

**Georgia Power Company  
Plant Wansley Ash Pond  
Heard County**

**2019 FIRST SEMIANNUAL GROUNDWATER  
MONITORING AND CORRECTIVE ACTION REPORT**



## CERTIFICATION STATEMENT

This *2019 First Semiannual Groundwater Monitoring & 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:

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## 1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] Part 257, Subpart D) and the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.10, Atlantic Coast Consulting, Inc. (ACC), has prepared this *2019 First Semiannual 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, GA 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). This report documents the activities completed for the groundwater monitoring program during the first half of 2019 calendar year.

A permit application to comply with EPD Rules was submitted in November 2018 and is currently under review. Semi-annual 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). The Federal regulations require annual reporting; this semi-annual report has been prepared to meet state requirements.

### 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 in the first half of 2019. 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.

Based on results of the *2017 Annual Groundwater and Corrective Action Monitoring Report*, an assessment monitoring program was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018.

Table 2, Groundwater Sampling Event Summary, summarizes groundwater events conducted at AP-1 during February and April 2019. During the February 2019 event, groundwater samples were collected and analyzed for Appendix IV constituents to meet the requirement of § 257.95(b). During the April 2019 semi-annual sampling event, groundwater samples were collected for both Appendix III and the Appendix IV constituents detected during the February 2019 event. Results of sampling activities conducted in the first half of 2019 are presented in Appendix A, Laboratory Analytical and Field Sampling Reports.

## **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 and 3B, Summary of Groundwater Elevations – February 2019 and April 2019, respectively. Groundwater levels and top of casing elevations were used to calculate groundwater elevations and develop a potentiometric surface elevation contour map provided in Figure 3, Potentiometric Surface Contour Map – April 2019. The general direction of groundwater flow across the site is to the southeast. The groundwater flow patterns observed during the April 2019 monitoring event is 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 Table 4, Groundwater Flow Velocity Calculations – April 2019. The calculated flow velocity was approximately 0.20 feet per day or 87 feet per year.

### **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, 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:

- $\pm 0.1$  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 two groundwater monitoring events in the first half of 2019. During the February 2019 sampling event, wells were sampled and analyzed for Appendix IV monitoring parameters pursuant to 40 CFR § 257.95(b). Groundwater samples collected during a semiannual event in April 2019 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 included: antimony and mercury. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in Appendix A.

Analytical data collected in monitoring events from the first half of 2019 (February and April 2019) are summarized in Table 5A, Summary of Groundwater Analytical Data – February 2019, and Table 5B, Summary of Groundwater Analytical Data – April 2019, respectively.

Laboratory analyses were performed by Test America Laboratories, Inc. (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 was 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 RPDs, 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).

Values followed by a "J" flag indicate that the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit (PQL). 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 except pH. Monitoring results for pH were evaluated using intrawell prediction limits combined with a 1-of-3 verification resample plan. 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. Intrawell prediction limits are constructed from historical data within a given well, and the most recent sample is compared to background. If the most recent sample exceeds its respective background statistical limit, an initial statistically significant increase (SSI) is identified. 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 GA 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 increase (SSI). 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 its respective standard.

## 4.2 Statistical Analysis Results

Analytical data from the assessment monitoring event in April 2019 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 will be 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.

## 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 event conducted in the first half of 2019. An alternate source demonstration (ASD) for lithium was included in the *2018 Annual Groundwater 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 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. Since the monitoring data show SSI for Appendix III parameters, this CCR unit will remain in assessment monitoring. The next semiannual monitoring event is planned for the second half of 2019.

## 7.0 REFERENCES

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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.

**Table 2**  
**Groundwater Sampling Event Summary for the First Half of 2019**

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

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 4**  
**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<sub>e</sub> = effective porosity

Values Used in Calculation

Value			Source
K =	2.4E-04 0.67	cm/sec ft/day	See note 1.
i <sub>1</sub> =	0.068	unitless	Hydraulic gradient from from WGWA-3 to WGWC-17 from PZ-10 to WGWC-19
i <sub>2</sub> =	0.085	unitless	
i =	0.076	unitless	Average (i <sub>1</sub> , i <sub>2</sub> )
P <sub>e</sub> =	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 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	
<b>Appendix IV</b>	<b>Antimony</b>	<b>0.006</b>	ND	ND	ND	ND	ND	ND	ND	
	<b>Arsenic</b>	<b>0.01</b>	ND (0.00047 J)	ND	ND	ND	ND	ND (0.00036 J)	0.0015	
	<b>Barium</b>	<b>2</b>	ND	ND (0.0023 J)	0.040	0.040	0.016	0.054	0.028	0.023
	<b>Beryllium</b>	<b>0.004</b>	ND (0.0021 J)	ND (0.00031 J)	ND	ND	ND	ND	ND (0.00017 J)	ND
	<b>Cadmium</b>	<b>0.005</b>	ND	ND	ND	ND	ND	ND	ND	ND
	<b>Chromium</b>	<b>0.1</b>	ND	0.0025	0.0031	ND (0.0021 J)	ND	ND (0.0018 J)	ND	ND (0.0015 J)
	<b>Cobalt</b>	<b>N/R</b>	ND (0.0019 J)	ND	ND (0.00050 J)	ND (0.0022 J)	ND (0.00060 J)	ND (0.00013 J)	0.0049	ND
	<b>Fluoride</b>	<b>4</b>	ND (0.054 J)	1.4	0.21	ND (0.047 J)	ND (0.060 J)	0.25	ND	0.81
	<b>Lead</b>	<b>0.015</b>	ND (0.00017 J)	ND (0.00014 J)	ND (0.00023 J)	ND (0.00058 J)	ND	ND (0.00068 J)	ND	ND
	<b>Lithium</b>	<b>N/R</b>	0.014	0.037	0.0068	ND	0.0068	ND	ND	0.0055
	<b>Mercury</b>	<b>0.002</b>	ND	ND	ND	ND	ND	ND	ND	ND
	<b>Molybdenum</b>	<b>N/R</b>	ND	0.0053	ND	ND	ND (0.00063 J)	ND (0.0019 J)	ND	0.0061
	<b>Radium</b>	<b>5</b>	2.42	0.271 U	0.236 U	0.374	0.415	1.08	0.538	0.363 U
	<b>Selenium</b>	<b>0.05</b>	0.0035	0.0027	ND	ND	ND	ND	ND	ND
<b>Thallium</b>	<b>0.002</b>	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	
<b>Appendix IV</b>	<b>Antimony</b>	<b>0.006</b>	ND	ND	ND
	<b>Arsenic</b>	<b>0.01</b>	ND (0.00046 J)	ND (0.00050 J)	ND
	<b>Barium</b>	<b>2</b>	0.028	0.012	ND
	<b>Beryllium</b>	<b>0.004</b>	ND (0.00022 J)	ND	ND
	<b>Cadmium</b>	<b>0.005</b>	ND (0.00055 J)	ND	ND
	<b>Chromium</b>	<b>0.1</b>	ND	ND	ND
	<b>Cobalt</b>	<b>N/R</b>	ND (0.00084 J)	ND (0.00086 J)	ND (0.00019 J)
	<b>Fluoride</b>	<b>4</b>	0.47	ND (0.068 J)	0.28
	<b>Lead</b>	<b>0.015</b>	ND (0.00014 J)	ND (0.00033 J)	ND
	<b>Lithium</b>	<b>N/R</b>	0.0075	0.0063	0.045
	<b>Mercury</b>	<b>0.002</b>	ND	ND	ND
	<b>Molybdenum</b>	<b>N/R</b>	ND	ND (0.0032 J)	ND (0.0013 J)
	<b>Radium</b>	<b>5</b>	0.721	0.431	0.254 U
	<b>Selenium</b>	<b>0.05</b>	0.0081	ND	ND
<b>Thallium</b>	<b>0.002</b>	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	
<b>Appendix III</b>	<b>Boron</b>	<b>N/R</b>	ND	ND	ND	ND	ND	ND	ND	
	<b>Calcium</b>	<b>N/R</b>	1.0	12	1.8	15	1.1	25	1.1	20
	<b>Chloride</b>	<b>(250)</b>	4.0	2.4	1.7	1.2	1.7	1.5	1.9	2.6
	<b>Fluoride</b>	<b>4</b>	ND	ND (0.061 J)	ND (0.039 J)	ND (0.14 J)	ND	ND (0.090 J)	ND	0.21
	<b>Sulfate</b>	<b>(250)</b>	ND	1.0	1.1	8.1	ND (0.94 J)	8.5	ND (0.40 J)	11
	<b>TDS</b>	<b>(500)</b>	ND	63	28	100	25	110	15	100
<b>Appendix IV</b>	<b>Arsenic</b>	<b>0.01</b>	ND	ND	ND	ND	ND	ND	ND	
	<b>Barium</b>	<b>2</b>	0.044	0.027	0.014	0.0056	0.016	0.0069	0.011	0.014
	<b>Beryllium</b>	<b>0.004</b>	ND	ND	ND	ND	ND	ND	ND	ND
	<b>Cadmium</b>	<b>0.005</b>	ND	ND	ND	ND	ND	ND	ND	ND
	<b>Chromium</b>	<b>0.1</b>	ND	ND	ND	ND	ND	ND	ND	ND
	<b>Cobalt</b>	<b>N/R</b>	ND (0.00079 J)	ND (0.00082 J)	ND	ND	ND (0.00046 J)	ND	ND	ND
	<b>Lead</b>	<b>0.015</b>	ND	ND	ND	ND	ND	ND	ND	ND
	<b>Lithium</b>	<b>N/R</b>	ND (0.0044 J)	0.0055	ND	ND (0.0036 J)	ND (0.0016 J)	0.0052	ND	ND (0.0012 J)
	<b>Molybdenum</b>	<b>N/R</b>	ND	ND	ND	ND	ND	ND	ND	ND
	<b>Radium</b>	<b>5</b>	0.169 U	-0.00216 U	0.361	0.602	0.255 U	7.80	0.182 U	0.0436 U
	<b>Selenium</b>	<b>0.05</b>	ND	ND	ND	ND	ND	ND	ND	ND
<b>Thallium</b>	<b>0.002</b>	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	30
	Chloride	(250)	70	2.0	1.4	3.3	3.0	1.2	2.4	3.7
	Fluoride	4	0.50	1.3	ND (0.13 J)	ND (0.048 J)	ND (0.084 J)	0.24	ND (0.048 J)	0.78
	Sulfate	(250)	180	41	2.2	1.9	13	3.8	3.8	41
	TDS	(500)	430	120	30	ND	66	72	31	170
Appendix IV	Arsenic	0.01	ND	ND	ND	ND	ND	ND (0.00053 J)	ND	0.0019
	Barium	2	ND (0.0010 J)	ND	0.040	0.035	0.015	0.056	0.026	0.022
	Beryllium	0.004	ND (0.0019 J)	ND	ND	ND	ND	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND	ND (0.0021 J)	ND	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	ND
	Lead	0.015	ND	ND	ND	ND	ND	ND (0.00047 J)	ND	ND
	Lithium	N/R	0.015	0.035	0.0059	ND	0.0075	ND	ND (0.0015 J)	0.0054
	Molybdenum	N/R	ND	ND (0.0026 J)	ND	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	0.418
	Selenium	0.05	0.0031	0.0019	ND	ND	ND	ND	ND	ND
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND (0.00012 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 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	
<b>Appendix III</b>	<b>Boron</b>	N/R	3.2	ND (0.049 J)	ND
	<b>Calcium</b>	N/R	110	5.6	11
	<b>Chloride</b>	(250)	170	1.4	2.5
	<b>Fluoride</b>	4	ND (0.080 J)	ND (0.087 J)	0.33
	<b>Sulfate</b>	(250)	250	9.1	3.8
	<b>TDS</b>	(500)	710	89	88
<b>Appendix IV</b>	<b>Arsenic</b>	0.01	ND	ND	ND
	<b>Barium</b>	2	0.027	0.011	ND (0.0013 J)
	<b>Beryllium</b>	0.004	ND	ND	ND
	<b>Cadmium</b>	0.005	ND (0.00047 J)	ND	ND
	<b>Chromium</b>	0.1	ND	ND	ND
	<b>Cobalt</b>	N/R	ND (0.00077 J)	ND	ND
	<b>Lead</b>	0.015	ND	ND	ND
	<b>Lithium</b>	N/R	0.0077	ND (0.0042 J)	0.052
	<b>Molybdenum</b>	N/R	ND	ND (0.0020 J)	ND
	<b>Radium</b>	5	0.632	0.386	0.209 U
	<b>Selenium</b>	0.05	0.0091	ND	ND
<b>Thallium</b>	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).
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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 (boron, calcium, chloride, fluoride, TDS and sulfate) or intrawell (pH) statistical limits are on constituent specific basis, depending on the appropriateness of the method as determined by the Analysis of Variance

