2019	0.00084 (J)			0.0019 (J)	
2/28/2019			0.00019 (J)		<0.0005
4/2/2019			<0.0005		
4/3/2019				0.0037	<0.0005
4/4/2019	0.00077 (J)	<0.0005			
9/18/2019	0.00011 (J)	0.00018 (J)	0.00045 (J)		
9/19/2019				0.0028	<0.0005
Mean	0.009223	0.001318	0.0004757	0.001047	0.0005164
Std. Dev.	0.005934	0.0007468	8.742E-05	0.001026	6.147E-05
Upper Lim.	0.01343	0.001847	0.00058	0.0019	0.00073
Lower Lim.	0.005019	0.0007889	0.00045	0.0005	0.0005

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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)			
Mean	0.3083	0.3225	0.3853	0.6382	0.734	0.5373
Std. Dev.	0.2589	0.3632	0.4032	0.2713	0.343	0.3951
Upper Lim.	0.4917	0.5797	0.6709	0.8304	0.9346	0.751
Lower Lim.	0.1249	0.06523	0.09968	0.446	0.5056	0.2732

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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
Mean	1.668	0.3111	0.2921	1.559	0.2858
Std. Dev.	0.9186	0.4174	0.2362	0.6027	0.1778
Upper Lim.	2.318	0.6068	0.4594	1.985	0.4117
Lower Lim.	1.017	0.01542	0.1249	1.132	0.1599

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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	<0.2	0.11 (J)	0.34		
9/14/2016	0.17 (J)	<0.2	0.095 (J)	0.31		0.89
11/10/2016				0.26		0.88
11/11/2016	0.14 (J)	<0.2	<0.2			
1/24/2017						0.92
1/27/2017		<0.2	<0.2	0.28		
2/6/2017	0.15 (J)					
2/8/2017					<0.2	
2/23/2017					<0.2	
3/14/2017						0.77
3/15/2017	0.16 (J)	<0.2	<0.2	0.3		
3/17/2017					<0.2	
4/11/2017					<0.2	
4/25/2017						0.95
4/26/2017	0.17 (J)	<0.2	<0.2	0.33	<0.2	
5/17/2017					<0.2	
6/7/2017					<0.2	
7/11/2017					<0.2	
8/9/2017				0.32		0.91
8/10/2017	0.2	<0.2	0.11 (J)			
10/11/2017					<0.2	0.88
10/12/2017	0.14 (J)	<0.2	0.091 (J)	0.28		
3/29/2018		<0.2	0.089 (J)	0.27	<0.2	
3/30/2018	0.13 (J)					0.79
6/14/2018	0.15 (J)	<0.2	0.1 (J)	0.27	<0.2	0.79
10/3/2018						0.79
10/4/2018	0.18 (J)	<0.2	0.12 (J)	0.23	<0.2	
2/27/2019	0.21	0.047 (J)	0.06 (J)	0.25	<0.2	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)			
Mean	0.1664	0.1581	0.1248	0.2856	0.1789	0.8479
Std. Dev.	0.03252	0.07203	0.04921	0.04515	0.05582	0.06896
Upper Lim.	0.1884	0.2	0.2	0.3162	0.2	0.92
Lower Lim.	0.1444	0.047	0.089	0.255	0.048	0.78

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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	<0.2	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	<0.2	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
Mean	0.2052	0.1271	0.36	0.3152	1.479
Std. Dev.	0.2025	0.04077	0.04276	0.1222	0.1999
Upper Lim.	0.2484	0.1548	0.389	0.398	1.6
Lower Lim.	0.1003	0.09951	0.331	0.2324	1.3

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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					<0.001
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						<0.001
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	0.00055 (J)		<0.001
11/10/2016				0.00047 (J)		<0.001
11/11/2016	<0.001	<0.001	<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
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
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	
8/9/2017				<0.001		<0.001
8/10/2017	<0.001	<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)	<0.001	0.00068 (J)	<0.001	<0.001
4/3/2019		<0.001	<0.001	0.00047 (J)	<0.001	
4/4/2019	<0.001					<0.001
9/18/2019				0.00045 (J)	<0.001	<0.001
9/19/2019	0.00041 (J)	<0.001	<0.001			
Mean	0.0008867	0.000965	0.001	0.0008017	0.001	0.001
Std. Dev.	0.0002675	0.0001212	0	0.0002518	0	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00041	0.00058	0.001	0.00047	0.001	0.001

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.001	<0.001			
5/19/2016				<0.001	<0.001
7/19/2016	<0.001				
7/20/2016		<0.001		<0.001	<0.001
9/14/2016	<0.001	<0.001			<0.001
9/15/2016				<0.001	
11/10/2016	<0.001	<0.001			
11/11/2016			<0.001		
11/14/2016				<0.001	
1/20/2017		<0.001			
1/24/2017	<0.001				
2/6/2017			<0.001	<0.001	
2/9/2017					<0.001
3/14/2017		<0.001			
3/15/2017	<0.001		<0.001	<0.001	<0.001
4/11/2017			<0.001		<0.001
4/25/2017	<0.001	<0.001			
4/26/2017			<0.001	<0.001	<0.001
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017	<0.001	<0.001			
8/10/2017			<0.001	<0.001	<0.001
3/29/2018	<0.001		<0.001	<0.001	<0.001
3/30/2018		<0.001			
2/26/2019		0.00033 (J)			
2/27/2019	0.00014 (J)			0.00017 (J)	
2/28/2019			<0.001		0.00014 (J)
4/2/2019			<0.001		
4/3/2019				<0.001	<0.001
4/4/2019	<0.001	<0.001			
9/18/2019	<0.001	<0.001	<0.001		
9/19/2019				<0.001	<0.001
Mean	0.0009283	0.0009442	0.001	0.0009308	0.0009283
Std. Dev.	0.0002483	0.0001934	0	0.0002396	0.0002483
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00014	0.00033	0.001	0.00017	0.00014

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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			
Mean	0.01394	0.004236	0.006557	0.004307	0.0039	0.005793
Std. Dev.	0.007154	0.001525	0.00195	0.001211	0.001453	0.001067
Upper Lim.	0.019	0.005	0.007872	0.005	0.005	0.006549
Lower Lim.	0.008869	0.0018	0.005576	0.0025	0.0018	0.005037

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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
Mean	0.009857	0.005279	0.05129	0.01847	0.03582
Std. Dev.	0.002949	0.0009415	0.00775	0.01185	0.00549
Upper Lim.	0.01195	0.005885	0.056	0.0215	0.03971
Lower Lim.	0.007768	0.004602	0.045	0.012	0.03193

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.005					0.0153
5/19/2016		<0.005	<0.005	0.00491 (J)		
7/19/2016						0.0093 (J)
7/20/2016	<0.005	<0.005	0.00095 (J)	0.0025 (J)		
9/14/2016	0.00091 (J)	<0.005	0.0009 (J)	0.0028 (J)		0.012 (J)
11/10/2016				0.0016 (J)		0.0065 (J)
11/11/2016	<0.005	<0.005	<0.005			
1/24/2017						0.0049 (J)
1/27/2017		<0.005	<0.005	0.0023 (J)		
2/6/2017	<0.005					
2/8/2017					<0.005	
2/23/2017					<0.005	
3/14/2017						0.0034 (J)
3/15/2017	<0.005	<0.005	<0.005	0.0022 (J)		
3/17/2017					<0.005	
4/11/2017					<0.005	
4/25/2017						0.004 (J)
4/26/2017	<0.005	<0.005	<0.005	0.0019 (J)	<0.005	
5/17/2017					<0.005	
6/7/2017					0.001 (J)	
7/11/2017					<0.005	
8/9/2017				0.0028 (J)		0.0042 (J)
8/10/2017	0.00093 (J)	0.0011 (J)	0.0046 (J)			
3/29/2018		<0.005	<0.005	0.0028 (J)	<0.005	
3/30/2018	<0.005					0.0049 (J)
6/14/2018	<0.005	<0.005	<0.005	0.0018 (J)	<0.005	0.0056 (J)
10/3/2018						0.0041 (J)
10/4/2018	<0.005	<0.005	<0.005	<0.005	<0.005	
2/27/2019	<0.005	<0.005	0.00063 (J)	0.0019 (J)	<0.005	0.0061
4/3/2019		<0.005	<0.005	<0.005	<0.005	
4/4/2019	<0.005					0.0039 (J)
9/18/2019				0.0021 (J)	<0.005	0.0052
9/19/2019	<0.005	<0.005	0.00073 (J)			
Mean	0.004417	0.004721	0.003772	0.002829	0.004714	0.006386
Std. Dev.	0.001482	0.001042	0.001953	0.001221	0.001069	0.003473
Upper Lim.	0.005	0.005	0.005	0.00491	0.005	0.007885
Lower Lim.	0.00093	0.0011	0.0009	0.0018	0.001	0.004194

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.005	0.00526 (J)			
5/19/2016				<0.005	0.00762 (J)
7/19/2016	<0.005				
7/20/2016		0.0066 (J)		<0.005	0.0084 (J)
9/14/2016	<0.005	0.0081 (J)			0.0071 (J)
9/15/2016				<0.005	
11/10/2016	<0.005	0.0076 (J)			
11/11/2016			<0.005		
11/14/2016				<0.005	
1/20/2017		0.0094 (J)			
1/24/2017	<0.005				
2/6/2017			0.001 (J)	<0.005	
2/9/2017					0.018
3/14/2017		0.0044 (J)			
3/15/2017	<0.005		<0.005	<0.005	0.0057 (J)
4/11/2017			<0.005		0.0047 (J)
4/25/2017	<0.005	0.0074 (J)			
4/26/2017			<0.005	<0.005	0.004 (J)
6/7/2017			0.0015 (J)		
7/11/2017			<0.005		
8/9/2017	<0.005	0.0066 (J)			
8/10/2017			0.0016 (J)	<0.005	0.0046 (J)
3/29/2018	<0.005		0.0012 (J)	<0.005	0.0048 (J)
3/30/2018		0.0024 (J)			
6/14/2018	<0.005	0.0026 (J)	0.0014 (J)	<0.005	0.0046 (J)
10/4/2018	<0.005	0.00085 (J)	<0.005	<0.005	0.003 (J)
2/26/2019		0.0032 (J)			
2/27/2019	<0.005			<0.005	
2/28/2019			0.0013 (J)		0.0053
4/2/2019			<0.005		
4/3/2019				<0.005	0.0026 (J)
4/4/2019	<0.005	0.002 (J)			
9/18/2019	<0.005	0.0026 (J)	0.0011 (J)		
9/19/2019				<0.005	0.0048 (J)
Mean	0.005	0.004929	0.00315	0.005	0.006087
Std. Dev.	0	0.002699	0.001925	0	0.003794
Upper Lim.	0.005	0.006841	0.005	0.005	0.007542
Lower Lim.	0.005	0.003017	0.0012	0.005	0.003858

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.005					<0.005
5/19/2016		<0.005	<0.005	<0.005		
7/19/2016						<0.005
7/20/2016	<0.005	<0.005	<0.005	<0.005		
9/14/2016	<0.005	<0.005	<0.005	<0.005		<0.005
11/10/2016				<0.005		<0.005
11/11/2016	<0.005	<0.005	<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
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
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	
8/9/2017				<0.005		<0.005
8/10/2017	0.00031 (J)	0.00049 (J)	0.0021			
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	0.0005 (J)
10/3/2018						<0.005
10/4/2018	<0.005	<0.005	<0.005	<0.005	<0.005	
2/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<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
9/19/2019	<0.005	<0.005	<0.005			
Mean	0.004665	0.004678	0.004793	0.005	0.004664	0.004679
Std. Dev.	0.001253	0.001205	0.0007751	0	0.001256	0.001203
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00031	0.00049	0.0021	0.005	0.0003	0.0005

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	0.00735	<0.005			
5/19/2016				0.00518	0.00228
7/19/2016	0.0075				
7/20/2016		<0.005		0.0038	0.0016
9/14/2016	0.0091	<0.005			0.0024
9/15/2016				0.0034	
11/10/2016	0.0056	<0.005			
11/11/2016			<0.005		
11/14/2016				0.0033	
1/20/2017		<0.005			
1/24/2017	0.012				
2/6/2017			<0.005	0.0033	
2/9/2017					0.0023
3/14/2017		<0.005			
3/15/2017	0.012		<0.005	0.003	0.0031
4/11/2017			<0.005		0.0023
4/25/2017	0.013	<0.005			
4/26/2017			<0.005	0.0032	0.0019
6/7/2017			<0.005		
7/11/2017			<0.005		
8/9/2017	0.016	<0.005			
8/10/2017			0.00036 (J)	0.0031	0.0021
3/29/2018	0.016		<0.005	0.0034	0.0021
3/30/2018		<0.005			
6/14/2018	0.012	<0.005	<0.005	0.0031	0.0025
10/4/2018	0.013	<0.005	<0.005	0.0033	0.002
2/26/2019		<0.005			
2/27/2019	0.0081			0.0035	
2/28/2019			<0.005		0.0027
4/2/2019			<0.005		
4/3/2019				0.0031	0.0019
4/4/2019	0.0091	<0.005			
9/18/2019	0.0044 (J)	<0.005	<0.005		
9/19/2019				0.0021 (J)	0.0026 (J)
Mean	0.01037	0.005	0.004669	0.003341	0.00227
Std. Dev.	0.003609	0	0.00124	0.0006493	0.0003831
Upper Lim.	0.01292	0.005	0.005	0.0035	0.002541
Lower Lim.	0.007811	0.005	0.00036	0.003	0.001999

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

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					<0.001
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						<0.001
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	<0.001		<0.001
11/10/2016				<0.001		<0.001
11/11/2016	<0.001	<0.001	<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
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
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	
8/9/2017				<0.001		<0.001
8/10/2017	<0.001	<0.001	<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	0.00014 (J)	<0.001
10/3/2018						<0.001
10/4/2018	<0.001	<0.001	<0.001	<0.001	0.00013 (J)	
2/27/2019	<0.001	<0.001	<0.001	<0.001	0.00016 (J)	<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
9/19/2019	<0.001	<0.001	<0.001			
Mean	0.0009346	0.001	0.001	0.001	0.00057	0.001
Std. Dev.	0.0002445	0	0	0	0.0004467	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	8.5E-05	0.001	0.001	0.001	0.00012	0.001

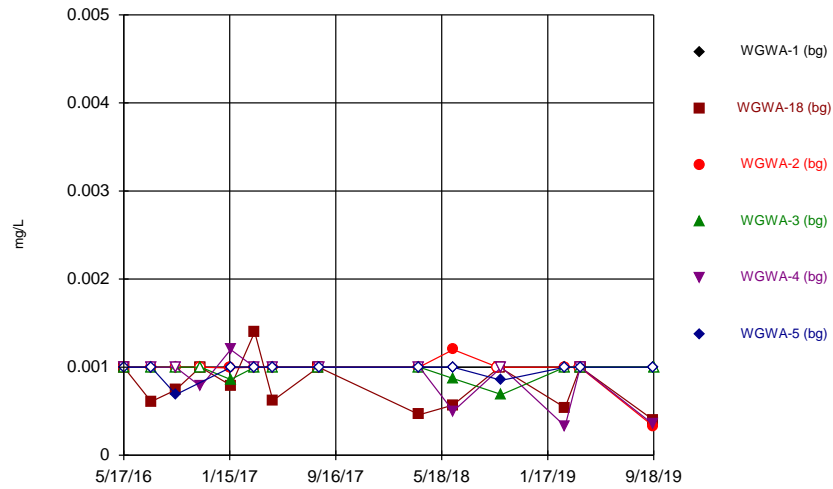
Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/14/2019 2:10 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