**Table 7**  
**Summary of Background Levels and Groundwater Protection Standards**

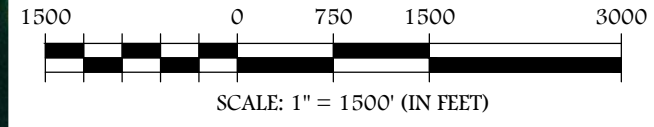
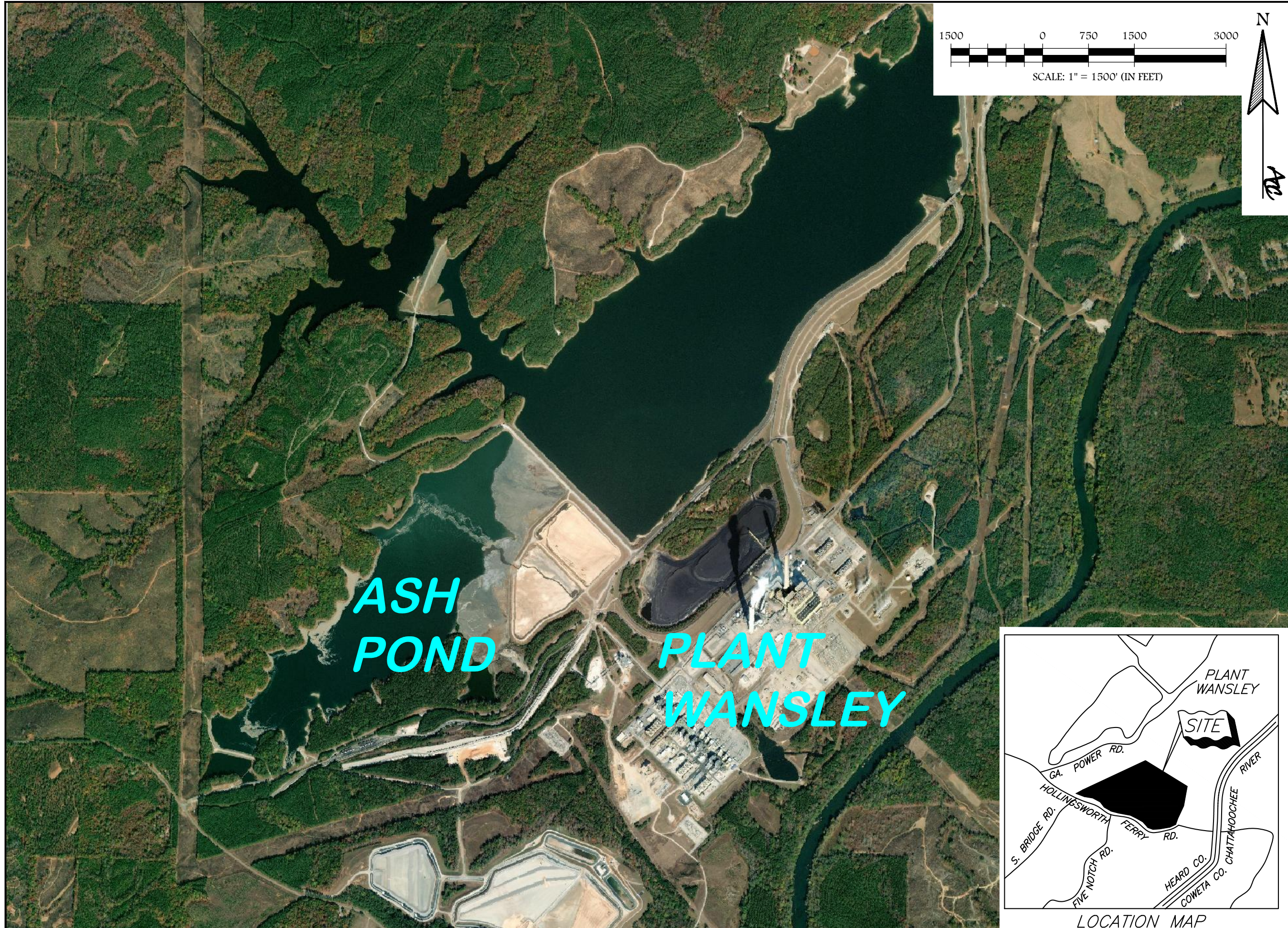
<b>Constituent</b>	<b>Site Background</b>	<b>Federal GWPS</b>	<b>State GWPS</b>
Arsenic	0.0014	0.010	0.010
Barium	0.062	2	2
Beryllium	0.0025	0.004	0.004
Cadmium	0.0025	0.005	0.005
Chromium	0.0031	0.1	0.1
Cobalt	0.013	0.013	0.013
Fluoride	0.21	4	4
Lead	0.0013	0.015	0.015
Lithium	0.009	0.040	0.009
Molybdenum	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





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1371 LIBERTY CHURCH ROAD  
 CARROLLTON, GEORGIA

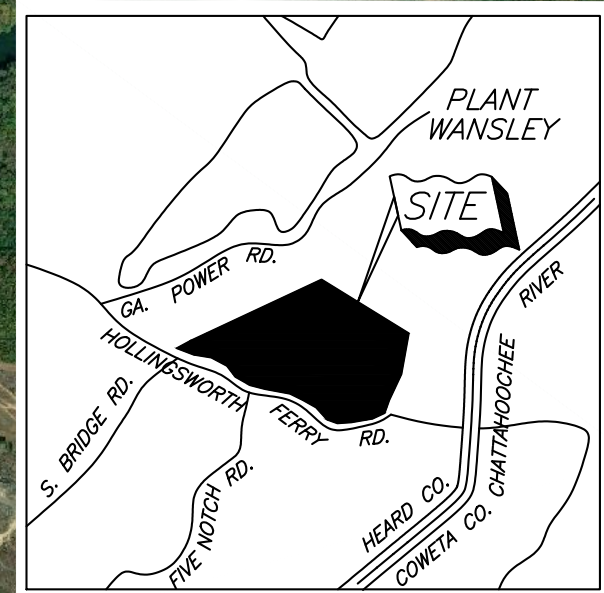
REVISIONS


Drawn by: MM      Checked by: EP

PROJECT NUMBER:  
 IO54-110  
 July 2019

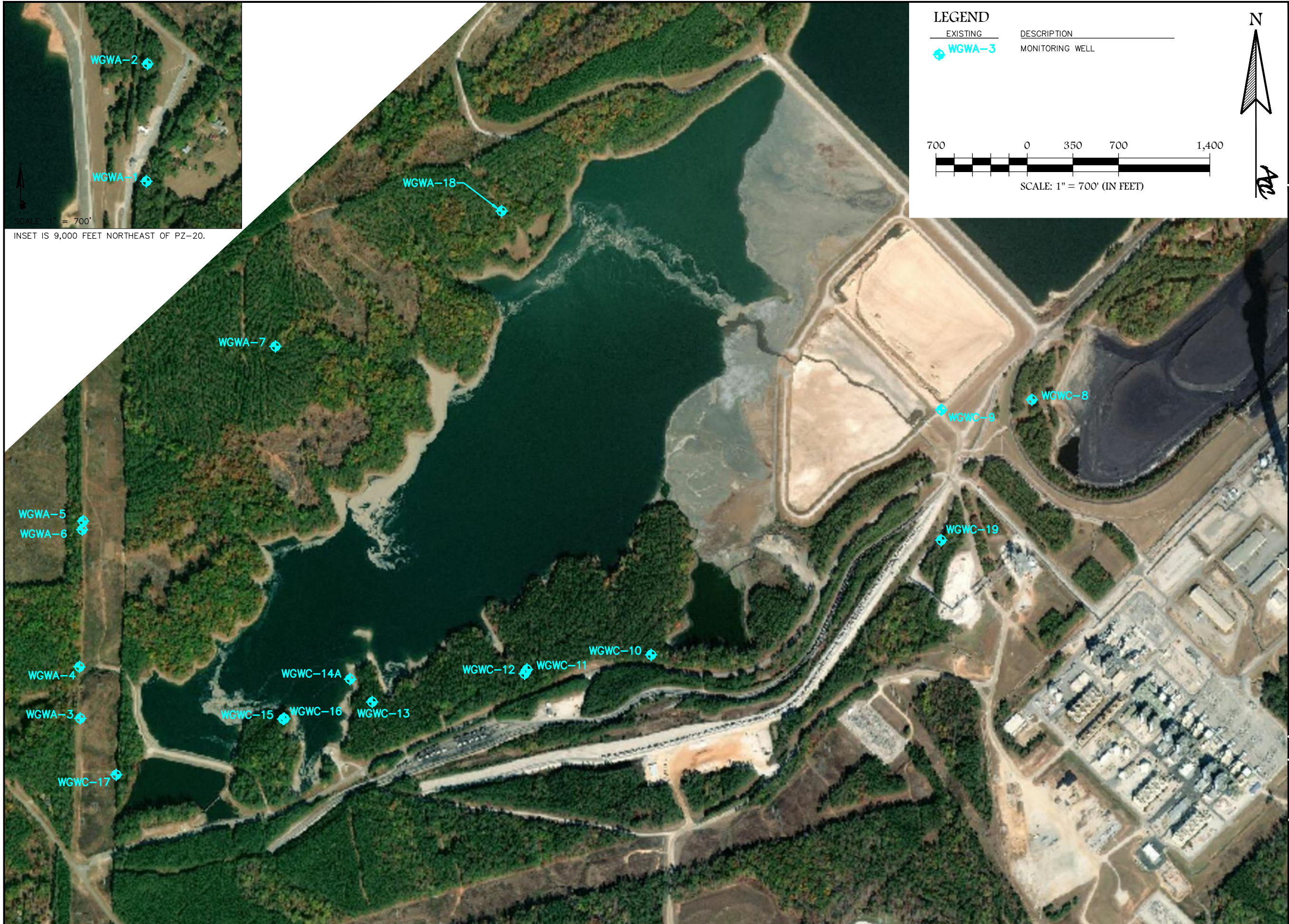
Plant Wansley  
 Ash Pond  
 Site Location Map

FIGURE 1



LOCATION MAP





**ACC**  
**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

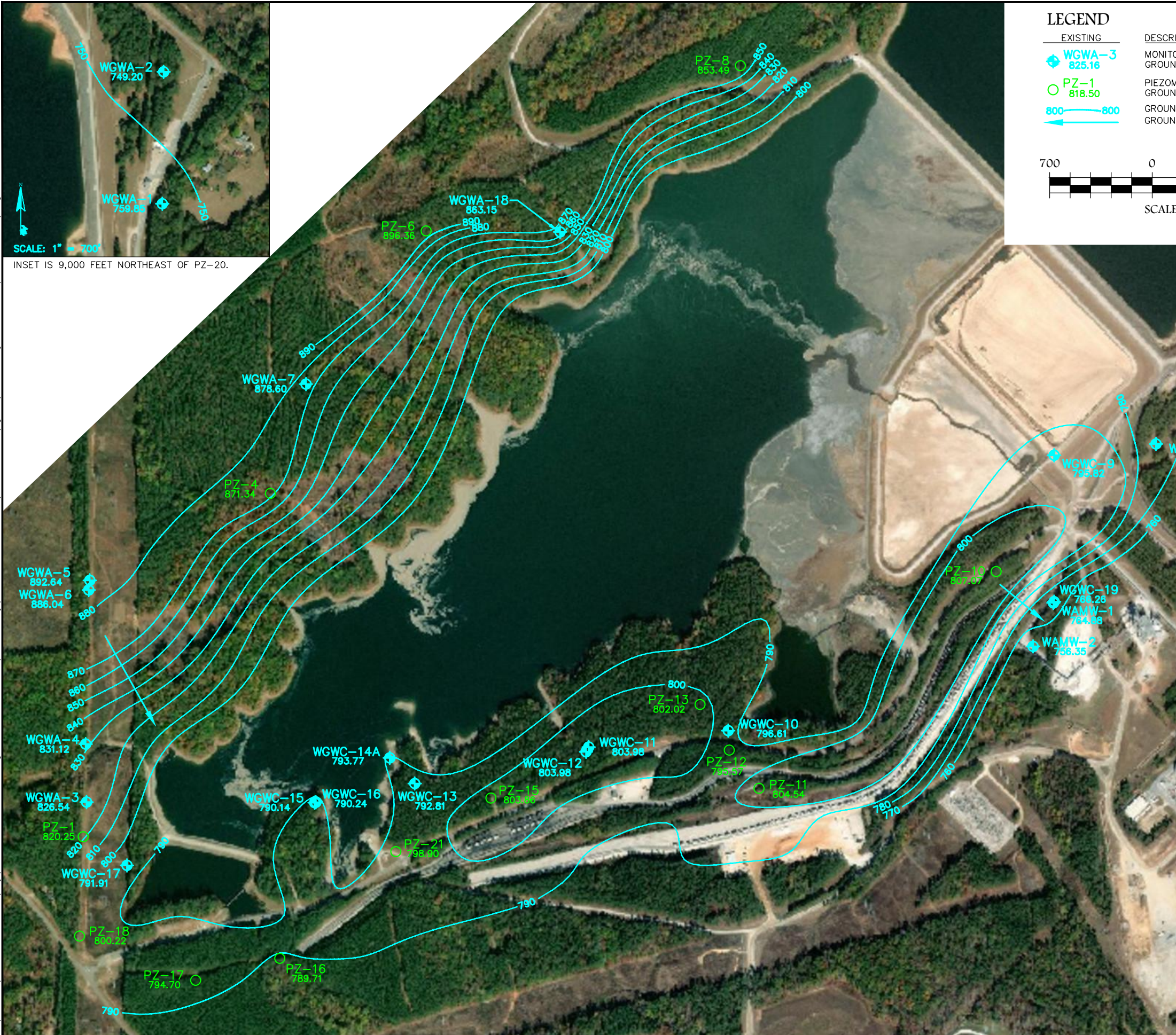

Drawn by: MM      Checked by: EP

PROJECT NUMBER:  
 IO54-110  
 July 2019

**MONITORING WELL NETWORK**

FIGURE 2



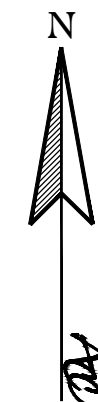


**LEGEND**

EXISTING	DESCRIPTION
◆ WGWA-3 825.16	MONITORING WELL GROUNDWATER ELEVATION
○ PZ-1 818.50	PIEZOMETER GROUNDWATER ELEVATION
800 — 800	GROUNDWATER ELEVATION CONTOUR
← 800	GROUNDWATER FLOW DIRECTION

700 0 350 700 1,400

SCALE: 1" = 700' (IN FEET)



**ACC**

**ATLANTIC COAST CONSULTING, INC.**

1150 Northmeadow Pkwy.  
Suite 100  
Roswell, GA 30076  
770.594.5998  
www.atlcc.net

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

REVISIONS

NO.	DATE	DESCRIPTION

Drawn by: **MM**    Checked by: **EP**

PROJECT NUMBER:  
**I054-110**  
July 2019

**APRIL 2019 POTENTIOMETRIC SURFACE CONTOUR MAP**

FIGURE **3**



## 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](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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

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

PA Lab ID: 02-00416



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# Case Narrative

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

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
<b>Barium</b>	<b>0.049</b>		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
<b>Cobalt</b>	<b>0.00085</b>	<b>J</b>	0.0025	0.000075	mg/L		03/05/19 11:45	03/06/19 13:27	1
<b>Chromium</b>	<b>0.0016</b>	<b>J</b>	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
<b>Lithium</b>	<b>0.0049</b>	<b>J</b>	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
<b>Barium</b>	<b>0.020</b>		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
<b>Cobalt</b>	<b>0.00060</b>	<b>J</b>	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
<b>Lead</b>	<b>0.00028</b>	<b>J</b>	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
<b>Barium</b>	<b>0.014</b>		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
<b>Lead</b>	<b>0.00025</b>	<b>J</b>	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
<b>Barium</b>	<b>0.028</b>		0.0025	0.0015	mg/L		03/05/19 11:50	03/08/19 12:10	1
<b>Beryllium</b>	<b>0.00017</b>	<b>J</b>	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
<b>Cobalt</b>	<b>0.0049</b>		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
<b>Thallium</b>	<b>0.00016</b>	<b>J</b>	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	

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# 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

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

**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)		300 ORGM_28D - Fluoride		6020_7470A (App IV metals)		9315_Ra226, 9320_Ra228		Total Number of Containers	Special Instructions/Note:
					X		N	D					X			
WGWA-2	2-25-19	1520	G	Water	X		X		X		X		X			
WGWA-3	2-26-19	1035	G	Water	X		X		X		X		X			
WGWA-4	2-26-19	1210	G	Water	X		X		X		X		X			
WGWA-7	2-26-19	1400	G	Water	X		X		X		X		X			
WGWA-1	2-25-19	1805	G	Water	X		X		X		X		X			
WGWA-5	2-26-19	1315	G	Water	X		X		X		X		X			
WGWA-6	2-26-19	1415	G	Water	X		X		X		X		X			
WGWA-18	2-26-19	1515	G	Water	X		X		X		X		X			
WGWC-17	2-26-19	1510	G	Water	X		X		X		X		X			
WGWC-13	2-27-19	1100	G	Water	X		X		X		X		X			
DUP-1			G	Water	X		X		X		X		X			

**Barcode:** 180-87210 Chain of Custody

**Preservation Codes:**  
 A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, Other:  
 M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

**Special Instructions/QC Requirements:**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

**Relinquished by:** [Signature] Date: 2/28/19 Company: ACC  
**Relinquished by:** [Signature] Date: 2/28/19 Company: 77A  
**Relinquished by:** [Signature] Date: 3/11/19 Company: [Signature]

**Deliverable Requested:**  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

**Empty Kit Relinquished by:** [Signature] Date: 2/28/19 Company: ACC  
**Relinquished by:** [Signature] Date: 2/28/19 Company: 77A  
**Relinquished by:** [Signature] Date: 3/11/19 Company: [Signature]

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





<b>Client Information</b>		Lab PM: Bortot, Veronica		Carrier Tracking No(s):		COC No: 180-49924-10499.1	
Client Contact: Mr. Joju Abraham		E-Mail: veronica.bortot@testamericainc.com		Page: Page 1 of 3		Job #:	
Company: Southern Company Services		Address: 241 Ralph McGill Blvd NE, Bin 10185		City: Atlanta		State, Zip: GA, 30308	
Phone: 404-506-7239		PO #: SCS10382606		WG #:		Project #: 18019922	
Email: JABRAHAM@SOUTHERNCO.COM		SSOW#: CCR - Plant Wansley App IV Scan Event		Site: Georgia		Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)	
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
FB-1-2-26-19		2-26-19		1500		Water	
<del>EB-2</del> EB-1-2-27-19		2-27-19		0950		Water	
WGWC-14A		2-27-19		1155		Water	
WGWC-15		2-27-19		1330		Water	
WGWC-16		2-27-19		1430		Water	
WGWC-8		2-28-19		1025		Water	
WGWC-10		2-27-19		1125		Water	
WGWC-11		2-27-19		1430		Water	
WGWC-12		2-27-19		1700		Water	
WGWC-9		2-28-19		1050		Water	
DUP-Z		-		-		Water	
<b>Possible Hazard Identification</b>		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant	
Deliverable Requested: I, II, III, IV, Other (specify)		<input type="checkbox"/> Poison B		<input checked="" type="checkbox"/> Unknown		<input type="checkbox"/> Radiological	
<b>Empty Kit Relinquished by:</b>		Date/Time: 3/28/19		Date/Time: 2/28/19		Date/Time: 1345	
Relinquished by: [Signature]		Company: ACC		Relinquished by: [Signature]		Company: TA	
Relinquished by: [Signature]		Company: TA		Relinquished by: [Signature]		Company: TA	
Custody Seal No.: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	
Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	
<b>Analysis Requested</b>		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		300_ORGM_28D - Fluoride	
Total Number of Containers		X		X		X	
Special Instructions/Note:		3		3		3	
Preservation Codes:		A - HCL		M - Hexane		N - None	
B - NaOH		C - Zn Acetate		O - AsNaO2		P - Na2O4S	
D - Nitric Acid		E - NaHSO4		Q - Na2SO3		R - Na2S2O3	
F - MeOH		G - Amchlor		S - H2SO4		T - TSP Dodecahydrate	
H - Ascorbic Acid		I - Ice		U - Acetone		V - MCAA	
J - DI Water		K - EDTA		W - pH 4.5		Z - other (specify)	
L - EDA		Other:		Special Instructions/Note:			
<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>		<input type="checkbox"/> Return To Client		<input checked="" type="checkbox"/> Disposal By Lab		Archive For _____ Months	
<b>Special Instructions/QC Requirements:</b>		Method of Shipment:		Date/Time: 2/28/19		Date/Time: 1345	
Relinquished by: [Signature]		Company: ACC		Relinquished by: [Signature]		Company: TA	
Relinquished by: [Signature]		Company: TA		Relinquished by: [Signature]		Company: TA	