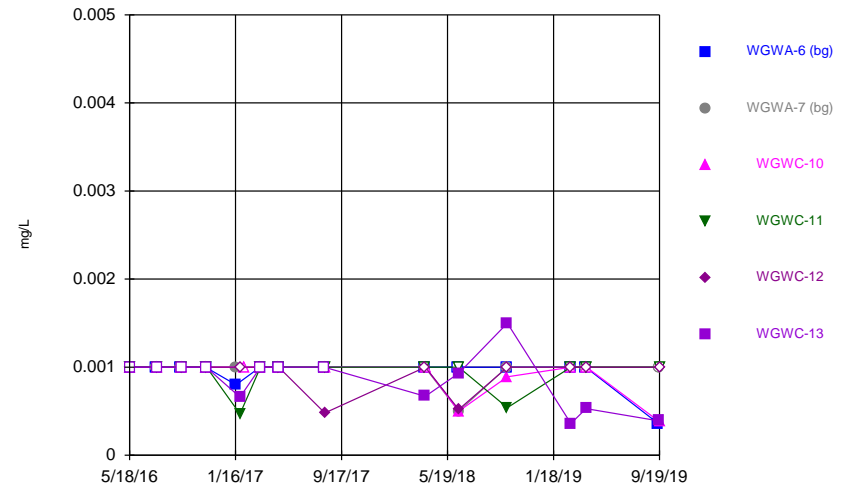
	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.001	<0.001			
5/19/2016				<0.001	<0.001
7/19/2016	8.5E-05 (J)				
7/20/2016		<0.001		<0.001	<0.001
9/14/2016	0.00017 (J)	<0.001			<0.001
9/15/2016				<0.001	
11/10/2016	0.00017 (J)	<0.001			
11/11/2016			<0.001		
11/14/2016				<0.001	
1/20/2017		<0.001			
1/24/2017	0.00023 (J)				
2/6/2017			<0.001	<0.001	
2/9/2017					<0.001
3/14/2017		<0.001			
3/15/2017	0.00021 (J)		<0.001	<0.001	<0.001
4/11/2017			<0.001		<0.001
4/25/2017	0.00024 (J)	<0.001			
4/26/2017			<0.001	<0.001	<0.001
6/7/2017			<0.001		
7/11/2017			<0.001		
8/9/2017	0.0002 (J)	<0.001			
8/10/2017			<0.001	<0.001	<0.001
3/29/2018	0.00019 (J)		<0.001	<0.001	<0.001
3/30/2018		<0.001			
6/14/2018	0.00017 (J)	<0.001	<0.001	<0.001	<0.001
10/4/2018	0.00015 (J)	<0.001	<0.001	<0.001	<0.001
2/26/2019		<0.001			
2/27/2019	0.00015 (J)			<0.001	
2/28/2019			<0.001		<0.001
4/2/2019			<0.001		
4/3/2019				<0.001	<0.001
4/4/2019	9.5E-05 (J)	<0.001			
9/18/2019	<0.001	<0.001	<0.001		
9/19/2019				<0.001	<0.001
Mean	0.00029	0.001	0.001	0.001	0.001
Std. Dev.	0.000304	0	0	0	0
Upper Lim.	0.00024	0.001	0.001	0.001	0.001
Lower Lim.	9.5E-05	0.001	0.001	0.001	0.001

Arsenic



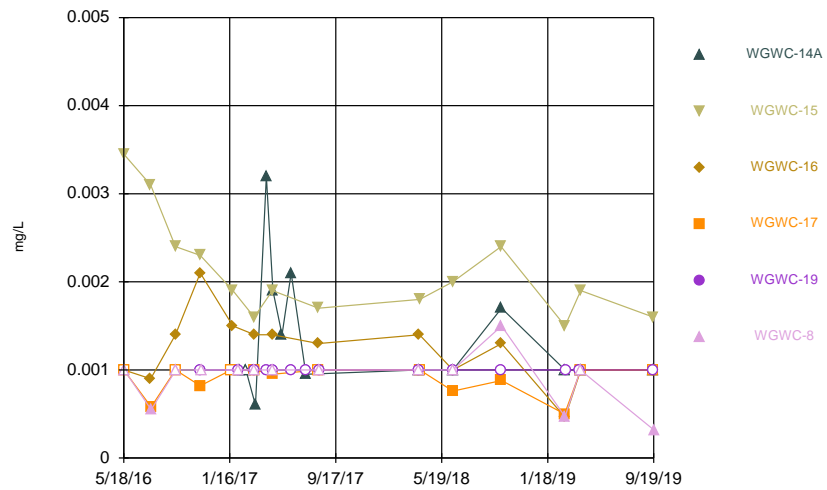
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Arsenic



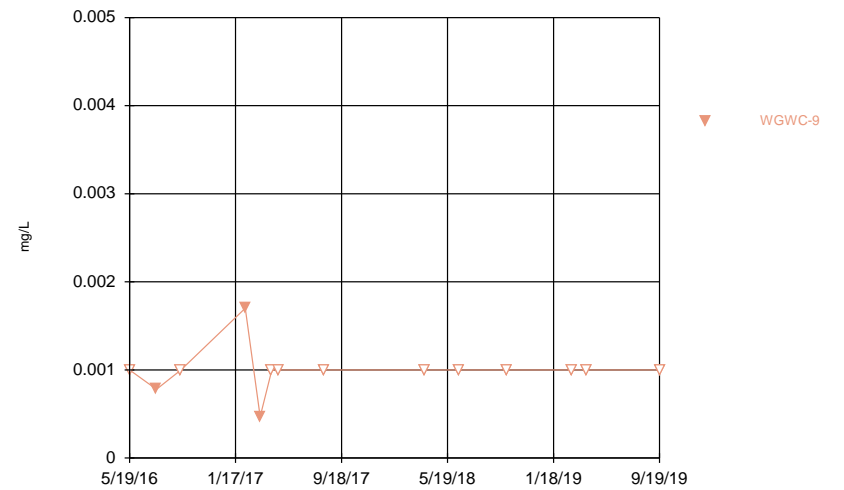
Time Series Analysis Run 11/13/2019 2:05 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Arsenic



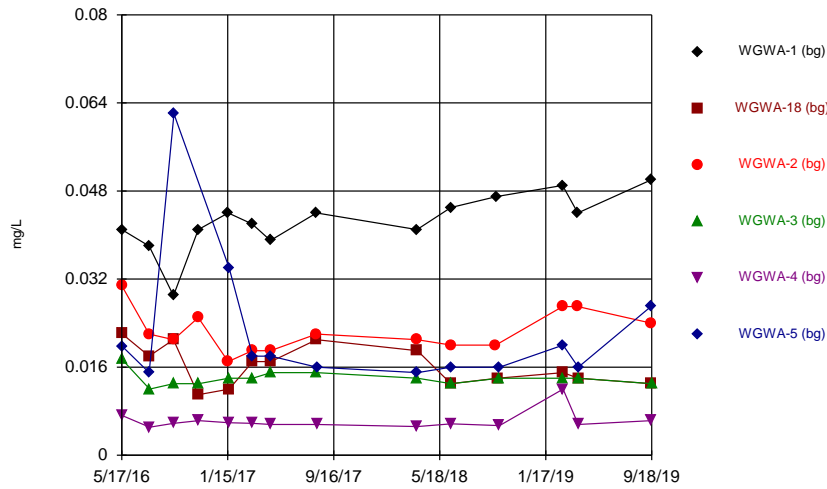
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Arsenic



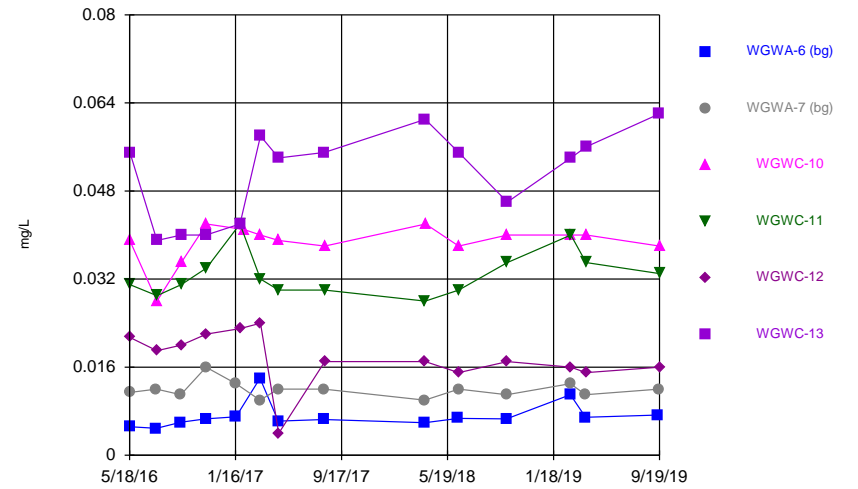
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Barium



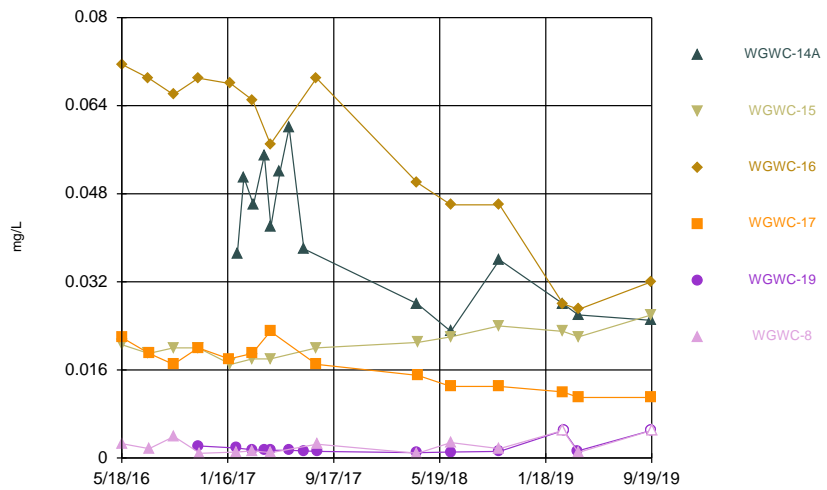
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Barium



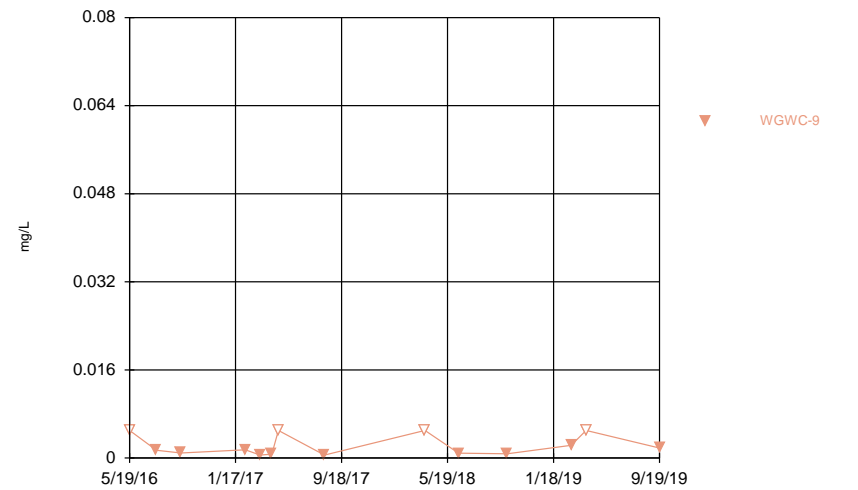
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Barium



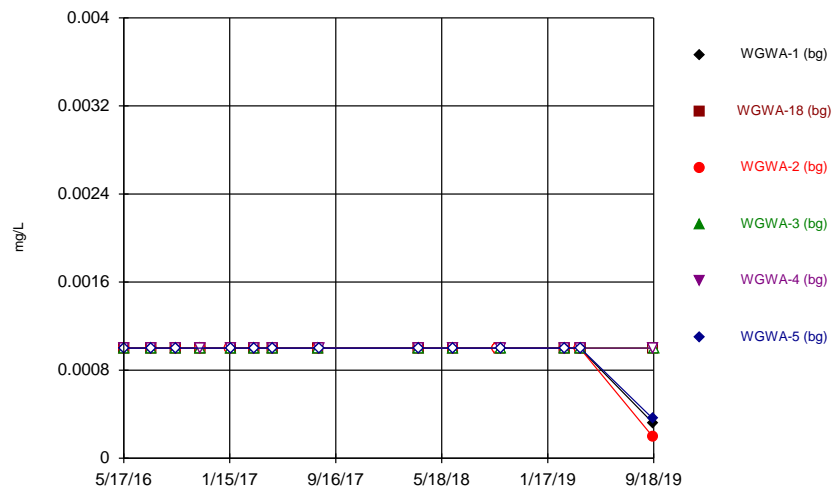
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Barium



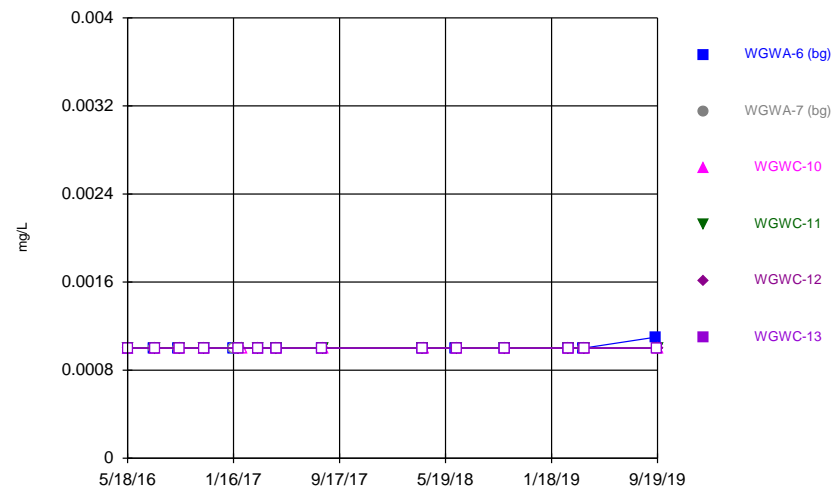
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Beryllium