**Chain of Custody Record**

<b>Client Information</b>		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	
City: Atlanta		PO #: SCS10382606		Preservation Codes:	
State Zip: GA, 30308		WO #:		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 F - MeOH G - Amchlor R - Na2SO3 S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA L - EDA W - pH 4-5 Z - other (specify) Other:	
Project Name: CCR - Plant Wansley App IV Scan Event		Project #: 18019922		Special Instructions/Note:	
Site: Georgia		SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastel/oli, BT=Tissue, A=Air)	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	Total Number of Containers	Special Instructions/Note:
						Yes	No	Yes	No					
WGWC-19	2-28-19	1125	G	Water		X	X	X	X				3	
EB-2-2-28-19	2-28-19	1130	G	Water		X	X	X	X				3	
FB-2-2-28-19	2-28-19	1040	G	Water		X	X	X	X				3	
				Water										
				Water										
				Water										
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				Water										

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: 2/28/19 1345 Company: ACC

Relinquished by: \_\_\_\_\_ Date/Time: 2/28/19 1640 Company: TA

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No  Seal No.: \_\_\_\_\_

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





# 159469-434 RIT2 EXP 10/19

**TestAmerica**  
RT 97  
FZ

TESTING

HEADLINE IN ENV

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

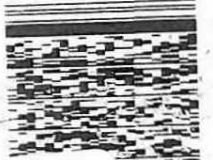
ROSS, GA 30093  
UNITED STATES US

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

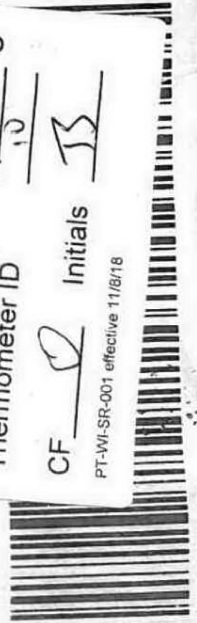
Uncorrected temp  
Thermometer ID

1.9  
10 °C

CF Initials

JS

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



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**Custody S**

DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

**FedEx**  
Express

**E**

**AGCA**

2 of 5  
080 7306  
080 7291

0201

FRI - 01 MAR 3:00  
STANDARD OVERNIGHT

1523  
PA-US

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 RECIPIENT

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

(412) 963-7058

REF: SOUTHERN 00



FedEx  
Express



AN10709021124F

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<sup>PT97</sup><sub>R2</sub>

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  
ACT/MGT: 55 55  
CRD: 859116/CAFE3211

BILL RECIPIENT

AGCA (678) 966-9991  
ATLANTA  
301 ALPHABET DRIVE

SAMPLE RECEIVING  
IN PITTSBURGH  
301 ALPHA DRIVE  
RDC PARK

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

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/0CBA

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**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>			Sampler: Lab PM: Bortol, Veronica		Carrier Tracking No(s):	
Client Contact: Shipping/Receiving			Phone: E-Mail: veronica.bortol@testamericainc.com		State of Origin: Georgia	
Company: TestAmerica Laboratories, Inc.			Accreditations Required (See note):		Job #: 180-87210-1	
Address: 13715 Rider Trail North, Earth City, MO, 63045			Due Date Requested: 3/13/2019		ICOC No: 180-356418.1	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)			TAT Requested (days):		Page: Page 1 of 3	
Email:			PO #:		Job #:	
Project Name: CCR - Plant Wansley			WO #:		Preservation Codes:	
Site: CCR - Plant Wansley Lanfill			Project #: 18019922		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:	
SSOW#:			Field Filtered Sample (Yes or No)		Total Number of Containers	
<b>Sample Identification - Client ID (Lab ID)</b>			Perform MS/MSD (Yes or No)		Special Instructions/Note:	
WGWA-2 (180-87210-1)	Sample Date: 2/25/19	Sample Time: 15:20 Eastern	Sample Type (C=Comp, G=grab) (BT=Tissue, A=Air)	Preservation Code:	9315_Ra28/PreSep_21 Standard Target List	X
WGWA-3 (180-87210-2)	2/26/19	10:35 Eastern	Water		9320_Ra28/PreSep_0 Standard Target List	X
WGWA-4 (180-87210-3)	2/26/19	12:10 Eastern	Water			X
WGWA-7 (180-87210-4)	2/26/19	14:00 Eastern	Water			X
WGWA-1 (180-87210-5)	2/25/19	15:05 Eastern	Water			X
WGWA-5 (180-87210-6)	2/26/19	13:15 Eastern	Water			X
WGWA-6 (180-87210-7)	2/26/19	14:15 Eastern	Water			X
WGWA-18 (180-87210-8)	2/26/19	15:15 Eastern	Water			X
WGWC-17 (180-87210-9)	2/26/19	15:10 Eastern	Water			X

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: \_\_\_\_\_ Method of Shipment: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: Michael Allen Date/Time: 3/15/19 09:25 Company: TA 572  
Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

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

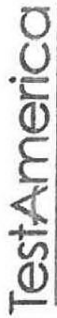




**TestAmerica Pittsburgh**

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

**Chain of Custody Record**



THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b>		Sampler: <b>Bortol, Veronica</b>	Carrier Tracking No(s):	COC No: <b>180-356418.2</b>
Client Contact: <b>veronica.bortol@testamericainc.com</b>		E-Mail: <b>veronica.bortol@testamericainc.com</b>	State of Origin: <b>Georgia</b>	Page: <b>Page 2 of 3</b>
Shipping/Receiving		Phone:	Accreditations Required (See note):	Job #: <b>180-87210-1</b>
Company: <b>TestAmerica Laboratories, Inc.</b>		Due Date Requested: <b>3/13/2019</b>	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:	
Address: <b>13715 Rider Trail North,</b>		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)	
City: <b>Earth City</b>	PO #:	WO #:	Analysis Requested	
State, Zip: <b>MO, 63045</b>	Project #:	SSOW #:	Total Number of Containers	
Phone: <b>314-298-8566(Tel) 314-298-8757(Fax)</b>	18019922		9315_Raz26/PreSep_21 Standard Target List	
Email:			9320_Raz28/PreSep_0 Standard Target List	
Project Name: <b>CCR - Plant Wansley</b>	Site: <b>CCR - Plant Wansley Lanfill</b>		Perform MS/MSD (Yes or No)	
			Field Filtered Sample (Yes or No)	
			Matrix	
			Sample Type (C=Comp, G=grab)	
			Sample Time	
			Sample Date	
			Preservation Code	
			Special Instructions/Note:	
<b>Sample Identification - Client ID (Lab ID)</b>				
WGWC-13 (180-87210-10)	2/27/19	11:00 Eastern	Water	X
DUP-1 (180-87210-11)	2/25/19	Eastern	Water	X
FB-1-2-26-19 (180-87210-12)	2/26/19	15:00 Eastern	Water	X
EB-1-2-27-19 (180-87210-13)	2/27/19	09:50 Eastern	Water	X
WGWC-14A (180-87210-14)	2/27/19	11:55 Eastern	Water	X
WGWC-15 (180-87210-15)	2/27/19	13:30 Eastern	Water	X
WGWC-16 (180-87210-16)	2/27/19	14:30 Eastern	Water	X
WGWC-8 (180-87210-17)	2/27/19	10:25 Eastern	Water	X
WGWC-10 (180-87210-18)	2/27/19	11:25 Eastern	Water	X



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) \_\_\_\_\_ Months

Special Instructions/QC Requirements: \_\_\_\_\_

Return To Client  Disposal By Lab  Archive For \_\_\_\_\_

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: **3/19/2019 17:00** Company: **WSP**

Relinquished by: *Michelle Allen* Date/Time: **3/19/2019 09:35** Company: **IA 312**

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_

Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks:



# Chain of Custody Record

<b>Client Information (Sub Contract Lab)</b>		Lab PM: Bortot, Veronica		Carrier Tracking No(s):						
Client Contact: Shipping/Receiving		E-Mail: veronica.bortot@testamericainc.com		State of Origin: Georgia						
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		COC No: 180-356418.3						
Address: 13715 Rider Trail North,		Due Date Requested: 3/13/2019		Page: 3 of 3						
City: Earth City		TAT Requested (days):		Job #: 180-87210-1						
State, Zip: MO, 63045		PO #:		Preservation Codes:						
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:						
Project Name: CCR - Plant Wansley		Project #: 18019922		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)						
Site: CCR - Plant Wansley Lanfill		SSOW#:		Total Number of Containers:						
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefill, 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	Analysis Requested	Special Instructions/Note:
WGWC-11 (180-87210-19)	2/27/19	14:30 Eastern	Water	Water	X	X	X	X		
WGWC-12 (180-87210-20)	2/27/19	17:00 Eastern	Water	Water	X	X	X	X		
WGWC-9 (180-87210-21)	2/28/19	10:50 Eastern	Water	Water	X	X	X	X		
DUP-2 (180-87210-22)	2/25/19	Eastern	Water	Water	X	X	X	X		
WGWC-19 (180-87210-23)	2/28/19	11:25 Eastern	Water	Water	X	X	X	X		
EB-2-2-28-19 (180-87210-24)	2/28/19	11:30 Eastern	Water	Water	X	X	X	X		
FB-2-2-28-19 (180-87210-25)	2/28/19	10:40 Eastern	Water	Water	X	X	X	X		
180-87210-02 Chain of Custody										
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										
<b>Possible Hazard Identification</b>										
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____ Months										
Empty Kit Relinquished by: _____ Date: _____ Time: _____										
Relinquished by: _____ Date/Time: 04/19 1700 Company: Wansley										
Relinquished by: _____ Date/Time: _____ Company: _____										
Relinquished by: _____ Date/Time: _____ Company: _____										
Custody Seals Intact: _____ Cooler Temperature(s) °C and Other Remarks: _____										
Custody Seal No.: _____										



# 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 <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	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	



## 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](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

PA Lab ID: 02-00416



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# Case Narrative

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

Job ID: 180-87210-2  
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

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## Job ID: 180-87210-2 (Continued)

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### 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.

# 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

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	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

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	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

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	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

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	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										

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-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										

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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-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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	102		40 - 110					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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	102		40 - 110					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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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

# 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

# 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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	97.3		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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	99.7		40 - 110					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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	99.7		40 - 110					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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	101		40 - 110					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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	101		40 - 110					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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	98.2		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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	98.2		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

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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-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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	102		40 - 110					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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	102		40 - 110					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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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

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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: 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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.6		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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.6		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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	94.4		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

Eurofins TestAmerica, Pittsburgh

# 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	

Chain of Custody Record

681-Atlanta

<b>Client Information</b> 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.#: WO.#: Project #: SSONW#:		Analysis Requested 300_ORGFM_28D - Fluoride, 6020_7470A (App IV metals), 9315_Ra226, 9320_Ra228 Field Filtered Sample (Yes or No)	
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 Type (C=Comp, G=grab): G, G, G, G, G, G, G, G, G, G Sample Time: 1520, 1035, 1210, 1400, 1805, 1315, 1415, 1515, 1510, 1100, - 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, - Preservation Code: W, W, W, W, W, W, W, W, W, W		Performance MS/MSD (Yes or No) N, D, D Total Number of Containers: 3, 3, 3, 3, 3, 3, 3, 3, 3, 3	
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: 180-87210 Chain of Custody	
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 1345 Company: ACC		Received by: [Signature] Date/Time: 3/1/19 Company:	
Relinquished by: [Signature] Date/Time: 2/28/19 1600 Company: 7A		Received by: [Signature] Date/Time: N Company:	
Relinquished by: [Signature] Date/Time:		Received by: [Signature] Date/Time:	
Custody Seals Intact: A Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	





<b>Client Information</b> 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 6020_7470A (App IV metals) 9316_Ra226, 9320_Ra228	
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Preservation Code Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)		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 X - EDA 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/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	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:	
Relinquished by: [Signature] Date/Time: 3/28/19		Relinquished by: [Signature] Date/Time: 2/28/19	
Relinquished by: [Signature] Date/Time: 3/28/19		Relinquished by: [Signature] Date/Time: 2/28/19	
Custody Seal No.: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	



**Chain of Custody Record**

<b>Client Information</b> Sampler: <u>O. FLOQUA, J. BERTSFOUR</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>Page 1 of 3</u> Job #:							
Due Date Requested: TAT Requested (days):		Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:							
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>		PO #: <u>SCS10382606</u> WO #:		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)							
Project Name: <u>CCR - Plant Wansley App IV Scan Event</u> Site: <u>Georgia</u>		Project #: <u>18019922</u> SSOW#:		Special Instructions/Note:							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastel/oli, BT=Tissue, A=Air)	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	Total Number of Containers
<u>WGWC-19</u>	<u>2-28-19</u>	<u>1125</u>	<u>G</u>	<u>Water</u>	<u>Water</u>	<u>X</u>	<u>X</u>	<u>✓</u>	<u>✓</u>		<u>3</u>
<u>EB-2-2-28-19</u>	<u>2-28-19</u>	<u>1130</u>	<u>G</u>	<u>Water</u>	<u>Water</u>	<u>X</u>	<u>X</u>	<u>✓</u>	<u>✓</u>		<u>3</u>
<u>FB-2-2-28-19</u>	<u>2-28-19</u>	<u>1040</u>	<u>G</u>	<u>Water</u>	<u>Water</u>	<u>X</u>	<u>X</u>	<u>✓</u>	<u>✓</u>		<u>3</u>
				<u>Water</u>							
				<u>Water</u>							
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				<u>Water</u>							
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:					
Empty Kit Relinquished by:						Method of Shipment:					
Relinquished by: <u>[Signature]</u> Date/Time: <u>2/28/19 1345</u> Company: <u>ACC</u>						Received by: <u>[Signature]</u> Date/Time:					
Relinquished by: <u>[Signature]</u> Date/Time: <u>2/28/19 1610</u> Company: <u>TA</u>						Received by: <u>[Signature]</u> Date/Time: <u>3/1/19 6910</u> Company: <u>MSA</u>					
Relinquished by:						Received by:					
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No						Cooler Temperature(s) °C and Other Remarks:					





# 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

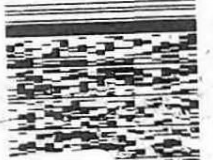
BILL RECIPIENT

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

FedEx  
Express



FRI - 01 MAR 3:00P  
STANDARD OVERNIGHT

1 of 5  
TRK# 4651 0080 7291  
# MASTER #

NA AGCA 15238  
PA-US PIT

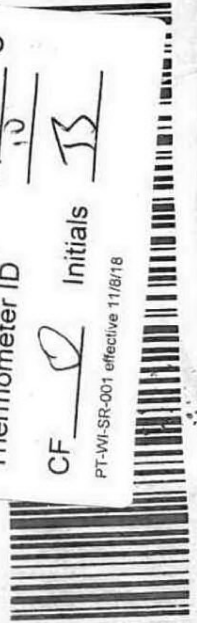
Uncorrected temp  
Thermometer ID

1.9 °C

CF Initials

13

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



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**Custody S**

DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

**FedEx**  
Express

**E**

**AGCA**

2 of 5  
0080 7306  
0080 7291

0201

1523

PA-US

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING  
722397

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 RECIPIENT

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<sup>PT97</sup><sub>R2</sub>

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 MAY 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  
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

AA AGCA  
FRI - 01 MAR 3:00P  
STANDARD OVERNIGHT  
FRI - 01 MAR AA  
STANDARD OVERNIGHT

15238  
PA-US  
PIT

Uncorrected temp 19 °C  
Thermometer ID 10  
CF 0 Initials JS

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

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

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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 <=/ 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	



## 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 </= 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	



## 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 <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	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	



## 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](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

PA Lab ID: 02-00416





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# Case Narrative

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

Job ID: 180-88630-1  
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										

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# 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										

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# 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										

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# 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
<b>Chloride</b>	<b>4.0</b>		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
<b>Barium</b>	<b>0.044</b>		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
<b>Cobalt</b>	<b>0.00079 J</b>		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
<b>Lithium</b>	<b>0.0044 J</b>		0.0050	0.0011	mg/L		04/15/19 16:45	04/17/19 06:22	5
<b>Calcium</b>	<b>1.0</b>		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
<b>Chloride</b>	<b>1.7</b>		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
<b>Sulfate</b>	<b>0.94 J</b>		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
<b>Barium</b>	<b>0.016</b>		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
<b>Cobalt</b>	<b>0.00046 J</b>		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
<b>Lithium</b>	<b>0.0016 J</b>		0.0050	0.0011	mg/L		04/15/19 16:45	04/17/19 06:26	5
<b>Calcium</b>	<b>1.1</b>		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
<b>Molybdenum</b>	<b>0.0026</b>	<b>J</b>	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
<b>Selenium</b>	<b>0.0019</b>		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
<b>Lithium</b>	<b>0.035</b>		0.0050	0.0011	mg/L		04/15/19 16:45	04/17/19 07:02	5
<b>Calcium</b>	<b>7.2</b>		0.25	0.13	mg/L		04/15/19 16:45	04/17/19 07:02	5
<b>Boron</b>	<b>0.35</b>		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
<b>Total Dissolved Solids</b>	<b>120</b>		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
<b>Chloride</b>	<b>70</b>		1.0	0.71	mg/L			04/15/19 16:32	1
<b>Fluoride</b>	<b>0.50</b>		0.20	0.026	mg/L			04/15/19 16:32	1
<b>Sulfate</b>	<b>180</b>		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
<b>Barium</b>	<b>0.0010</b>	<b>J</b>	0.0025	0.00049	mg/L		04/16/19 18:10	04/17/19 15:23	5
<b>Beryllium</b>	<b>0.0019</b>	<b>J</b>	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
<b>Cobalt</b>	<b>0.0037</b>		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
<b>Selenium</b>	<b>0.0031</b>		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
<b>Lithium</b>	<b>0.015</b>		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 15:23	5
<b>Calcium</b>	<b>61</b>		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 15:23	5
<b>Boron</b>	<b>1.7</b>		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
<b>Total Dissolved Solids</b>	<b>430</b>		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

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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: 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

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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: 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
<b>Selenium</b>	<b>0.0028</b>		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
<b>Lithium</b>	<b>0.015</b>		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 15:56	5
<b>Calcium</b>	<b>60</b>		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 15:56	5
<b>Boron</b>	<b>1.7</b>		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
<b>Total Dissolved Solids</b>	<b>430</b>		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
<b>Chloride</b>	<b>2.4</b>		1.0	0.71	mg/L			04/15/19 18:39	1
<b>Fluoride</b>	<b>0.059</b>	<b>J</b>	0.20	0.026	mg/L			04/15/19 18:39	1
<b>Sulfate</b>	<b>0.89</b>	<b>J</b>	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
<b>Arsenic</b>	<b>0.0012</b>	<b>J</b>	0.0013	0.00046	mg/L		04/16/19 18:10	04/17/19 15:59	5
<b>Barium</b>	<b>0.038</b>		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
<b>Cobalt</b>	<b>0.0011</b>	<b>J</b>	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
<b>Lithium</b>	<b>0.0057</b>		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 15:59	5
<b>Calcium</b>	<b>17</b>		0.25	0.13	mg/L		04/16/19 18:10	04/17/19 15:59	5
<b>Boron</b>	<b>0.038</b>	<b>J</b>	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
<b>Total Dissolved Solids</b>	<b>98</b>		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
<b>Chloride</b>	<b>2.4</b>		1.0	0.71	mg/L			04/15/19 18:55	1
<b>Fluoride</b>	<b>0.061</b>	<b>J</b>	0.20	0.026	mg/L			04/15/19 18:55	1
<b>Sulfate</b>	<b>1.0</b>		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
<b>Barium</b>	<b>0.027</b>		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
<b>Cobalt</b>	<b>0.00082</b>	<b>J</b>	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
<b>Lithium</b>	<b>0.0055</b>		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 16:23	5
<b>Calcium</b>	<b>12</b>		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
<b>Total Dissolved Solids</b>	<b>63</b>		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
<b>Chloride</b>	<b>1.9</b>		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
<b>Sulfate</b>	<b>0.40</b>	<b>J</b>	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
<b>Barium</b>	<b>0.011</b>		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
<b>Calcium</b>	<b>1.1</b>		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
<b>Total Dissolved Solids</b>	<b>15</b>		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

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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: 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

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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-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
<b>Lithium</b>	<b>0.0075</b>		0.0050	0.0011	mg/L		04/16/19 18:10	04/17/19 16:44	5
<b>Calcium</b>	<b>14</b>		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
<b>Total Dissolved Solids</b>	<b>66</b>		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
<b>Chloride</b>	<b>3.3</b>		1.0	0.71	mg/L			04/16/19 06:00	1
<b>Fluoride</b>	<b>0.048</b>	<b>J</b>	0.20	0.026	mg/L			04/16/19 06:00	1
<b>Sulfate</b>	<b>1.9</b>		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
<b>Barium</b>	<b>0.035</b>		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
<b>Cobalt</b>	<b>0.00081</b>	<b>J</b>	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
<b>Calcium</b>	<b>1.7</b>		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
<b>Chloride</b>	<b>1.2</b>		1.0	0.71	mg/L			04/16/19 07:02	1
<b>Fluoride</b>	<b>0.24</b>		0.20	0.026	mg/L			04/16/19 07:02	1
<b>Sulfate</b>	<b>3.8</b>		1.0	0.38	mg/L			04/16/19 07:02	1

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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-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
<b>Arsenic</b>	<b>0.00053</b>	<b>J</b>	0.0013	0.00046	mg/L	-	04/16/19 18:10	04/17/19 16:51	5
<b>Barium</b>	<b>0.056</b>		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
<b>Lead</b>	<b>0.00047</b>	<b>J</b>	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
<b>Calcium</b>	<b>4.7</b>		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
<b>Total Dissolved Solids</b>	<b>72</b>		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
<b>Chloride</b>	<b>2.4</b>		1.0	0.71	mg/L	-		04/16/19 07:17	1
<b>Fluoride</b>	<b>0.048</b>	<b>J</b>	0.20	0.026	mg/L	-		04/16/19 07:17	1
<b>Sulfate</b>	<b>3.8</b>		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
<b>Barium</b>	<b>0.026</b>		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
<b>Cobalt</b>	<b>0.0056</b>		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
<b>Thallium</b>	<b>0.00012</b>	<b>J</b>	0.00050	0.000085	mg/L	-	04/16/19 18:10	04/17/19 16:56	5
<b>Lithium</b>	<b>0.0015</b>	<b>J</b>	0.0050	0.0011	mg/L	-	04/16/19 18:10	04/17/19 16:56	5
<b>Calcium</b>	<b>0.84</b>		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
<b>Total Dissolved Solids</b>	<b>31</b>		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

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# 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

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# 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

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# 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	