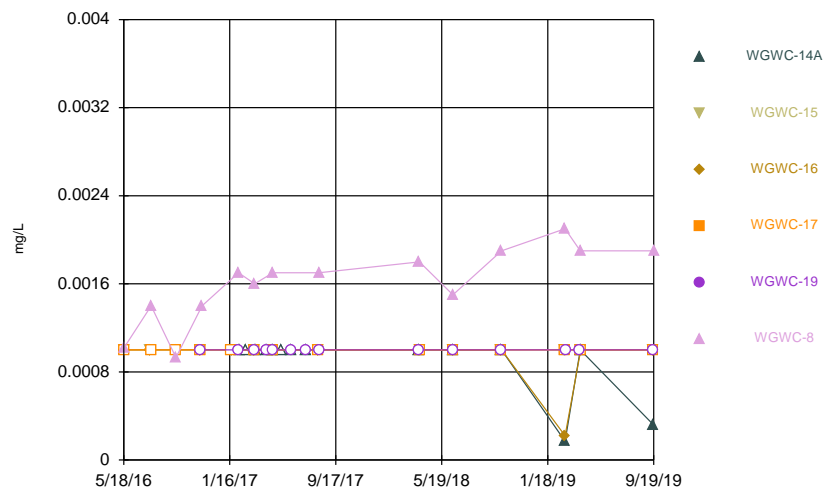
Time Series Analysis Run 11/13/2019 2:05 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Beryllium



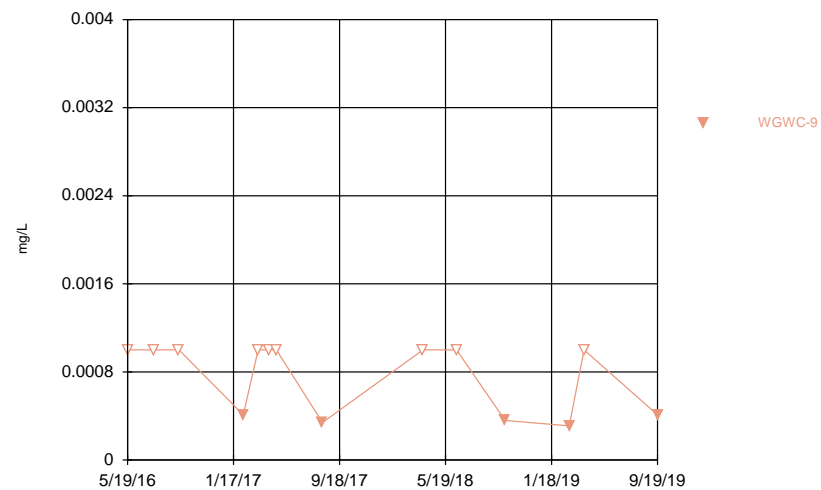
Time Series Analysis Run 11/13/2019 2:05 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Beryllium



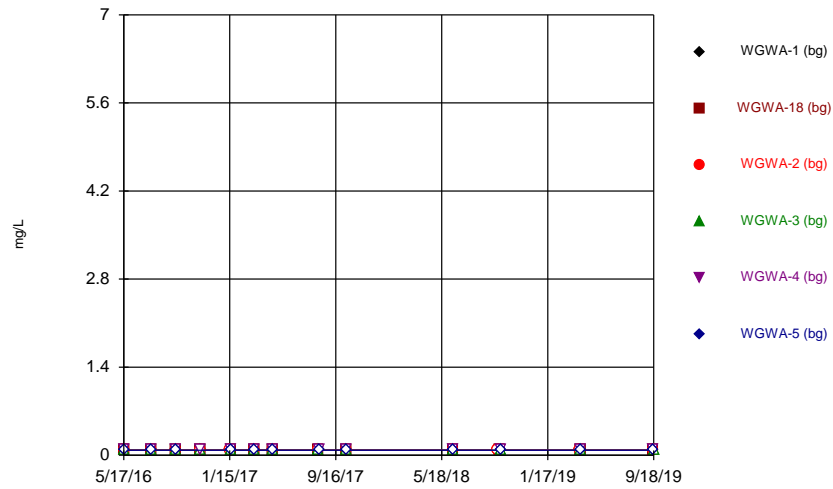
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Beryllium



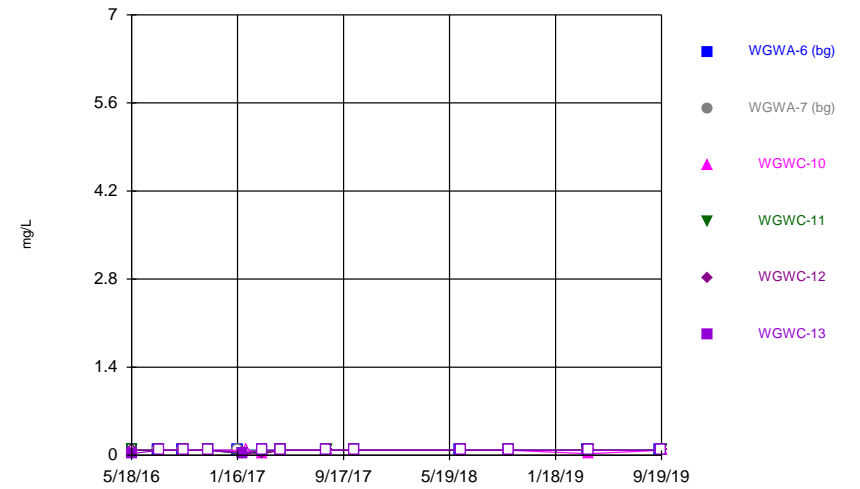
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Boron



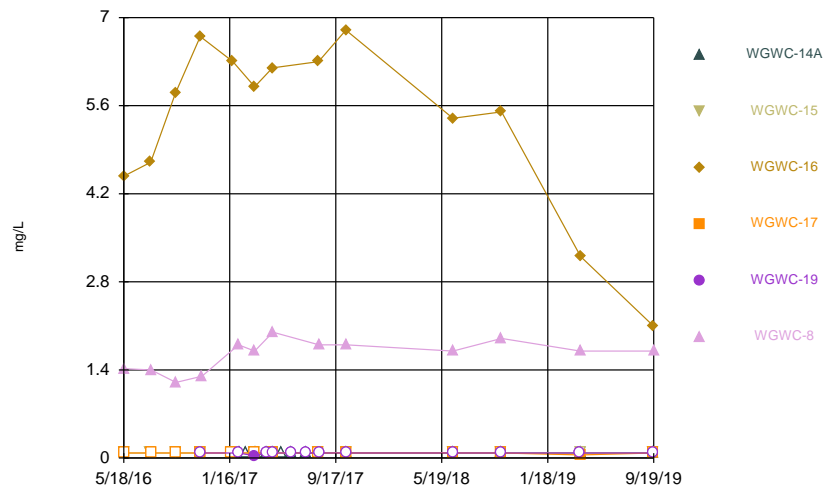
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Boron



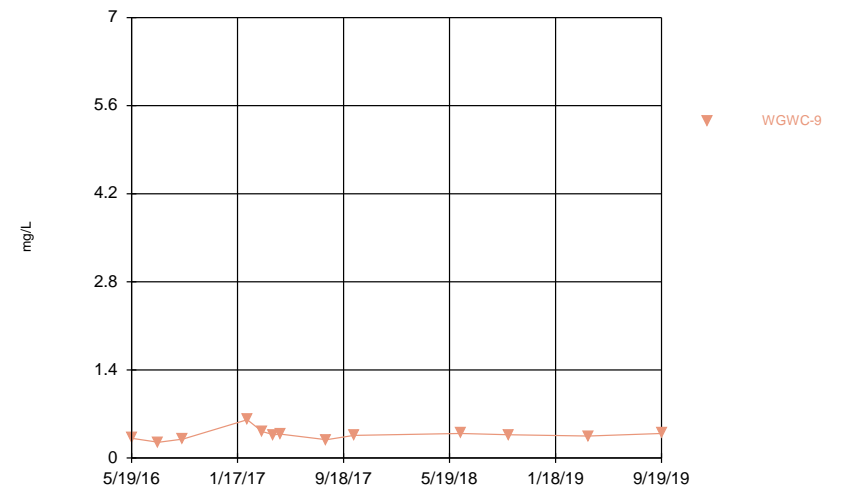
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Boron



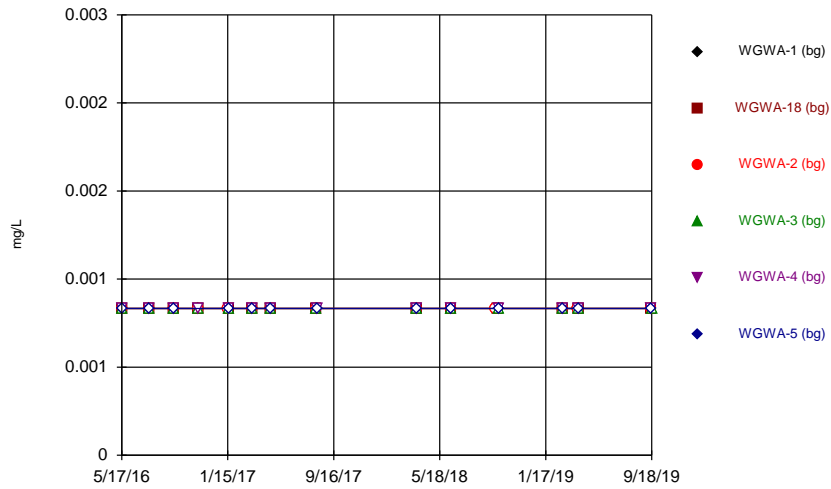
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Boron



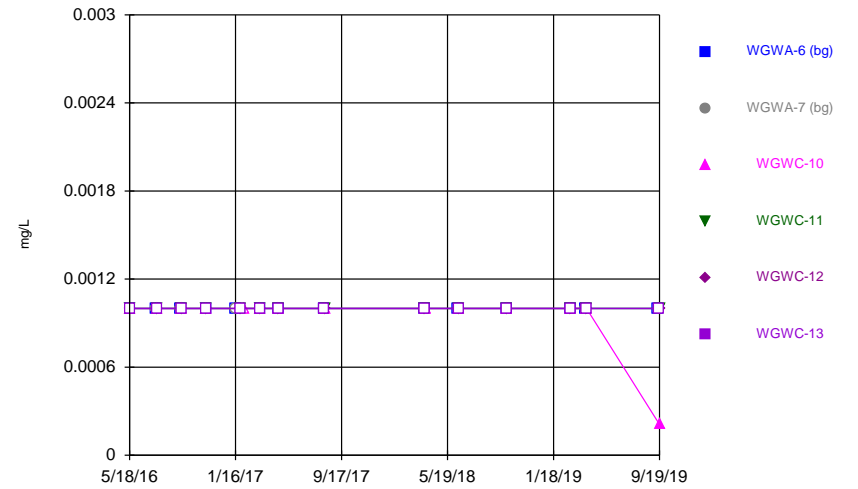
Time Series Analysis Run 11/13/2019 2:05 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Cadmium



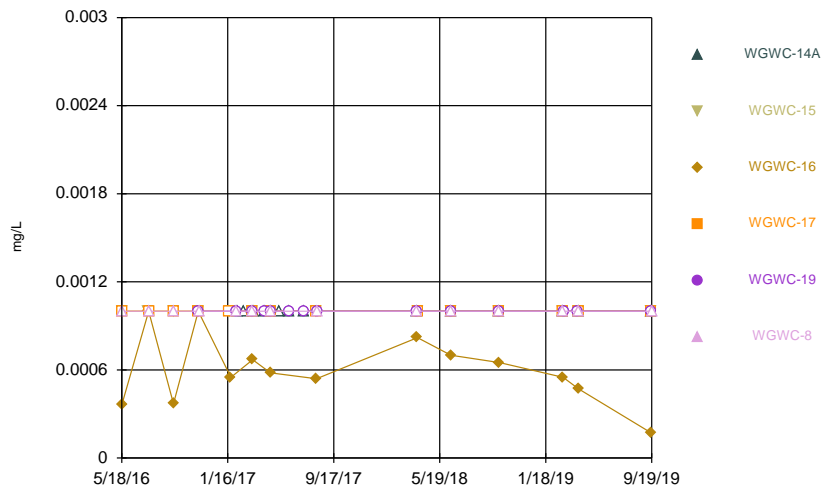
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Cadmium



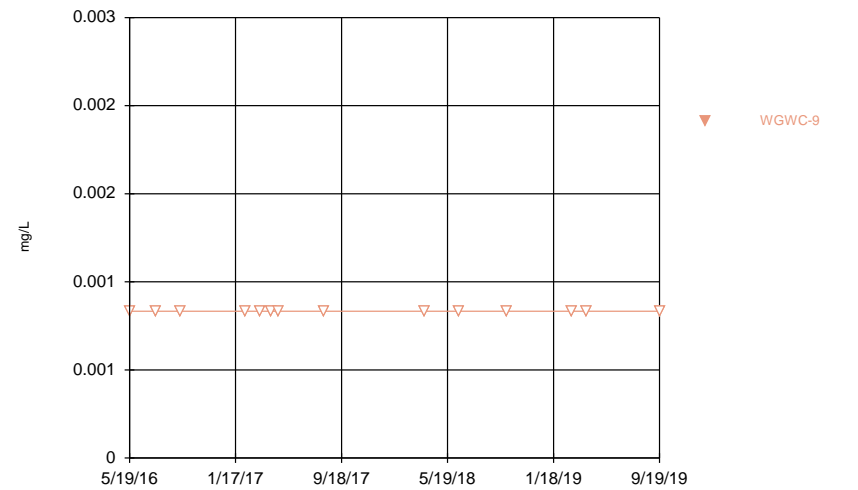
Time Series Analysis Run 11/13/2019 2:05 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Cadmium



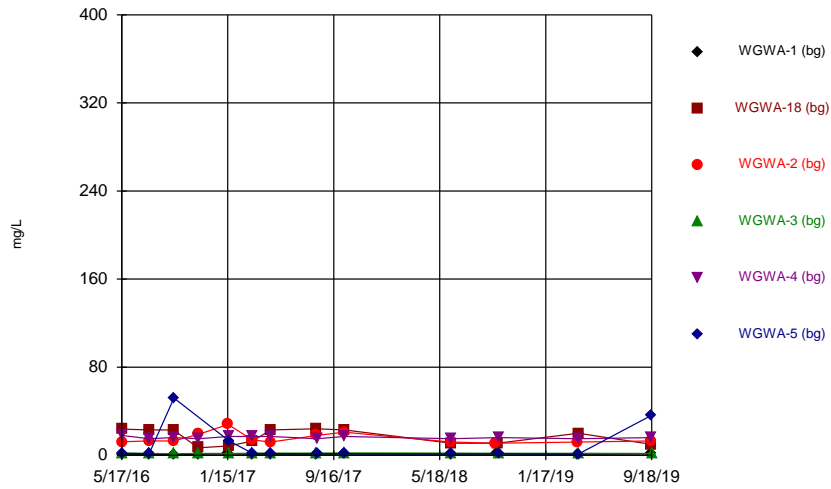
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Cadmium