<b>Client Information</b> Client Contact: Jordan Benstorf Phone: 770-594-5998 E-Mail: <i>Veronica.Benstorf@testamerica.com</i>		Lab PM: <i>Veronica Benstorf</i> E-Mail: <i>Veronica.Benstorf@testamerica.com</i>		Carrier Tracking No(s): Job #:		COC No: Page: Job #:			
Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: PO #: SCS10347656 WO #:		Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #:		Analysis Requested (See list below) Detected App IV Metals (EPA 300.0 & SM 2540C) C, F, SO <sub>4</sub> & TDS Metals App. III (EPA 6020/470) Field Filtered Sample (Yes or No)		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 L - EDTA Z - other (specify) Other:			
Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Project #: 40007709 SSOW#:		Matrix (W=Water, S=solid, O=organic, BT=Tissue, A=Au)		Total Number of Containers APP III			
Sample Identification wGWA-1 wGWA-5 wGWA-6 FB-1-4-2-19 wGWA-18 wGWC-9 wGWC-8 wGWC-17 FB-2-4-4-19 wGWC-10 Dvp-2-4-3-19		Sample Date 4-1-19 4-2-19 4-2-19 4-2-19 4-2-19 4-3-19 4-3-19 4-4-19 4-4-19 4-4-19 -		Sample Time 1345 1130 1315 1210 1425 1340 1450 0955 0940 1135 -		Sample Type (C=Comp, G=grab) G 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	
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 type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Method of Shipment:		Date/Time:			
Relinquished by: <i>[Signature]</i>		Date/Time: 4/4/19 1435		Received by: <i>[Signature]</i>		Date/Time: 4-4-19 1435			
Relinquished by: <i>[Signature]</i>		Date/Time: 4-4-19 1513		Received by: <i>[Signature]</i>		Date/Time: 4-5-19			
Relinquished by: <i>[Signature]</i>		Date/Time:		Received by:		Date/Time: 900			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Company: ACC Company: ACC Company: ACC			





**Chain of Custody Record**

681-Atlanta

<b>Client Information</b>		Lab P#:	Carrier Tracking No(s):	
Client Contact: Joju Abraham	Sampler: <b>O. FUQUEA</b>	Lab P#:	Veronica Bertot	
Company: Southern Company	Phone: <b>(770) 598-5998</b>	E-Mail:	Veronica.Bertot@testamerica.com	
Address: PO BOX 2641 GSC8	Due Date Requested:	Analysis Requested		
City: Birmingham	TAT Requested (days):	Total Number of Containers		
State, Zip: AL, 35291	PO #:	Detected App IV Metals		
Phone:	SCS10347656	C1, F, SO <sub>4</sub> & TDS		
Email: JAbraham@southernco.com	WO #:	Metals App. III (EPA 6020/470)		
Project Name: CCR - Plant Wansley - Ash Pond	Project #: 40007709	Perform MS/MSD (Yes or No)		
Site: Georgia	Site SOW#:	Field Filtered Sample (Yes or No)		
<b>Sample Identification</b>	<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=wastewater, B=issue, A=air)</b>
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 <sup>am</sup>	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 <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:				
Relinquished by: <i>[Signature]</i> Date: 4-4-19 1935 Company: ACC				
Relinquished by: <i>[Signature]</i> Date: 4-4-19 1513 Company: <i>[Signature]</i>				
Relinquished by: <i>[Signature]</i> Date: 4-4-19 900 Company: <i>[Signature]</i>				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				
Custody Seal No.:				
Cooler Temperature(s) °C and Other Remarks:				









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 BS

PITTSBURGH 001 effective 1/18/98

4 of 5  
651 008  
651 0081

AC



180-88630 Waybill

- 1
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- 13



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13



**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  
a



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN: D. 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/CAPE

BILL RECIPIENT

FedEx



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

- 1
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- 13



**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

692589

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

THE LEADER IN ENVIRONMENTAL TESTING

BILL RECIPIENT  
SHIP ORIGIN: 60 344P19  
RATING: 85  
GPO: 850116/0423211

614P111  
966-996

ORIGIN: 10:11:4  
GEORGE TYLOR  
6500 INDEPENDENCE DR  
PITTSBURGH PA 15112  
(724) 966-996

TO: SAMPLE RECEIVING  
301 ALPHA DRIVE  
PITTSBURGH PA 15138



FRI - 05 APR 3:00P  
STANDARD OVERNIGHT  
15238  
PIT

1 of 5  
TR# 4651 0081 1088

**NA AGCA**

TR# 4651 0081 1088

1 of 5

NA AGCA

Uncorrected temp  
Thermometer ID  
Initials  
CF

1.2 / 1.2 °C

1001 DIRECTING 18718

- 1
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## 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 <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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 <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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 <math><6\text{mm}</math> (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](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

PA Lab ID: 02-00416



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# Case Narrative

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

Job ID: 180-88630-2  
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										

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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: 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										

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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: 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										

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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: 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										

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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: 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

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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: 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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	106		40 - 110					04/22/19 12:54	05/18/19 19:04	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-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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	98.3		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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	98.3		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

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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-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

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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-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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	95.2		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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	95.2		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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.4		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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	92.4		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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	98.3		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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	95.5		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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	95.5		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**

**Lab Sample ID: 180-88630-17**

Date Collected: 04/02/19 14:55

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	0.209	U	0.226	0.227	5.00	0.365	pCi/L		05/30/19 08:50	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: 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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	95.2		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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	95.2		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**

**Lab Sample ID: 180-88630-19**

Date Collected: 04/03/19 12:20

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	0.0623	U	0.0651	0.0653	1.00	0.102	pCi/L	04/22/19 15:16	05/18/19 13:07	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	99.7		40 - 110					04/22/19 15:16	05/18/19 13:07	1



# 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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	99.7		40 - 110					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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	97.5		40 - 110					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
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	97.5		40 - 110					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

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



<b>Client Information</b> Client Contact: Jordan Benstorf Phone: 770-594-5998 E-Mail: <i>Veronica.Benstorf@testamerica.com</i>		Lab PM: <i>Veronica Benstorf</i> E-Mail: <i>Veronica.Benstorf@testamerica.com</i>		Carrier Tracking No(s): Job #:		COC No: Page: Job #:						
Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: PO #: SCS10347656 WO #: JABraham@southernco.com Project Name: CCR - Plant Wansley - Ash Pond Site: Georgia		Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: JABraham@southernco.com Project #: 40007709 SSOW#:		Analysis Requested (See list below) Detected App IV Metals (EPA 300.0 & SM 2540C) C, F, SO <sub>4</sub> & TDS Metals App. III (EPA 6020/7470) Perform MS/MSD (Yes or No)		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 - Other (specify)						
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=organic, BT=tissue, A=Au)	Field Filtered Sample (Yes or No)	Metals App. III (EPA 6020/7470)	C, F, SO <sub>4</sub> & TDS	Metals App. IV Metals (EPA 300.0 & SM 2540C)	Detected App IV Metals (See list below)	Radium 226 & 228 (SW-846 9315/9320)	Total Number of Containers	Spec:
WGA-1	4-1-19	1345	G	W	W	W	W	W	W	W	3	APP III
WGA-5	4-2-19	1130	G	W	W	W	W	W	W	W	3	
WGA-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	
WGA-18	4-2-19	1425	G	W	W	W	W	W	W	W	3	
WGC-9	4-3-19	1340	G	W	W	W	W	W	W	W	3	
WGC-8	4-3-19	1450	G	W	W	W	W	W	W	W	3	
WGC-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	
WGC-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	



180-88630-01 Chain of Custody

Received by: *ACC* Company  
 Date/Time: *4/4/19 1435*  
 Received by: *Jordan Benstorf* Company  
 Date/Time: *4-5-19*  
 Received by: *JAB* Company  
 Date/Time: *900*

Special Instructions/QC Requirements:  
 Return To Client  Disposal By Lab  Archive For  Months  
 Method of Shipment:  
 Cooler Temperature(s) °C and Other Remarks:

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:  
 Relinquished by: *ACC* Company  
 Date/Time: *4/4/19 1435*  
 Relinquished by: *Jordan Benstorf* Company  
 Date/Time: *4-5-19 1513*  
 Relinquished by: *JAB* Company  
 Date/Time: *900*

Custody Seal No.:  
 Custody Seals Intact:  
 Yes  No



<b>Client Information</b>		Lab P#:	Carrier Tracking No(s):										
Client Contact: Joji Abraham	Sampler: O. FUQUEA	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):												
State, Zip: AL, 35291	PO #:												
Phone:	SCS10347656												
Email: JAbraham@southernco.com	WO #:												
Project Name: CCR - Plant Wansley - Ash Pond	Project #: 40007709												
Site: Georgia	SOW#:												
<b>Sample Identification</b> DUP-1 WGW-2 WGW-7 WGW-4 WGW-3 WGW-19 WGW-12 WGW-11 WGW-13 WGW-14A EB-1-4-3-19	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, B=issue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Metals App. III (EPA 602/7470)	Cd, Pb, Cu, Ni, Zn, Fe, Mn, Al, TDS	Detected App IV Metals (See list below)	Radium 226 & 228 (SW-846 9315/9320)	Total Number of Containers	Special II	
											3	APP III	
		4-1-19	1450	G	W	N						3	
		4-2-19	1115	G	W	N						3	
		4-2-19	1245	G	W	N						3	
		4-2-19	1350	G	W	N						3	
		4-2-19	1455	G	W	N						3	
		4-3-19	1100	G	W	N						3	
		4-3-19	1220	G	W	N						3	
		4-3-19	1320	G	W	N						3	
	4-3-19	1435	G	W	N						3		
	4-3-19	0930	G	W	N						3		
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:								
Empty Kit Relinquished by:					Method of Shipment:								
Relinquished by: <i>[Signature]</i>					Date/Time: 4-4-19 1935 Company ACC								
Relinquished by: <i>[Signature]</i>					Date/Time: 4-4-19 1513 Company								
Relinquished by: <i>[Signature]</i>					Date/Time: 4-5-19 900 Company								
Custody Seals Intact: Δ Yes Δ No					Cooler Temperature(s) °C and Other Remarks:								





<b>Client Information</b> 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)		Total Number of Containers 3 3 3		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)		Special Instructions/Note: APP III 180-88630-03 Chain of Custody	
Sample Identification WGWC-15 WGWC-16 FB-2-4-4-19		Sample Date 4-4-19 4-4-19 4-4-19		Sample Time 1035 1140 1200		Sample Type 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: Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date: 4-4-19 4-4-19 4-4-19		Method of Shipment: Received by: [Signature] Received by: Debra Watson Received by: [Signature]		Date/Time: 4-4-19 4-4-19 4-4-19		Company: ACC Company Company	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		900		Company:	





ENVIRONMENTAL TEST

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



1  
2  
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12  
13



**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

301 ALPHA DRIVE  
RDG PARK  
PITTSBURGH PA 15238

SAMPLE RECEIVING

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**

RT 97  
Z1  
16:00  
17:03  
04:05  
A  
NG  
10/19



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN: D. TULA (678) 966-9991  
GEORGE W. OR  
EUROFINS TESTAMERICA, ATLANTA  
6500 NICHOLSON DRIVE

GA 30093  
UNITED STATES US  
**SAMPLE RECEIVING**  
**1A PITTSBURGH**  
**ALPHA DRIVE**  
**ELITE 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

- 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: 692589  
SHIP TO: 692589  
SHIP TO: 692589  
SHIP TO: 692589

692589 (728) 966-993  
692589 (728) 966-993

ORIGIN: 10:11:4  
GEORGE TYLER  
6500 INDEPENDENCE DRIVE  
NORFOLK, VA 23502  
NORFOLK, VA 23502  
NORFOLK, VA 23502

TO: SAMPLE RECEIVING  
301 ALPHA DRIVE  
PITTSBURGH PA 15138

REF: SOUTHERN CO  
PITTSBURGH PA 15138



FRI - 05 APR 3:00P  
STANDARD OVERNIGHT  
15238  
PIT

1 of 5  
TR# 4651 0081 1088

**NA AGCA**

TR# 4651 0081 1088

1 of 5

NA AGCA

1.2  
1.2

Uncorrected temp  
Thermometer ID  
Initials

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**



**eurofins** Environment Testing  
 TestAmerica

**Client Information (Sub Contract Lab)**

Client Contact: **Bortol, Veronica** Lab P/N: **Bortol, Veronica**

Shipping/Receiving: **veronica.bortol@testamericainc.com** E-Mail: **veronica.bortol@testamericainc.com** State of Origin: **Georgia**

Company: **TestAmerica Laboratories, Inc.** Accreditations Required (See note):

Address: **13715 Rider Trail North** Due Date Requested: **4/17/2019**

City: **Earth City** TAT Requested (days):

State, Zip: **MO, 63045**

Phone: **314-298-8566(Tel) 314-298-9757(Fax)** PO #:

Email: **WO #:**

Project Name: **CCR - Plant Wansley** Project #: **18019922**

Site: **CCR - Plant Wansley Lanfill** SSO#:

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)		Analysis Requested	Total Number of containers	Special Instructions/Note:
					BT=Tissue, AA=Air	Preservation Code:	9315_Ra228/PrecSep_21 Standard Target List	9320_Ra228/PrecSep_0 Standard Target List			
WGWA-1 (180-88630-1)	4/1/19	13:45	Water	Water	X	X	X	X		1	
WGWA-5 (180-88630-2)	4/2/19	11:30	Water	Water	X	X	X	X		1	
WGWA-6 (180-88630-3)	4/2/19	13:15	Water	Water	X	X	X	X		1	
FB-1-4-2-19 (180-88630-4)	4/2/19	12:10	Water	Water	X	X	X	X		1	
WGWA-18 (180-88630-5)	4/2/19	14:25	Water	Water	X	X	X	X		1	
WGWC-9 (180-88630-6)	4/3/19	13:40	Water	Water	X	X	X	X		1	
WGWC-8 (180-88630-7)	4/3/19	14:50	Water	Water	X	X	X	X		1	
WGWC-17 (180-88630-8)	4/4/19	09:55	Water	Water	X	X	X	X		1	
EB-2-4-19 (180-88630-9)	4/4/19	09:40	Water	Water	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 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 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:**

Relinquished by: **Date/Time:** **Company:** **Received by:** **Date/Time:** **Company:**

Relinquished by: **Date/Time:** **Company:** **Received by:** **Date/Time:** **Company:**

Custody Seals Intact: **Δ Yes Δ No** Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		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.		State of Origin: Georgia		Job #: 180-88630-2			
Address: 13715 Rider Trail North, Earth City, MO, 63045		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: 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)			
Due Date Requested: 4/17/2019		Analysis Requested		Total Number of Containers			
TAT Requested (days):		Field Filtered Sample (Yes or No)		Special Instructions/Note:			
PO #:		Perform MS/MSD (Yes or No)		180-88630-01 Chain of Custody 			
WO #:		9315_Ra228/PreSep_21 Standard Target List					
Project #:		9320_Ra228/PreSep_0 Standard Target List					
SSOW#:		R4226Ra228_GFPC					
Sample ID (Lab ID)		Sample Time				Sample Date	
Sample Type (C=Comp, G=grab)		Sample Time				Sample Date	
Matrix (W=water, S=solid, O=soil, BT=TSMP, A=Air)		Sample Time				Sample Date	
Preservation Code:		Sample Time				Sample Date	
WGWC-10 (180-88630-10)		11:35 Eastern				4/4/19	
DUP-2-4-3-19 (180-88630-11)		Eastern				4/4/19	
DUP-1 (180-88630-12)		Eastern		4/4/19			
WGWA-2 (180-88630-13)		14:50 Eastern		4/1/19			
WGWA-7 (180-88630-14)		11:15 Eastern		4/2/19			
WGWA-4 (180-88630-15)		12:45 Eastern		4/2/19			
WGWA-3 (180-88630-16)		13:50 Eastern		4/2/19			
WGWC-19 (180-88630-17)		14:55 Eastern		4/2/19			
WGWC-12 (180-88630-18)		11:05 Eastern		4/3/19			

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

<b>Possible Hazard Identification</b>	
Unconfirmed	
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	
Empty Kit Relinquished by:	
Relinquished by: <i>[Signature]</i>	Date: 4/11/19 17:00
Relinquished by:	Date/Time:
Relinquished by:	Date/Time:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:

<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>	
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Special Instructions/QC Requirements:	
Received by: <i>Michael Flynn</i>	Date/Time: 4-11-19 09:10
Received by:	Date/Time:
Received by:	Date/Time:
Company: <i>PARA</i>	Company: <i>PARA</i>
Company:	Company:
Company:	Company:
Cooler Temperature(s) °C and Other Remarks:	





<b>Client Information (Sub Contract Lab)</b>		Sampler: Lab P#:	Bortot, Veronica	Carrier Tracking No(s):	COC No: 180-359809.3
Client Contact:		Phone:	E-Mail:	State of Origin:	Page: Page 3 of 3
Shipping/Receiving		Company:		Accreditations Required (See note):	Job #: 180-88630-2
TestAmerica Laboratories, Inc.		13715 Rider Trail North, Earth City MO, 63045		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:	
Due Date Requested: 4/17/2019		TAT Requested (days):		<b>Analysis Requested</b>	
PO #:	WO #:	Project #:	SSOW#:	Total Number of containers	
18019922		18019922		1	
Project Name: CCR - Plant Wansley		Site: CCR - Plant Wansley Lanfill		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, BT=TISSUE, A=Air)
WGWC-11 (180-88630-19)	4/3/19	12:20 Eastern	Water	Water	
WGWC-13 (180-88630-20)	4/3/19	13:20 Eastern	Water	Water	
WGWC-14A (180-88630-21)	4/3/19	14:35 Eastern	Water	Water	
WGWC-15 (180-88630-23)	4/4/19	10:35 Eastern	Water	Water	
WGWC-16 (180-88630-24)	4/4/19	11:40 Eastern	Water	Water	
FB-2-4-4-19 (180-88630-25)	4/4/19	12:00 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. I					
<b>Possible Hazard Identification</b>					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by:					
Relinquished by: <i>[Signature]</i> Date: 4/11/19					
Relinquished by: <i>[Signature]</i> Date: 4/11/19					
Relinquished by: <i>[Signature]</i> Date: 4/11/19					
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Custody Seal No.:					
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: <i>[Signature]</i> Date: 4-12-19					
Received by: <i>[Signature]</i> Date: 09/10					
Received by: _____ Date: _____					
Cooler Temperature(s) °C and Other Remarks:					





**Chain of Custody Record**

<b>Client Information (Sub Contract Lab)</b>		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact:		Bortol, Veronica		E-Mail:		State of Origin:		180-359806.1	
Shipping/Receiving		veronica.bortol@testamericainc.com		E-Mail:		Georgia		Page: 1 of 3	
Company:		TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #:		180-88630-2	
Address:		3355 McLemore Drive,		Due Date Requested:		Analysis Requested		Preservation Codes:	
City:		Pensacola		4/17/2019		6020/3005A (MOD) Edison TAL Metals (SOM01.2 List)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
State, Zip:		FL, 32514		TAT Requested (days):		Field Filtered Sample (Yes or No)		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (Specify)	
Phone:		850-474-1001(Tel) 850-478-2671(Fax)		PO #:		Perform MS/MSD (Yes or No)			
Email:				WO #:		Total Number of Containers			
Project Name:		CCR - Plant Wansley		Project #:		Special Instructions/Note:			
Site:		CCR - Plant Wansley Lanfill		18019922					
SSOW#:									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:	
WGWA-1 (180-88630-1)		4/1/19	13:45 Eastern	Water	Water	X	X		
WGWA-5 (180-88630-2)		4/2/19	11:30 Eastern	Water	Water	X	X		
WGWA-6 (180-88630-3)		4/2/19	13:15 Eastern	Water	Water	X	X		
FB-1-4-2-19 (180-88630-4)		4/2/19	12:10 Eastern	Water	Water	X	X		
WGWA-18 (180-88630-5)		4/2/19	14:25 Eastern	Water	Water	X	X		
WGW-9 (180-88630-6)		4/3/19	13:40 Eastern	Water	Water	X	X		
WGW-8 (180-88630-7)		4/3/19	14:50 Eastern	Water	Water	X	X		
WGW-17 (180-88630-8)		4/4/19	09:55 Eastern	Water	Water	X	X		
EB-2-4-4-19 (180-88630-9)		4/4/19	09:40 Eastern	Water	Water	X	X		

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: \_\_\_\_\_

Relinquished by: *[Signature]* Date/Time: 4/11/19 1700 Company: TA  
Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_  
Δ Yes Δ No

Received by: *[Signature]* Date/Time: 4-12-19 857 Company: TA  
Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks: 4.2 °C IR7

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: \_\_\_\_\_



# Chain of Custody Record

<b>Client Information (Sub Contract Lab)</b>		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	<b>Analysis Requested</b>			
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)			
<b>Sample Identification - Client ID (Lab ID)</b>	<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=waste/oil, BT=trace, AS=air)</b>	<b>Special Instructions/Note:</b>
WGWC-10 (180-88630-10)	4/4/19	11:35 Eastern	Water	Water	
DUP-2-4-3-19 (180-88630-11)	4/4/19	Eastern	Water	Water	
DUP-1 (180-88630-12)	4/4/19	Eastern	Water	Water	
WGWA-2 (180-88630-13)	4/1/19	14:50 Eastern	Water	Water	
WGWA-7 (180-88630-14)	4/2/19	11:15 Eastern	Water	Water	
WGWA-4 (180-88630-15)	4/2/19	12:45 Eastern	Water	Water	
WGWA-3 (180-88630-16)	4/2/19	13:50 Eastern	Water	Water	
WGWC-19 (180-88630-17)	4/2/19	14:55 Eastern	Water	Water	
WGWC-12 (180-88630-18)	4/3/19	11:05 Eastern	Water	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

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**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: 4/11/19 12:00 Company: M.P.A. Company: \_\_\_\_\_  
Received by: Katelyn R Owen Date/Time: 4-12-19 8:57 Company: T.A. Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact: \_\_\_\_\_ Cooler Temperature(s) °C and Other Remarks: 4.2 °C IR7





**Chain of Custody Record**

<b>Client Information (Sub Contract Lab)</b> 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:		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 SSO#: Project Name: CCR - Plant Wansley Site: CCR - Plant Wansley Lanfill		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)
<b>Sample Identification - Client ID (Lab ID)</b>		Total Number of Containers
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)	Special Instructions/Note:
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) FB-2-4-4-19 (180-88630-25)	X X X X X X	1 1 1 1 1 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		
<b>Possible Hazard Identification</b> 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/QC Requirements:		
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: <i>shy</i> Date/Time: 4/11/19 12:00 Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Relinquished by: <i>Retty R Avery</i> Date/Time: 4-12-19 857 Company: <i>TA</i> Company: _____ Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: 4.2 °C FR7		

## 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 <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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 <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	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 <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	





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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 poly  
Tubing Diameter .17 in  
Tubing Length 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 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ 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