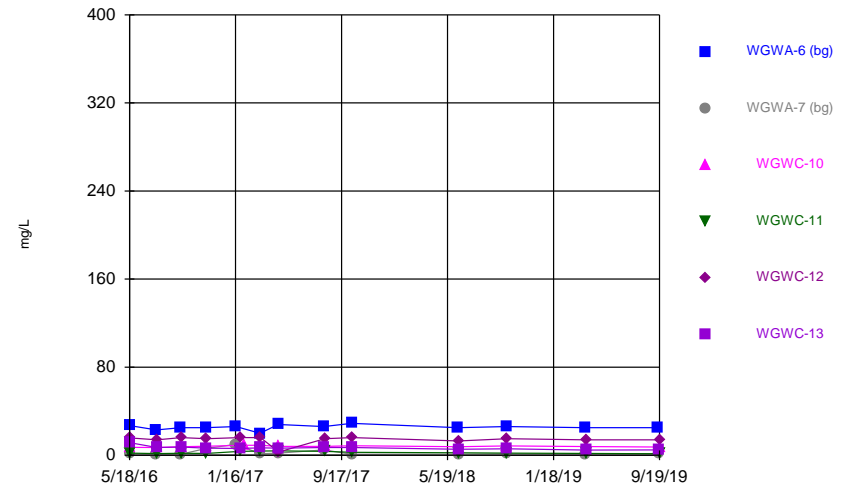
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Calcium



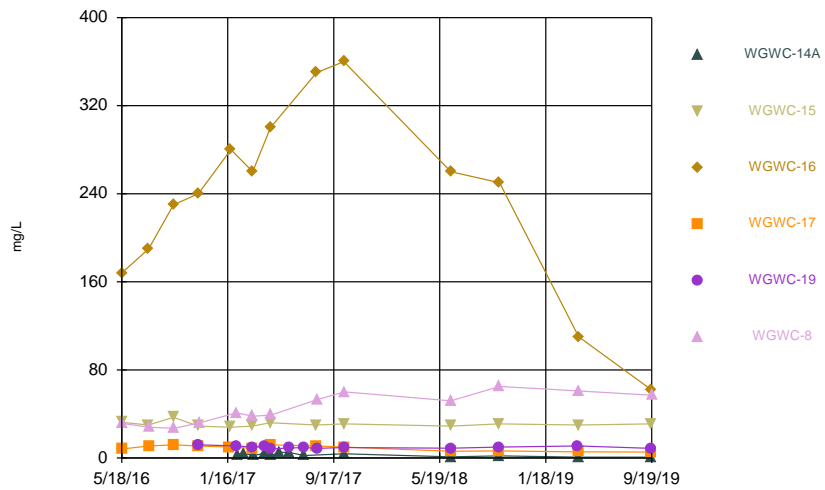
Time Series Analysis Run 11/13/2019 2:06 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Calcium



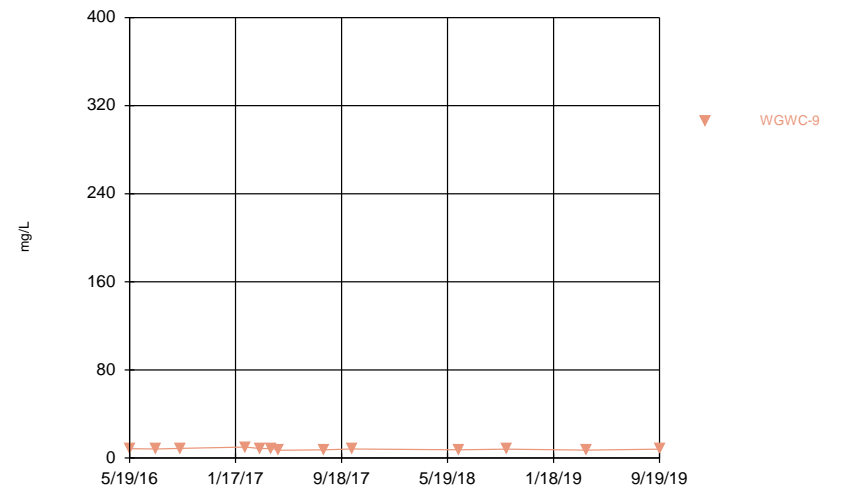
Time Series Analysis Run 11/13/2019 2:06 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Calcium



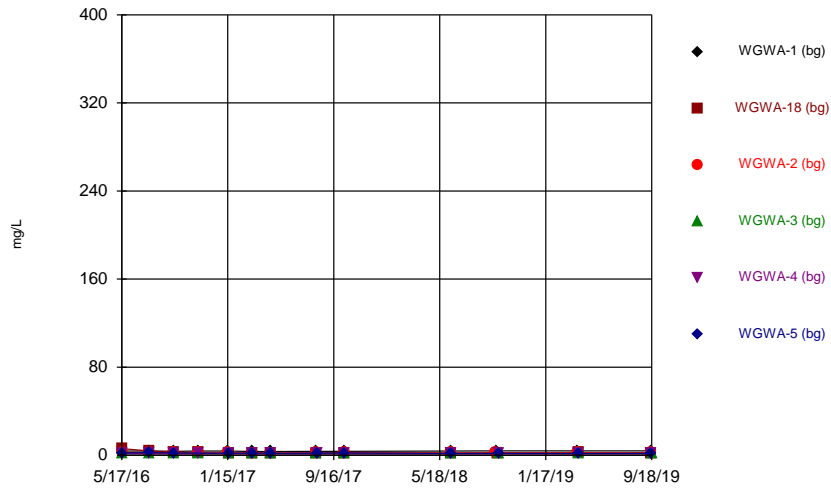
Time Series Analysis Run 11/13/2019 2:06 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Calcium



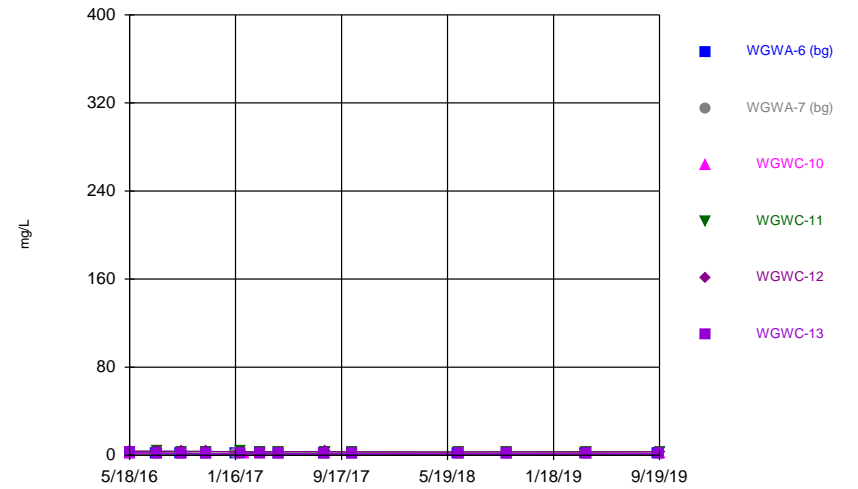
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Chloride



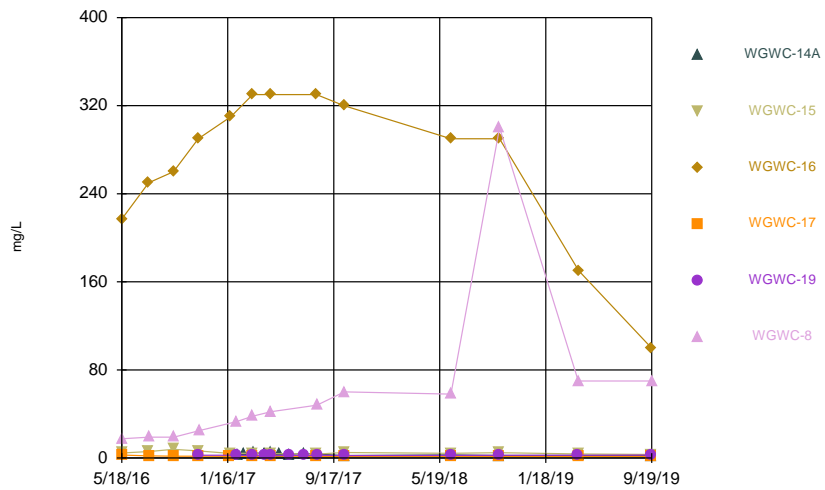
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Chloride



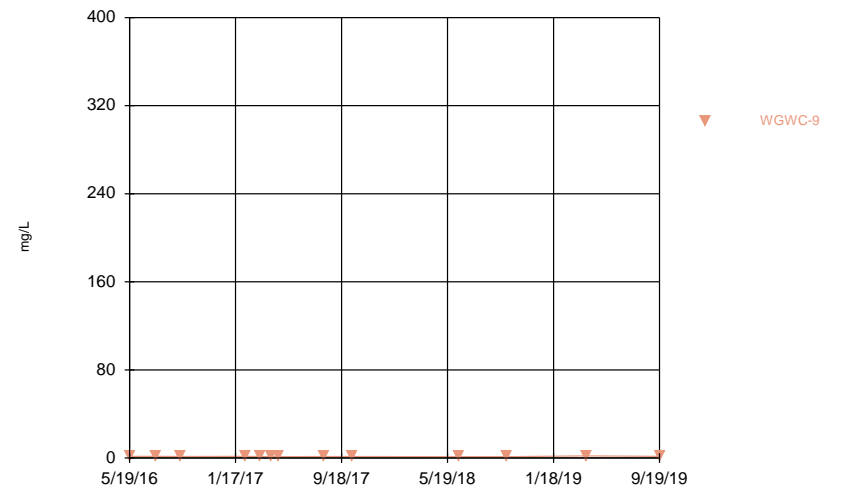
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Chloride



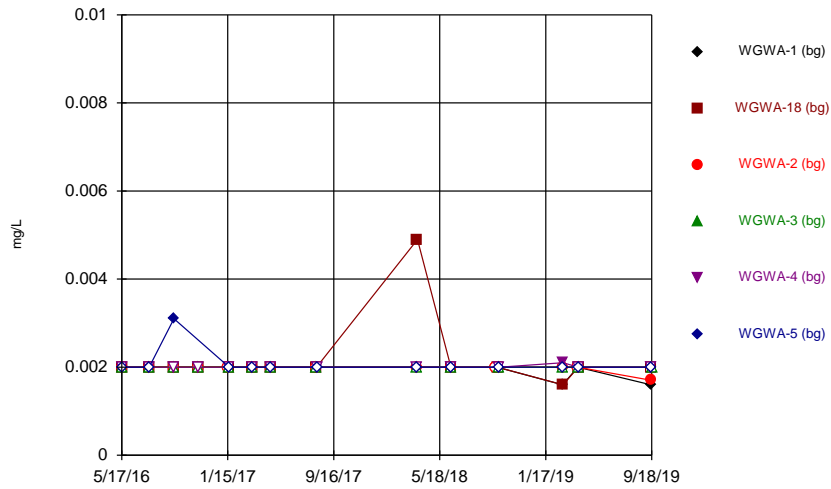
Time Series Analysis Run 11/13/2019 2:06 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Chloride



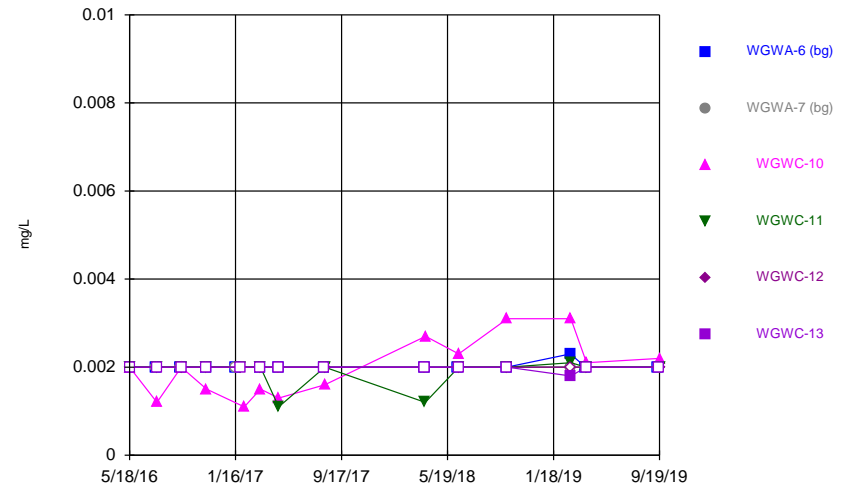
Time Series Analysis Run 11/13/2019 2:06 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Chromium



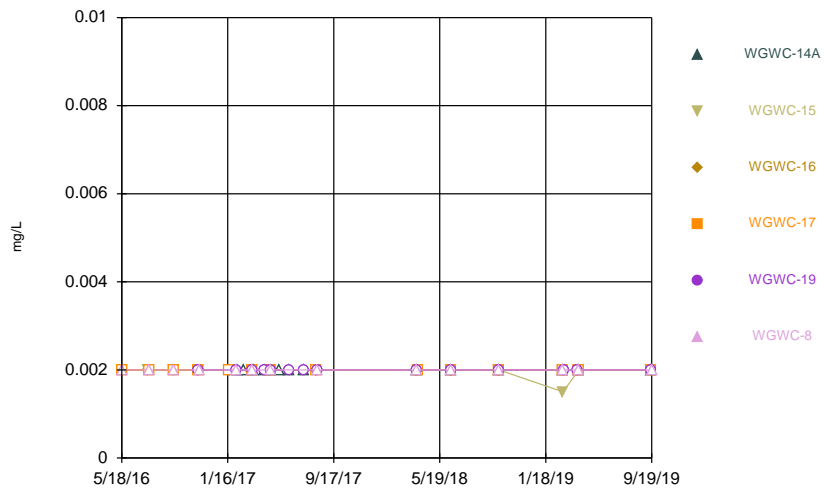
Time Series Analysis Run 11/13/2019 2:06 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Chromium



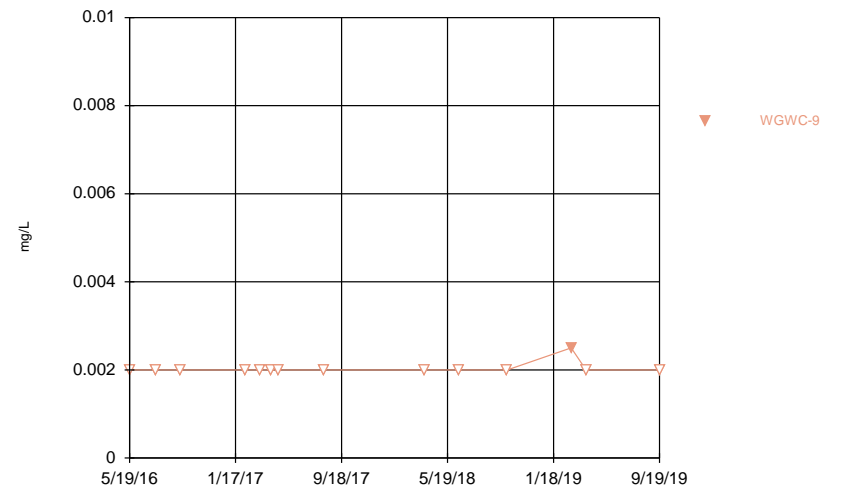
Time Series Analysis Run 11/13/2019 2:06 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Chromium



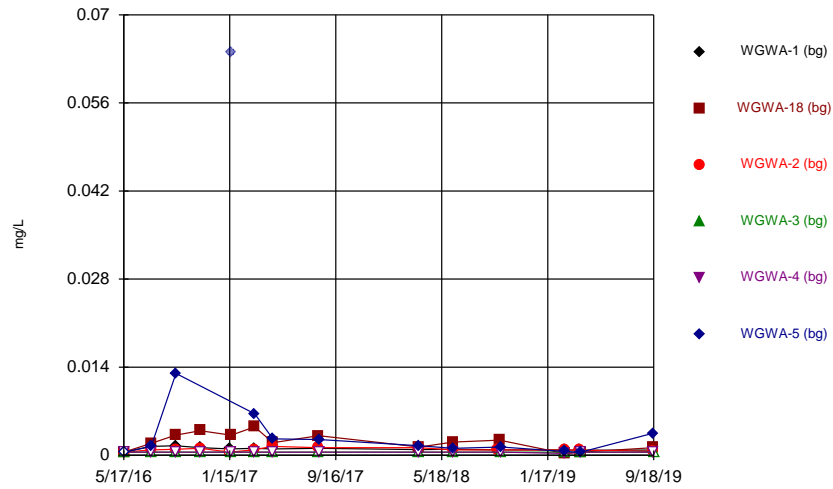
Time Series Analysis Run 11/13/2019 2:06 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Chromium



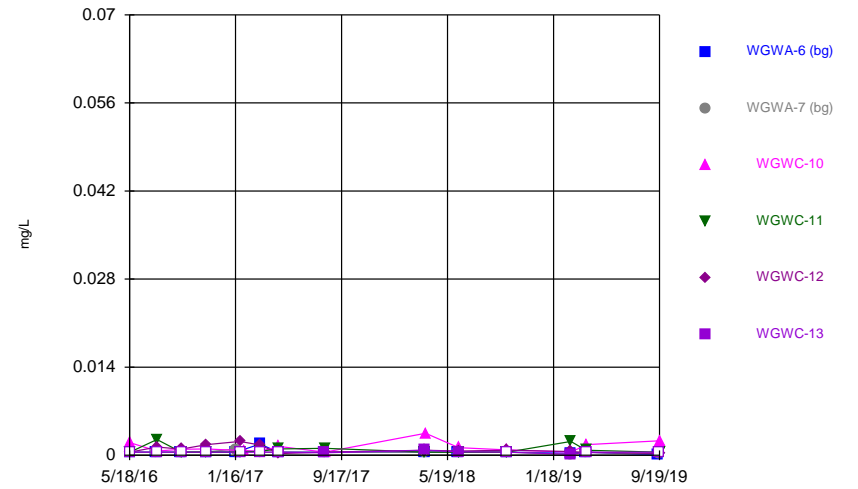
Time Series Analysis Run 11/13/2019 2:06 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Cobalt



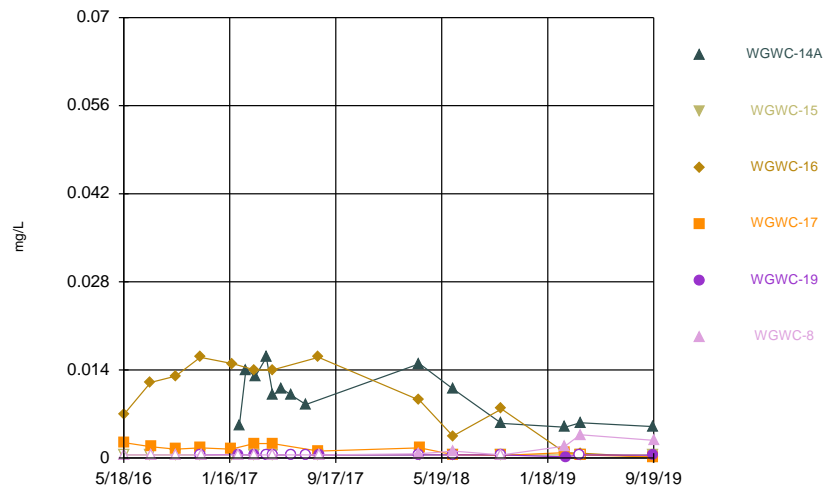
Time Series Analysis Run 11/13/2019 2:06 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Cobalt



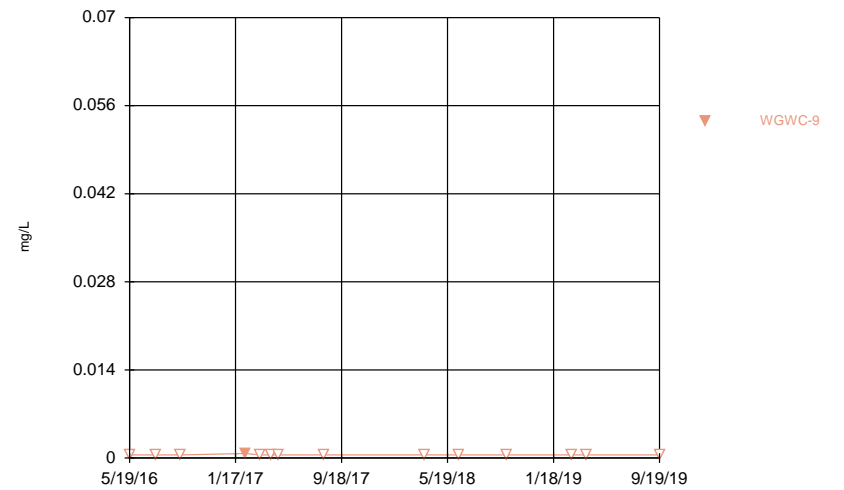
Time Series Analysis Run 11/13/2019 2:06 PM View: Time Series
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Cobalt



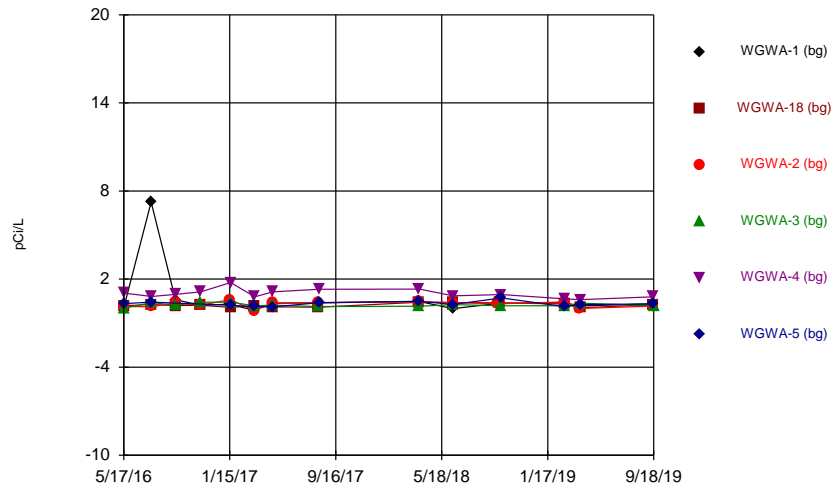
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Cobalt



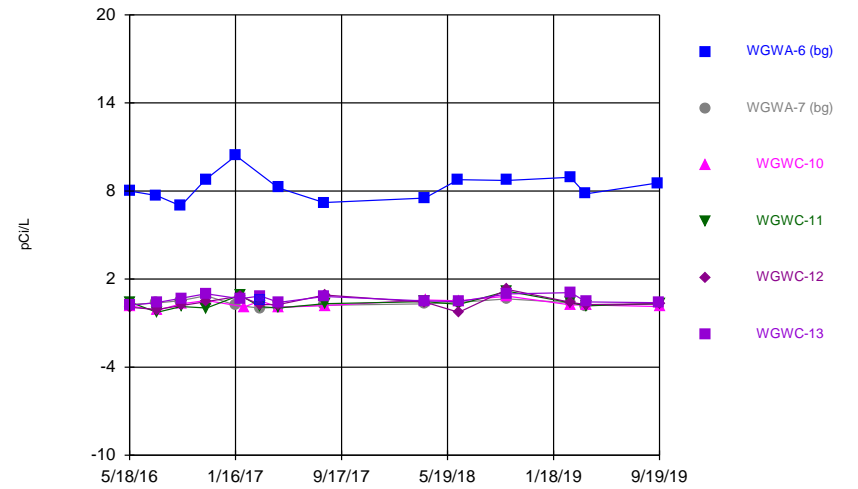
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Combined Radium 226 + 228



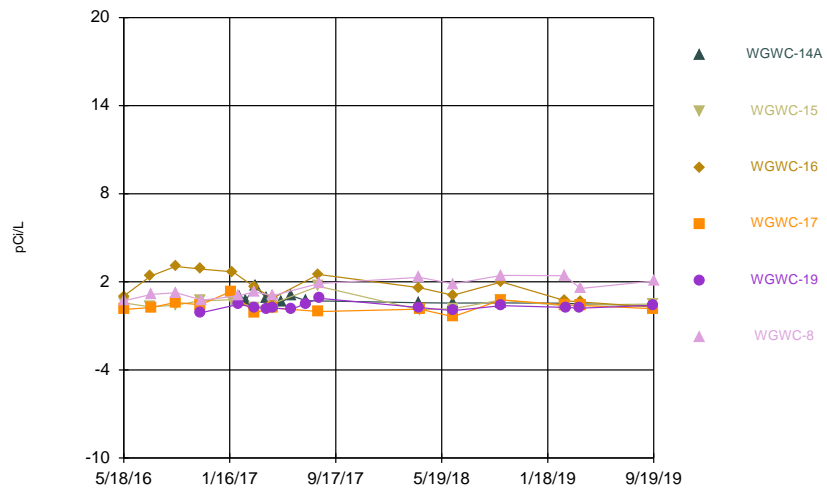
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Combined Radium 226 + 228



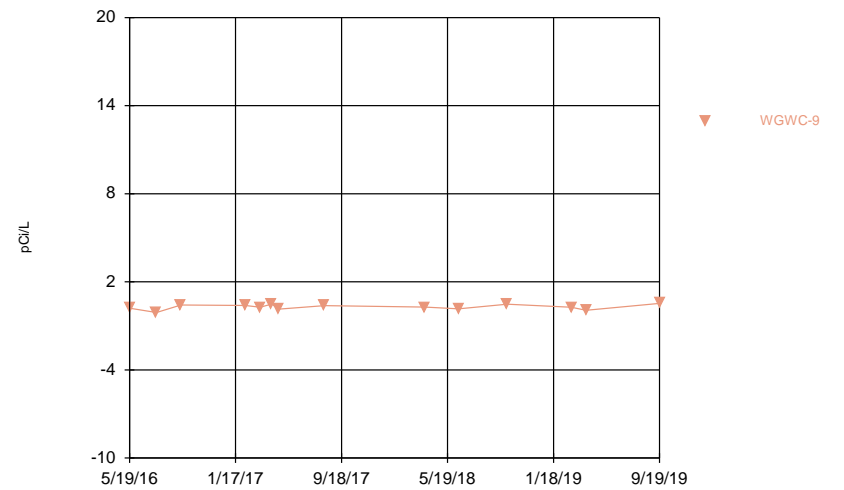
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Combined Radium 226 + 228



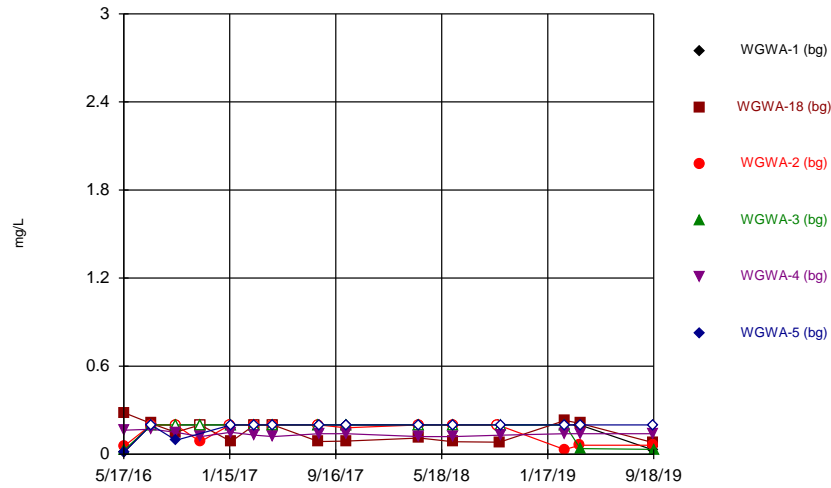
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Combined Radium 226 + 228



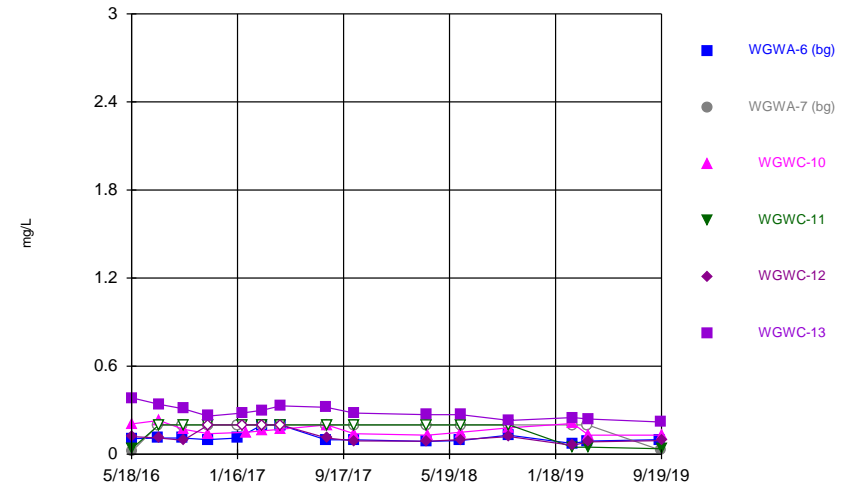
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Fluoride



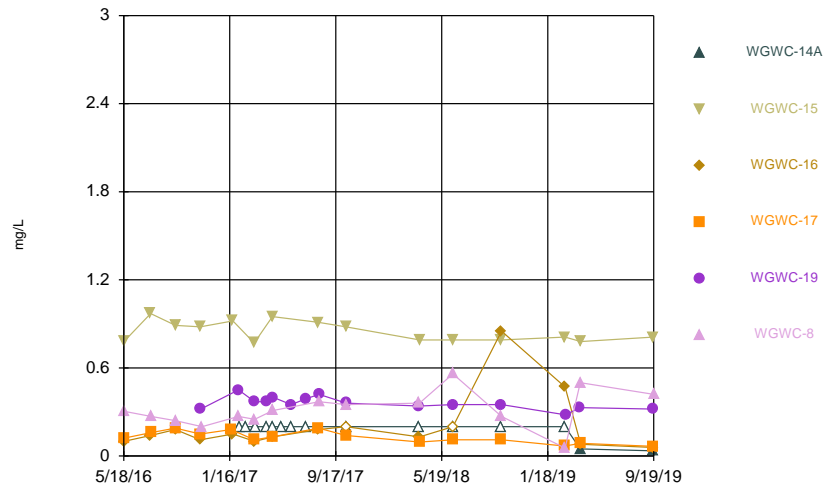
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Fluoride



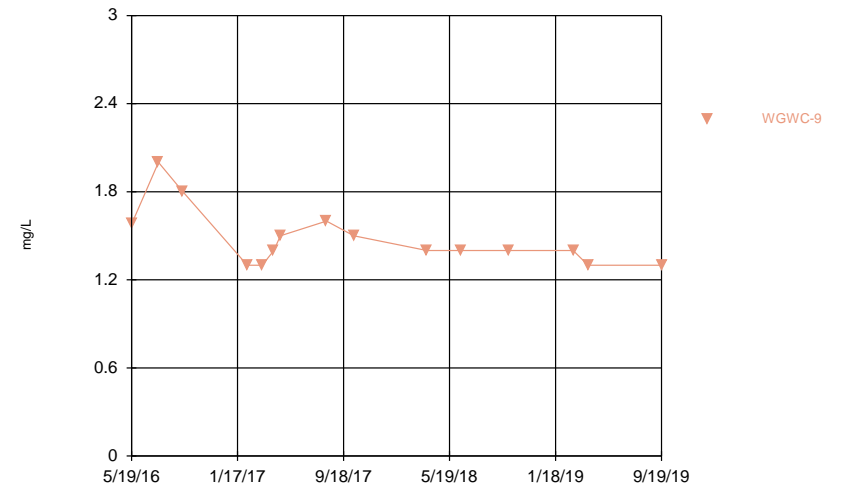
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Fluoride



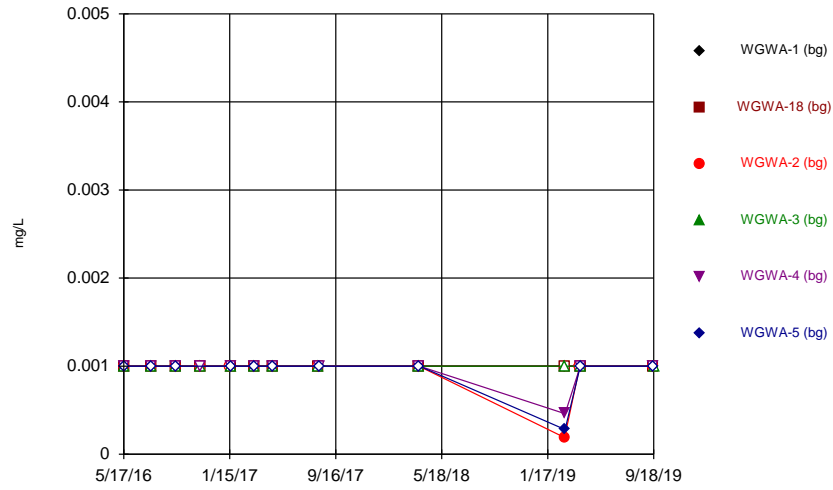
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Fluoride



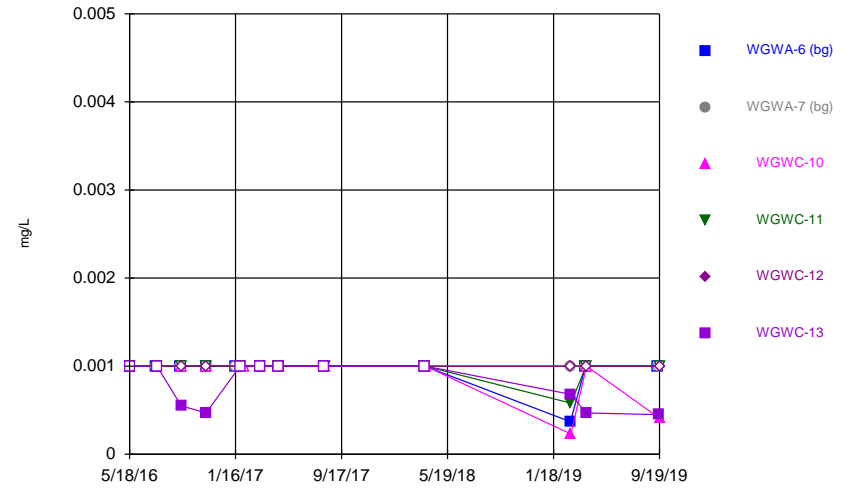
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Lead



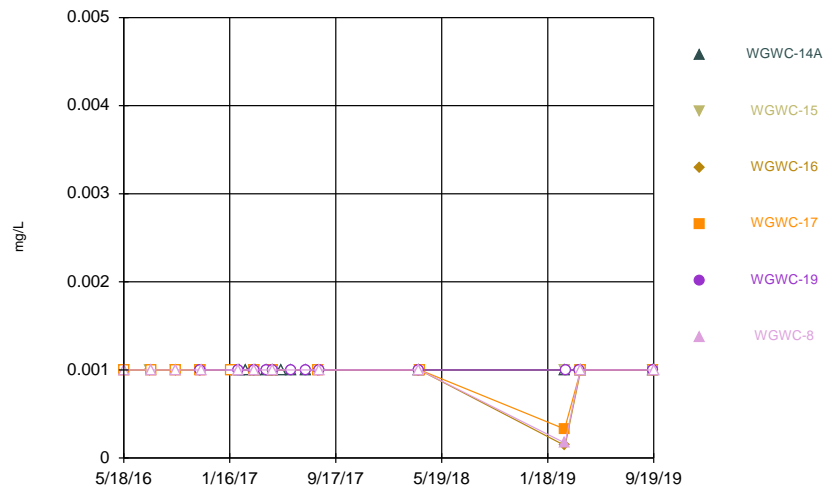
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Lead



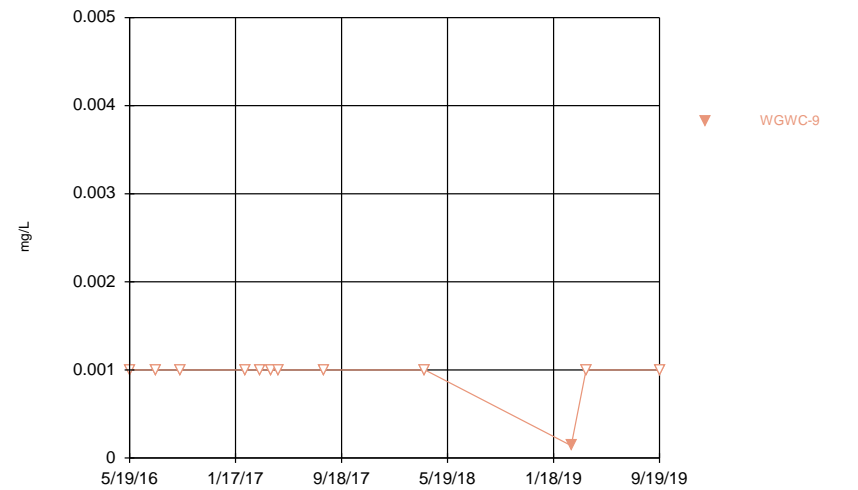
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Lead



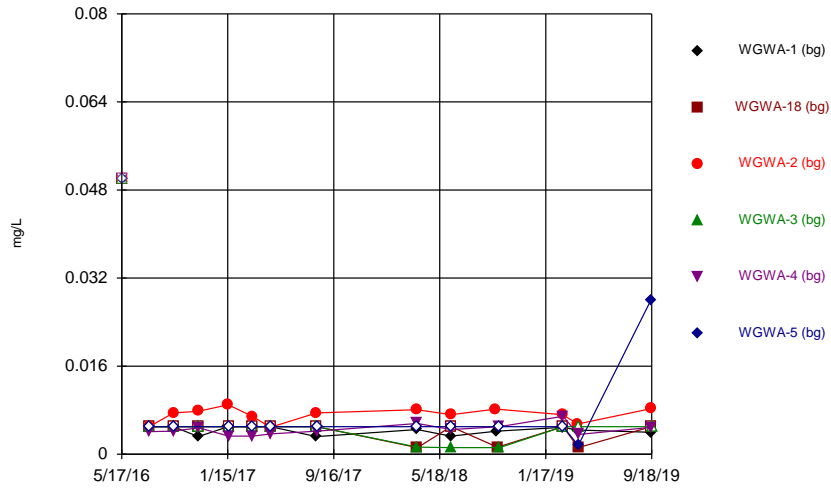
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Lead



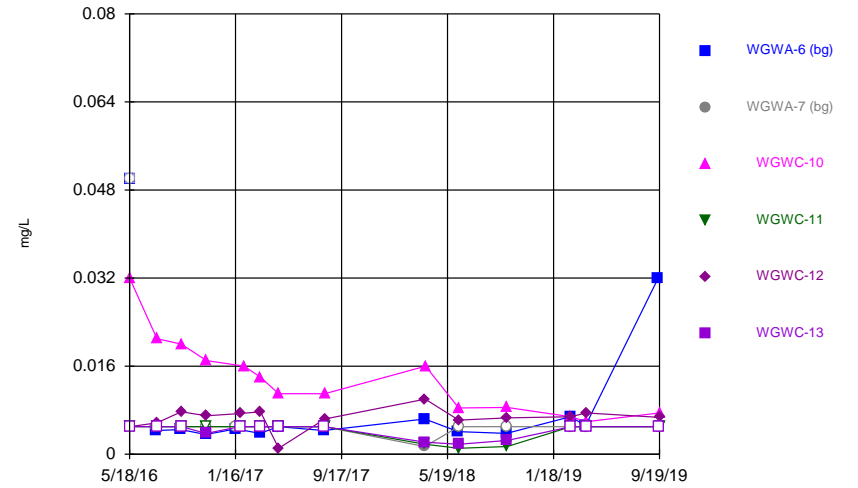
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Lithium



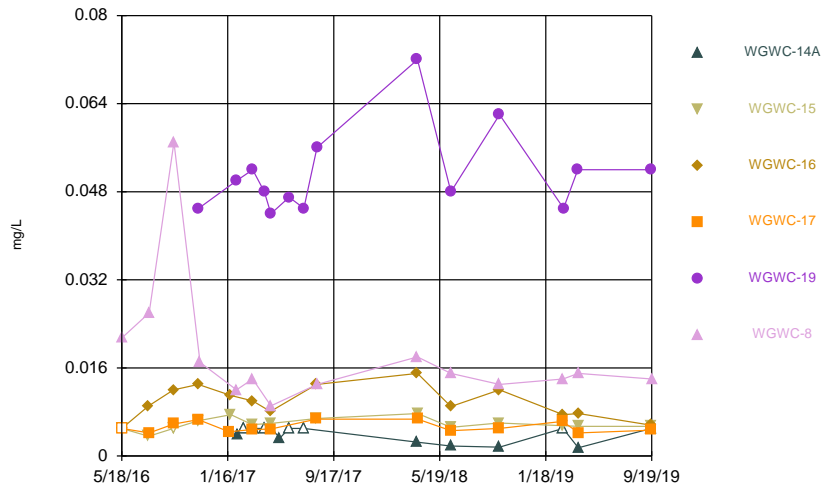
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Lithium



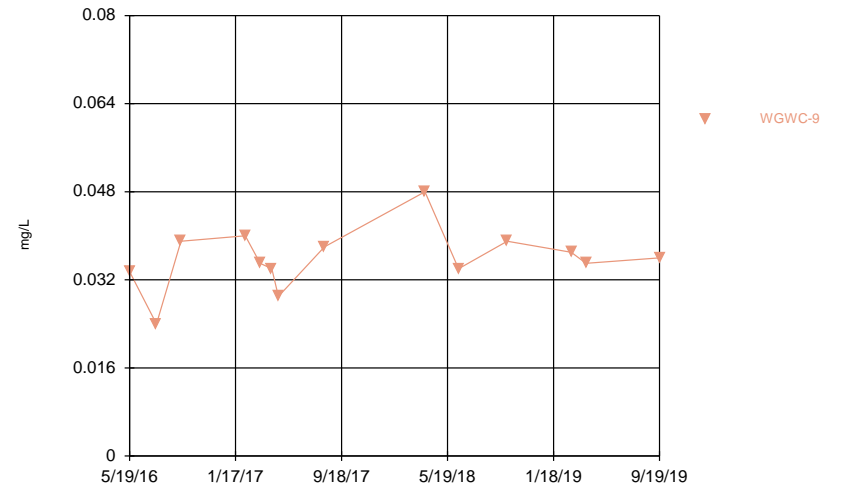
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Lithium



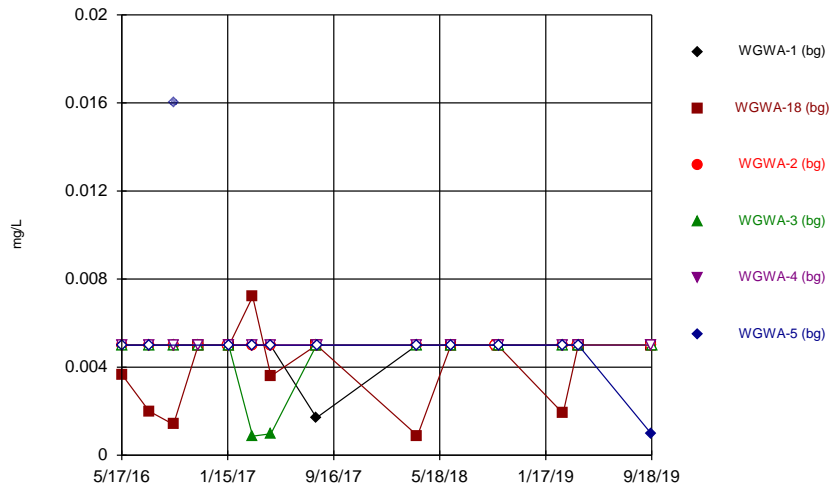
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Lithium



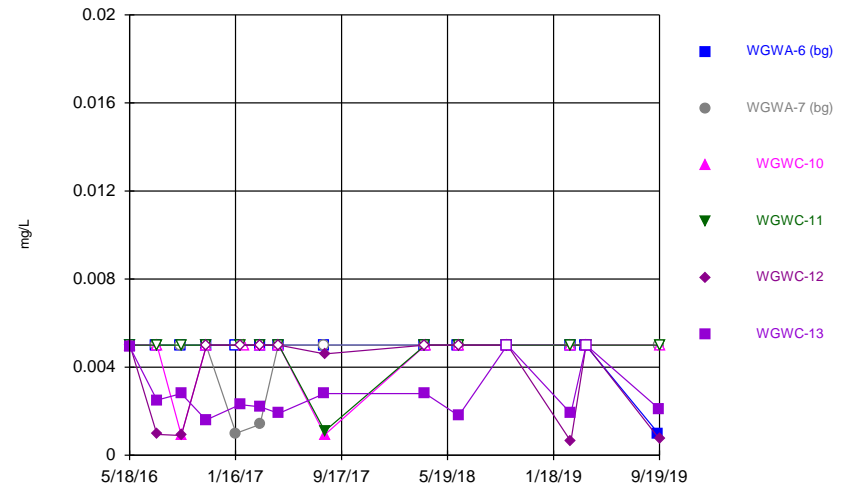
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Molybdenum



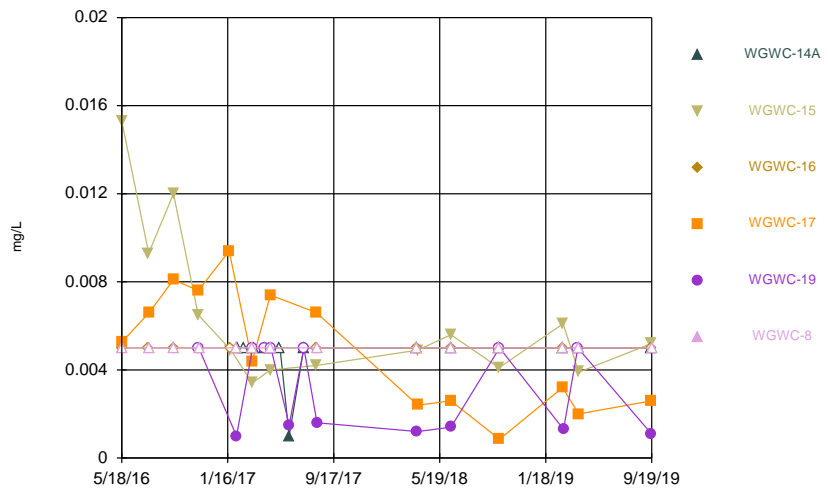
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Molybdenum



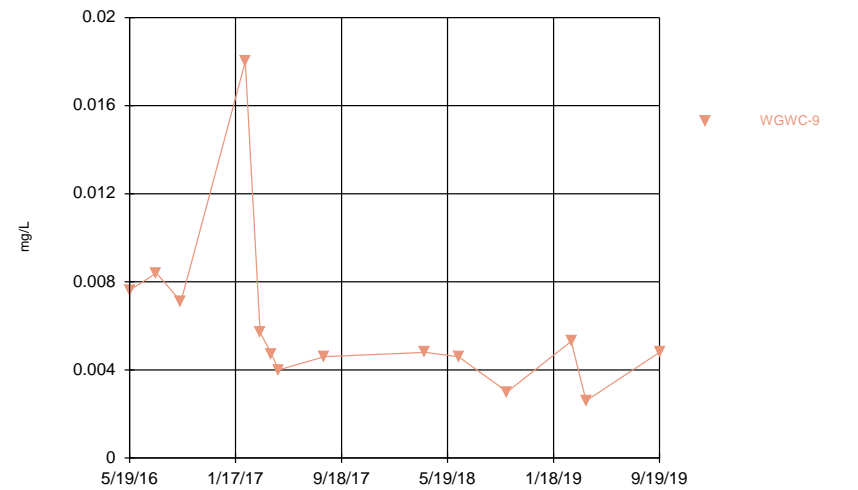
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Molybdenum



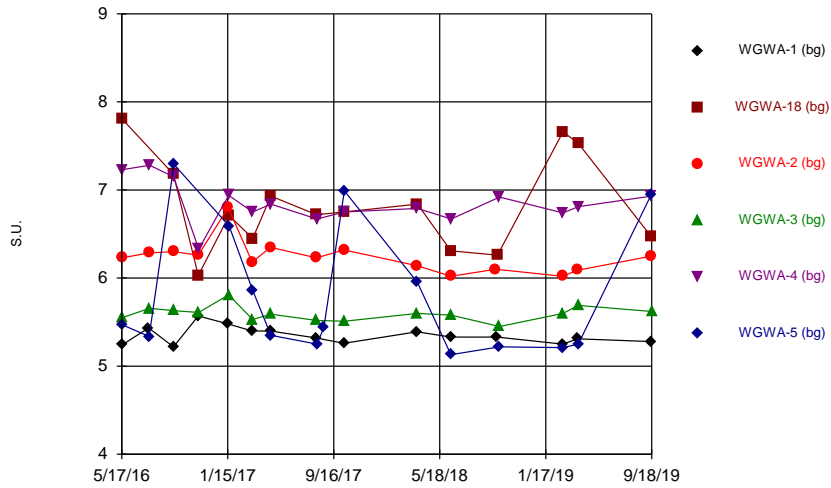
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Molybdenum



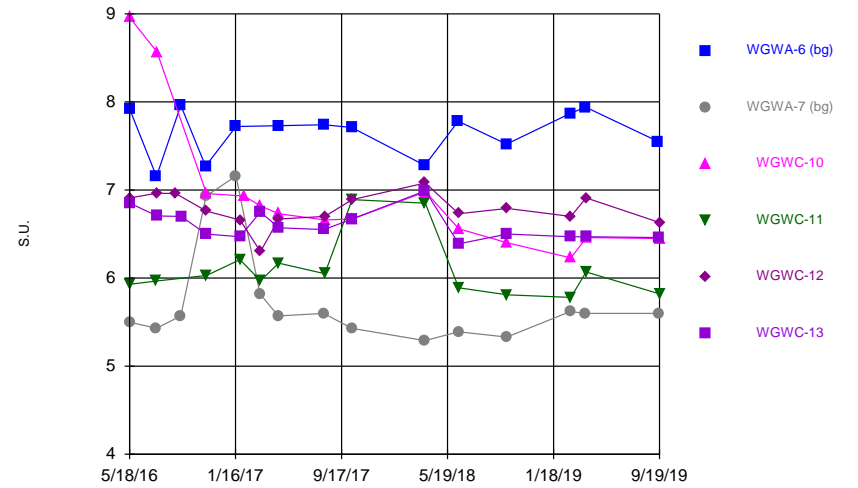
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pH



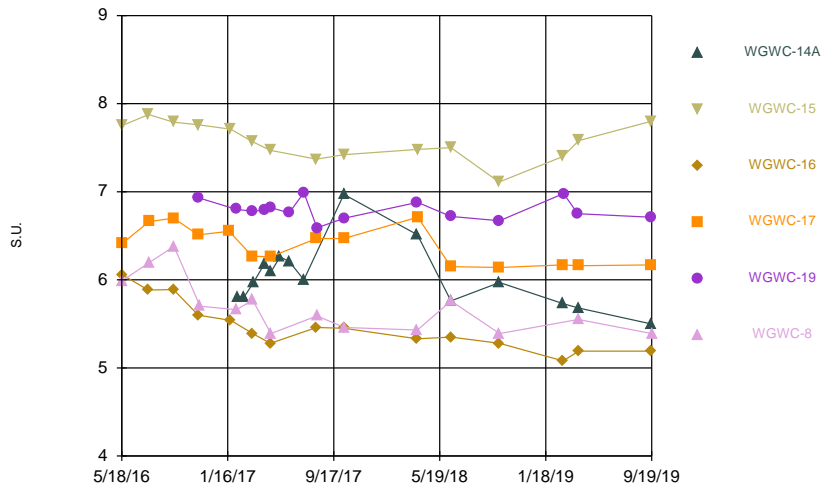
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pH



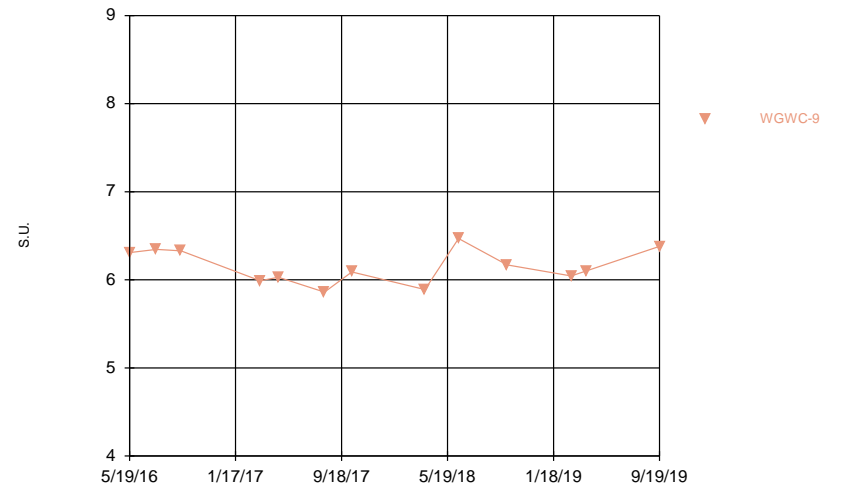
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pH



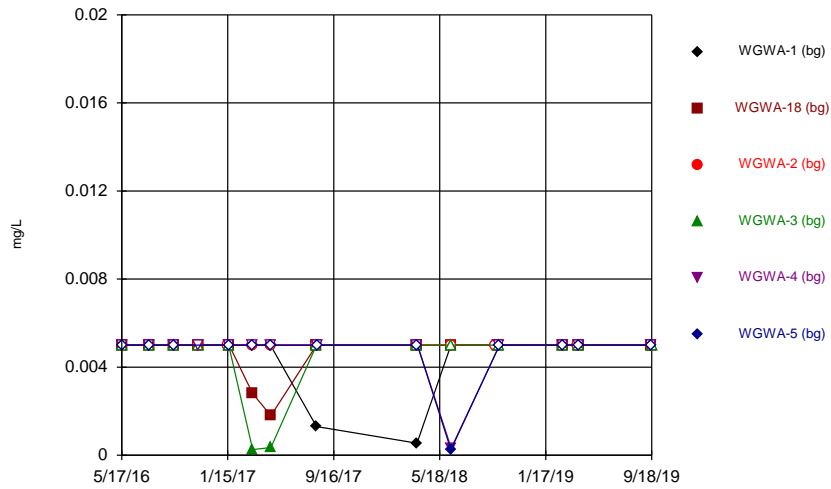
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pH



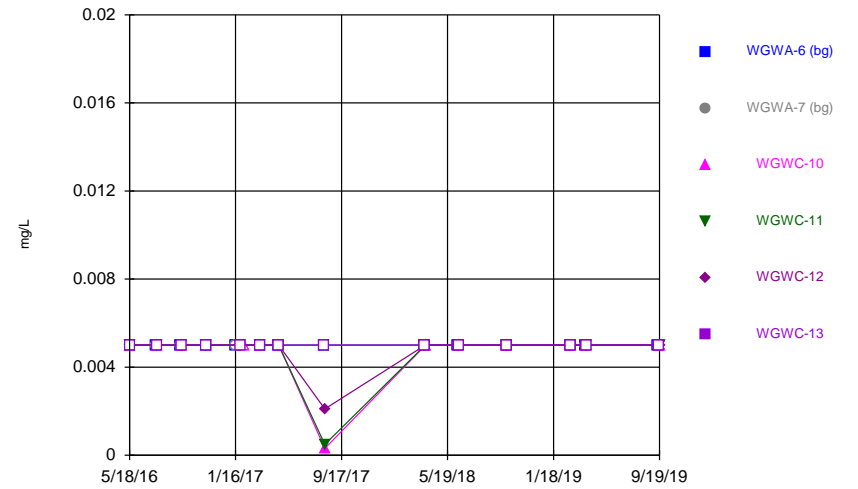
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Selenium



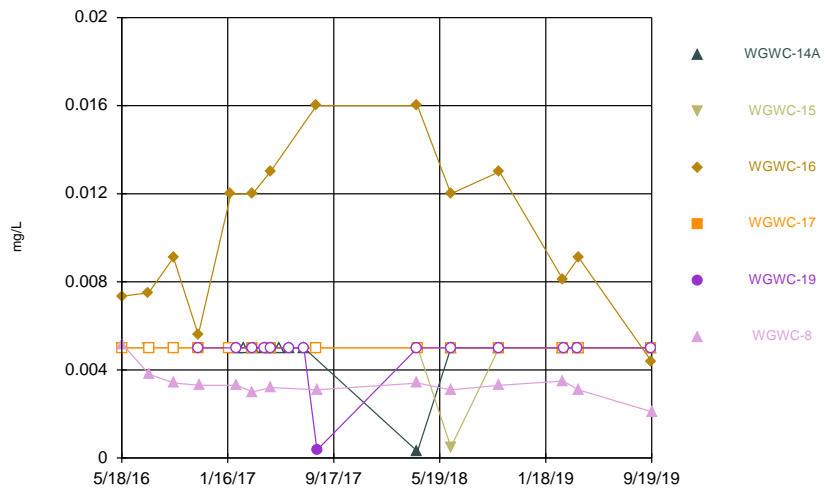
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Selenium



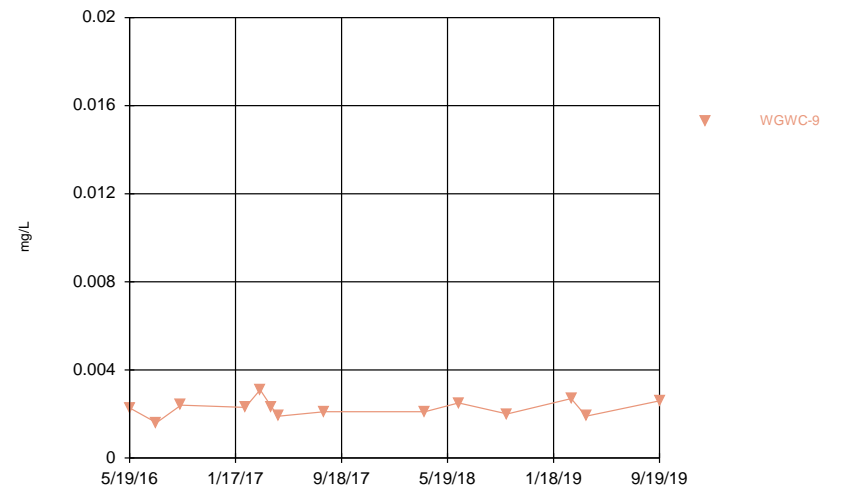
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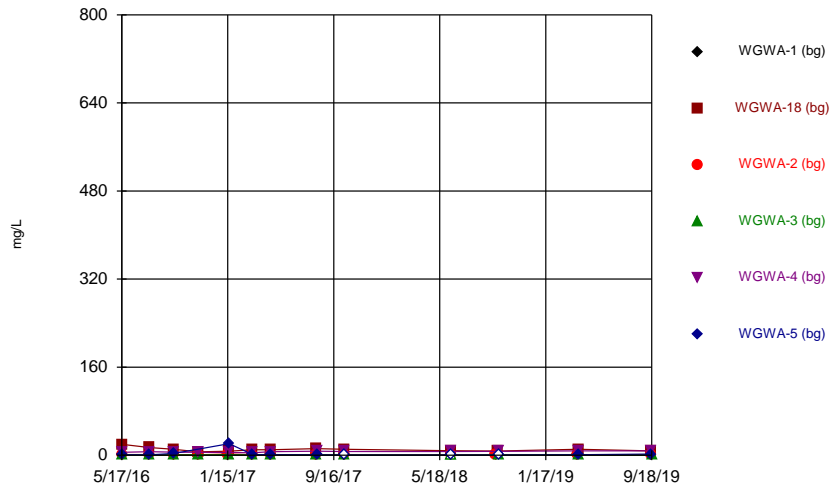
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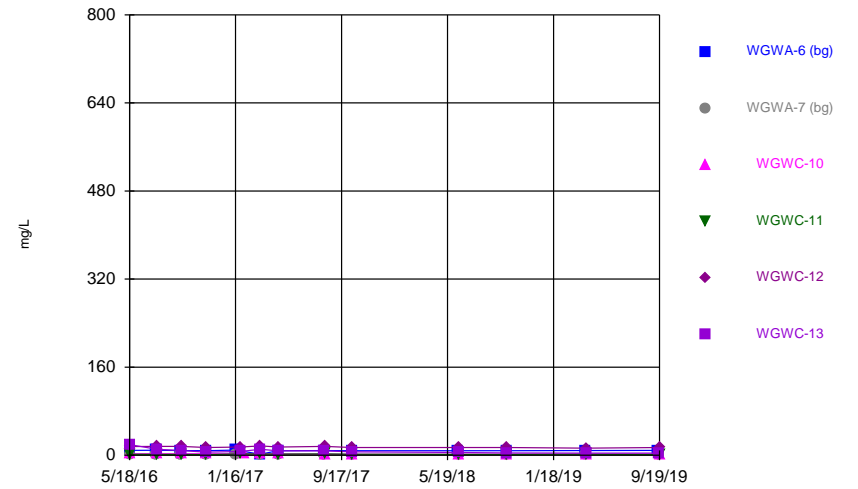
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Sulfate



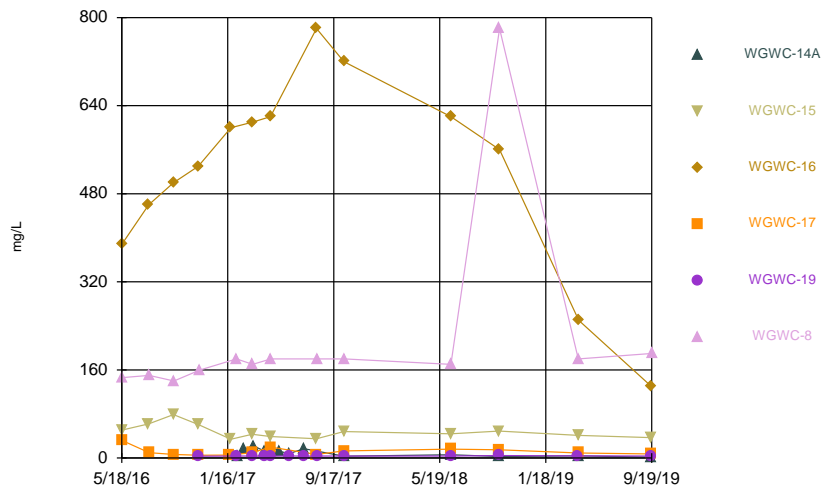
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Sulfate



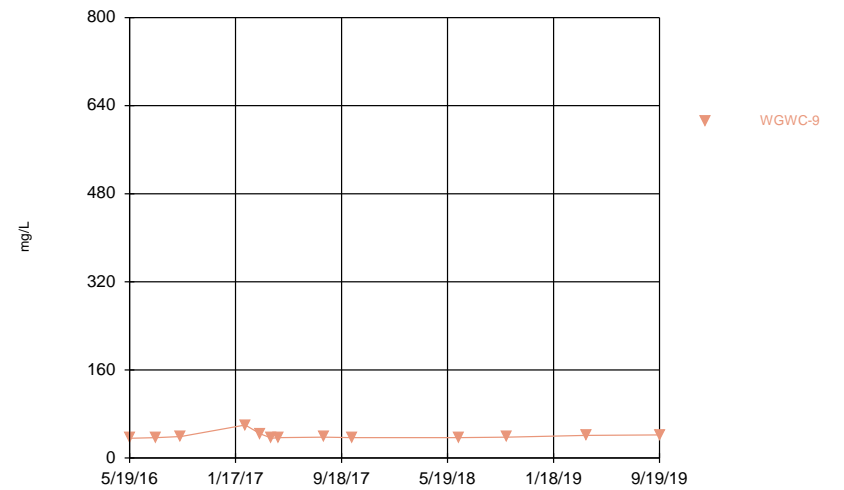
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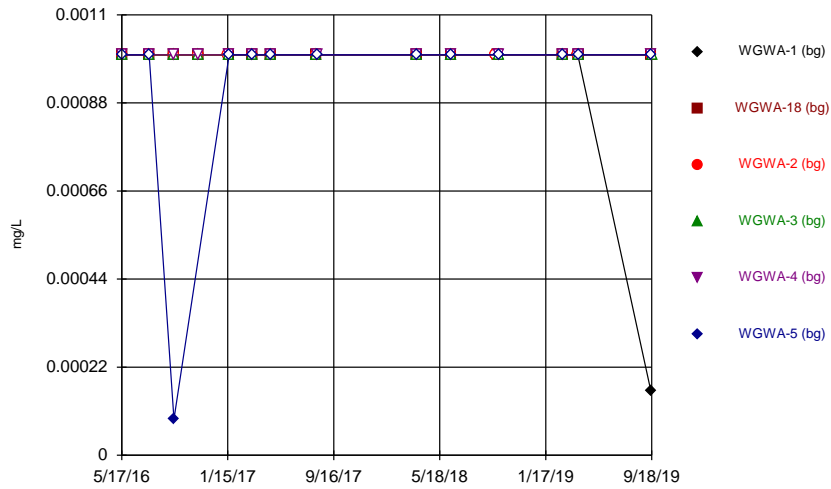
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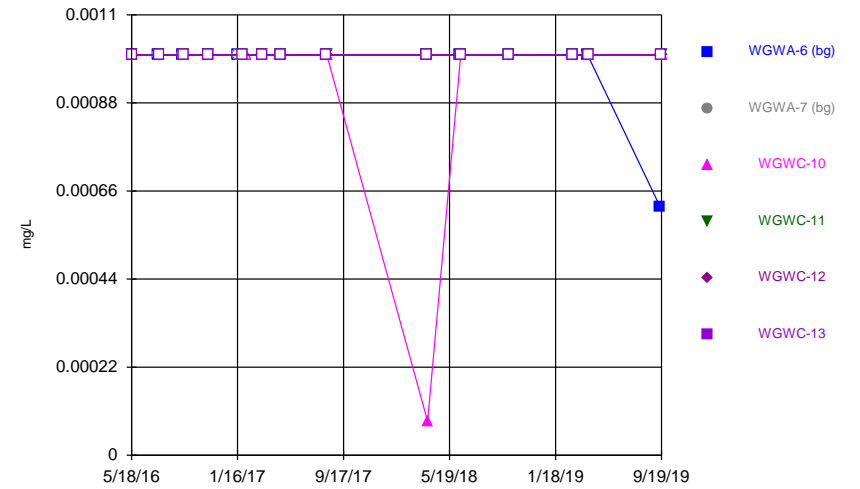
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Thallium



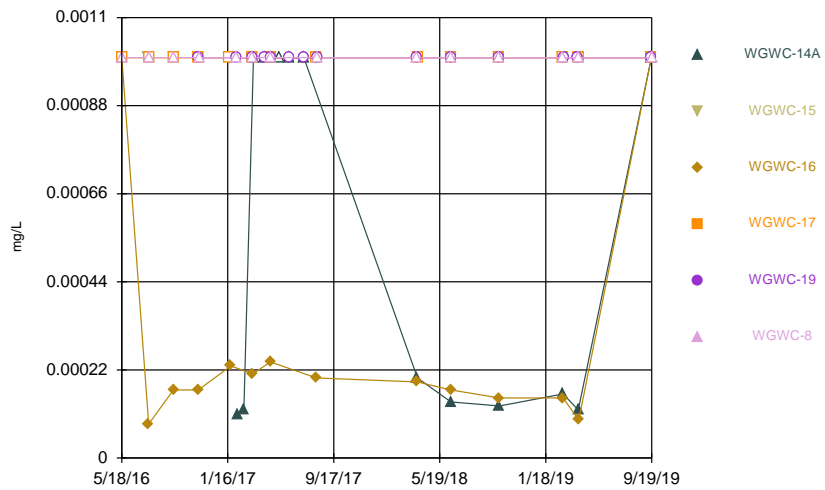
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Thallium



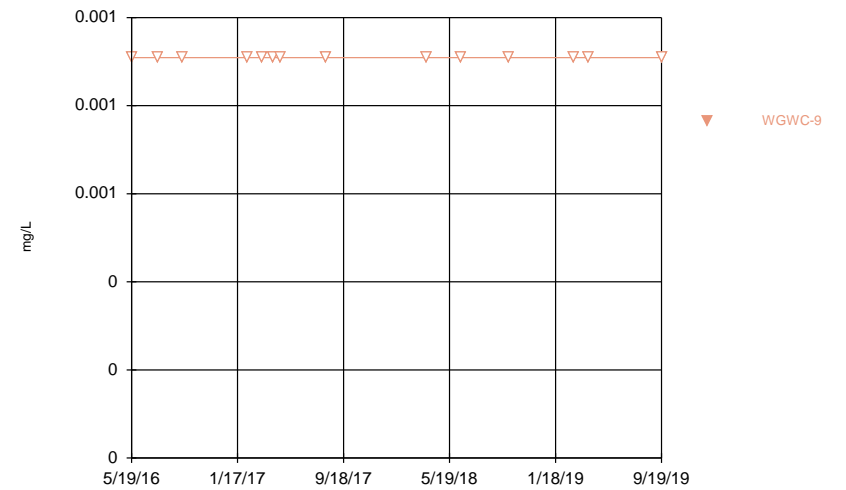
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Thallium



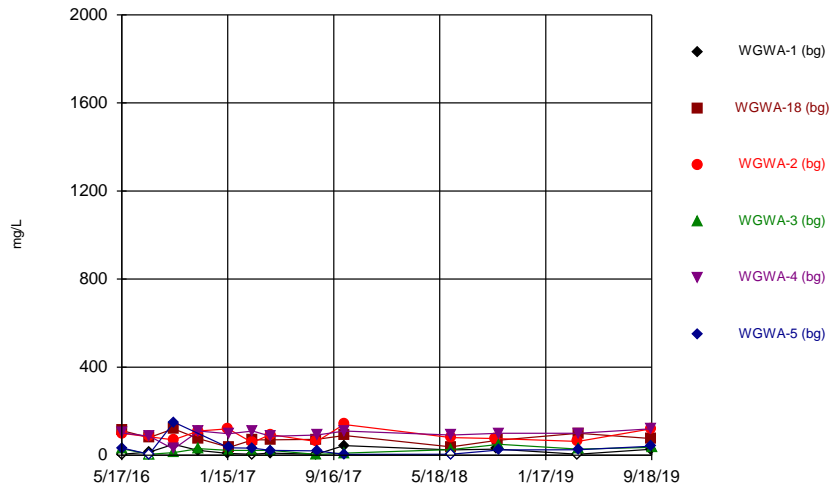
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Thallium



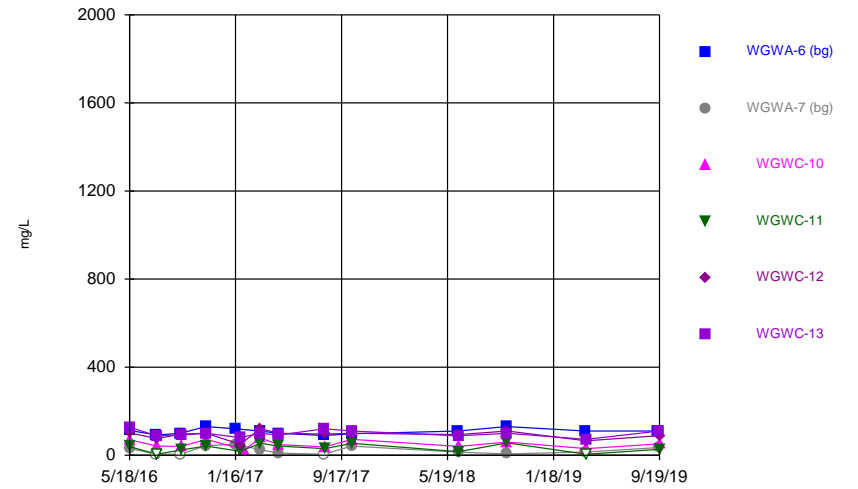
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Total Dissolved Solids



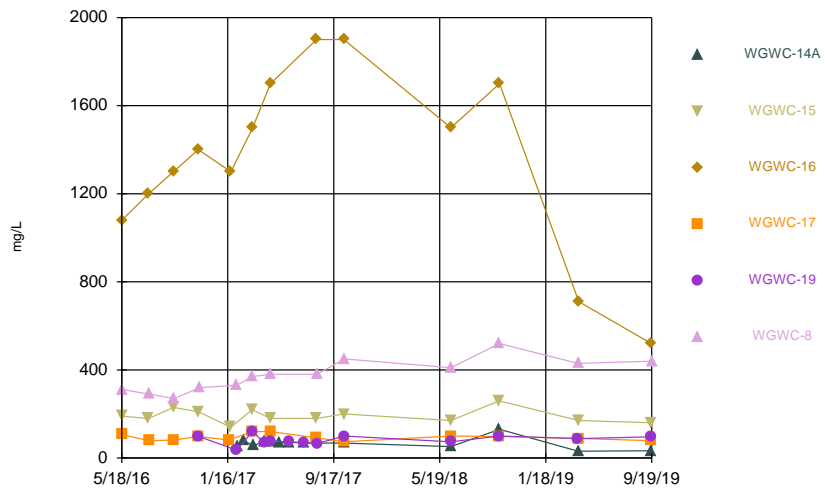
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Total Dissolved Solids



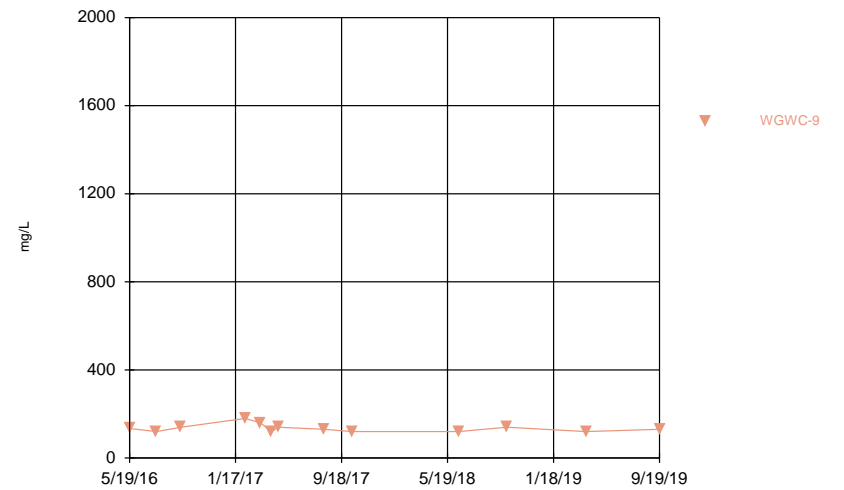
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Total Dissolved Solids



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Total Dissolved Solids



Time Series Analysis Run 11/13/2019 2:07 PM View: Time Series
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