# APPENDIX B

## Statistical Analyses



# 100% ND

Date: 6/6/2019 1:00 PM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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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
<b>Boron (mg/L)</b>	<b>WGWC-16</b>	<b>0.05</b>	<b>4/4/2019</b>	<b>3.2</b>	<b>Yes</b>	<b>95</b>	<b>100</b>	<b>n/a</b>	<b>0.0002141</b>	<b>NP Inter (NDs) 1 of 2</b>
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
<b>Boron (mg/L)</b>	<b>WGWC-8</b>	<b>0.05</b>	<b>4/3/2019</b>	<b>1.7</b>	<b>Yes</b>	<b>95</b>	<b>100</b>	<b>n/a</b>	<b>0.0002141</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Boron (mg/L)</b>	<b>WGWC-9</b>	<b>0.05</b>	<b>4/3/2019</b>	<b>0.35</b>	<b>Yes</b>	<b>95</b>	<b>100</b>	<b>n/a</b>	<b>0.0002141</b>	<b>NP Inter (NDs) 1 of 2</b>
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
<b>Calcium (mg/L)</b>	<b>WGWC-16</b>	<b>52</b>	<b>4/4/2019</b>	<b>110</b>	<b>Yes</b>	<b>95</b>	<b>0</b>	<b>n/a</b>	<b>0.0002141</b>	<b>NP Inter (normality) 1 of 2</b>
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
<b>Calcium (mg/L)</b>	<b>WGWC-8</b>	<b>52</b>	<b>4/3/2019</b>	<b>61</b>	<b>Yes</b>	<b>95</b>	<b>0</b>	<b>n/a</b>	<b>0.0002141</b>	<b>NP Inter (normality) 1 of 2</b>
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
<b>Chloride (mg/L)</b>	<b>WGWC-16</b>	<b>6.05</b>	<b>4/4/2019</b>	<b>170</b>	<b>Yes</b>	<b>95</b>	<b>0</b>	<b>n/a</b>	<b>0.0002141</b>	<b>NP Inter (normality) 1 of 2</b>
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
<b>Chloride (mg/L)</b>	<b>WGWC-8</b>	<b>6.05</b>	<b>4/3/2019</b>	<b>70</b>	<b>Yes</b>	<b>95</b>	<b>0</b>	<b>n/a</b>	<b>0.0002141</b>	<b>NP Inter (normality) 1 of 2</b>
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
<b>Fluoride (mg/L)</b>	<b>WGWC-15</b>	<b>0.284</b>	<b>4/4/2019</b>	<b>0.78</b>	<b>Yes</b>	<b>111</b>	<b>56.76</b>	<b>n/a</b>	<b>0.0001605</b>	<b>NP Inter (NDs) 1 of 2</b>
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
<b>Fluoride (mg/L)</b>	<b>WGWC-19</b>	<b>0.284</b>	<b>4/2/2019</b>	<b>0.33</b>	<b>Yes</b>	<b>111</b>	<b>56.76</b>	<b>n/a</b>	<b>0.0001605</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Fluoride (mg/L)</b>	<b>WGWC-8</b>	<b>0.284</b>	<b>4/3/2019</b>	<b>0.5</b>	<b>Yes</b>	<b>111</b>	<b>56.76</b>	<b>n/a</b>	<b>0.0001605</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Fluoride (mg/L)</b>	<b>WGWC-9</b>	<b>0.284</b>	<b>4/3/2019</b>	<b>1.3</b>	<b>Yes</b>	<b>111</b>	<b>56.76</b>	<b>n/a</b>	<b>0.0001605</b>	<b>NP Inter (NDs) 1 of 2</b>
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
<b>Sulfate (mg/L)</b>	<b>WGWC-15</b>	<b>21</b>	<b>4/4/2019</b>	<b>41</b>	<b>Yes</b>	<b>95</b>	<b>26.32</b>	<b>n/a</b>	<b>0.0002141</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>WGWC-16</b>	<b>21</b>	<b>4/4/2019</b>	<b>250</b>	<b>Yes</b>	<b>95</b>	<b>26.32</b>	<b>n/a</b>	<b>0.0002141</b>	<b>NP Inter (normality) 1 of 2</b>
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

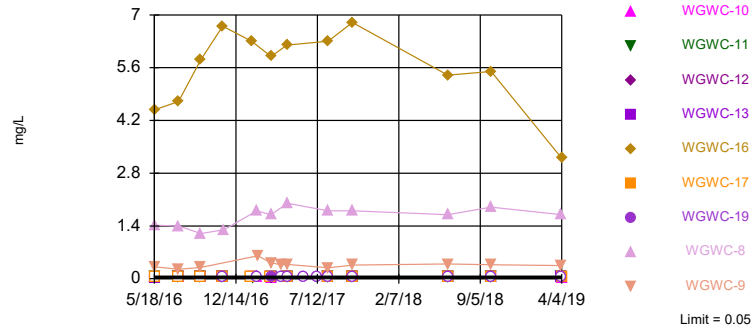
Plant Wansley    Client: Southern Company    Data: Wansley Ash Pond    Printed 6/6/2019, 1:23 PM

<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
<b>Sulfate (mg/L)</b>	<b>WGWC-8</b>	<b>21</b>	<b>4/3/2019</b>	<b>180</b>	<b>Yes</b>	<b>95</b>	<b>26.32</b>	<b>n/a</b>	<b>0.0002141</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>WGWC-9</b>	<b>21</b>	<b>4/3/2019</b>	<b>41</b>	<b>Yes</b>	<b>95</b>	<b>26.32</b>	<b>n/a</b>	<b>0.0002141</b>	<b>NP Inter (normality) 1 of 2</b>
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
<b>Total Dissolved Solids (mg/L)</b>	<b>WGWC-15</b>	<b>150</b>	<b>4/4/2019</b>	<b>170</b>	<b>Yes</b>	<b>95</b>	<b>10.53</b>	<b>n/a</b>	<b>0.0002141</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Total Dissolved Solids (mg/L)</b>	<b>WGWC-16</b>	<b>150</b>	<b>4/4/2019</b>	<b>710</b>	<b>Yes</b>	<b>95</b>	<b>10.53</b>	<b>n/a</b>	<b>0.0002141</b>	<b>NP Inter (normality) 1 of 2</b>
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
<b>Total Dissolved Solids (mg/L)</b>	<b>WGWC-8</b>	<b>150</b>	<b>4/3/2019</b>	<b>430</b>	<b>Yes</b>	<b>95</b>	<b>10.53</b>	<b>n/a</b>	<b>0.0002141</b>	<b>NP Inter (normality) 1 of 2</b>
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



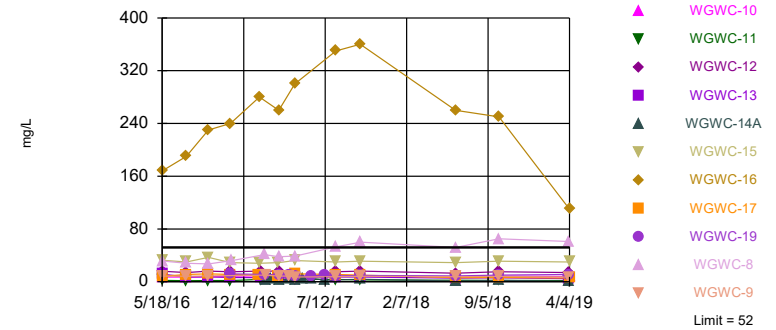
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 95) were censored; limit is most recent reporting limit. Annual per-constituent alpha = 0.004701. Individual comparison alpha = 0.0002141 (1 of 2). Comparing 9 points to limit. 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



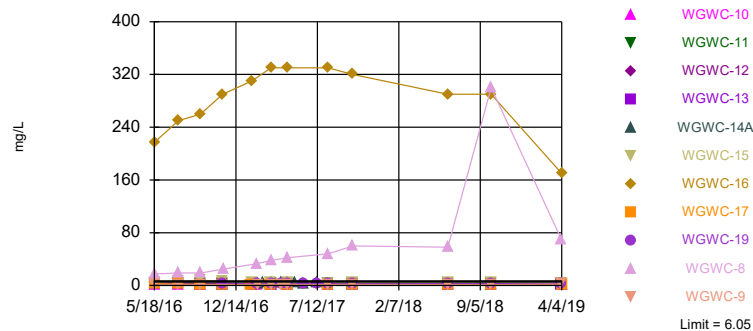
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 95 background values. Annual per-constituent alpha = 0.004701. Individual comparison alpha = 0.0002141 (1 of 2). Comparing 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



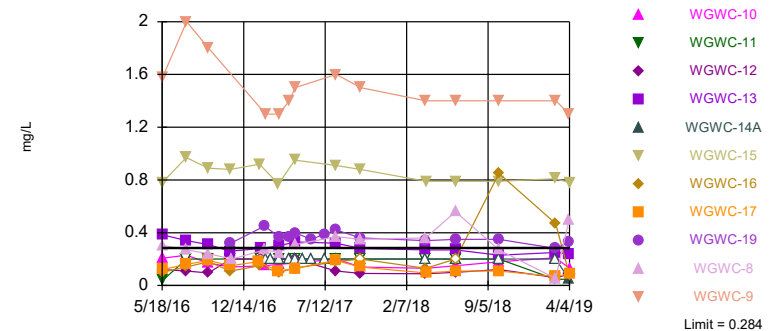
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 95 background values. Annual per-constituent alpha = 0.004701. Individual comparison alpha = 0.0002141 (1 of 2). Comparing 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

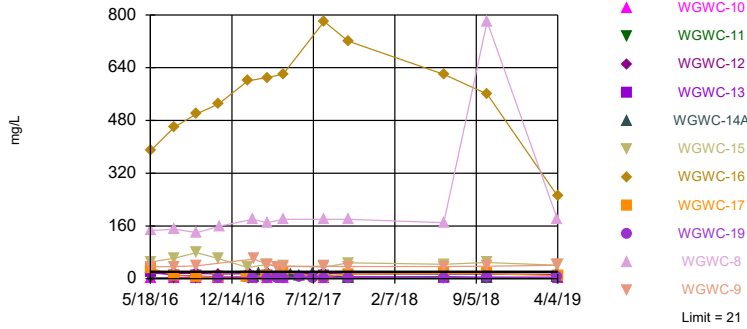


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 111 background values. 56.76% NDs. Annual per-constituent alpha = 0.003525. Individual comparison alpha = 0.0001605 (1 of 2). Comparing 11 points to limit.

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



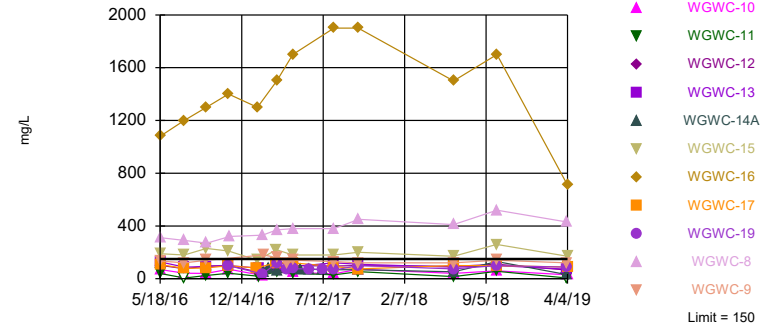
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 95 background values. 26.32% NDs. Annual per-constituent alpha = 0.004701. Individual comparison alpha = 0.0002141 (1 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

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	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

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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	



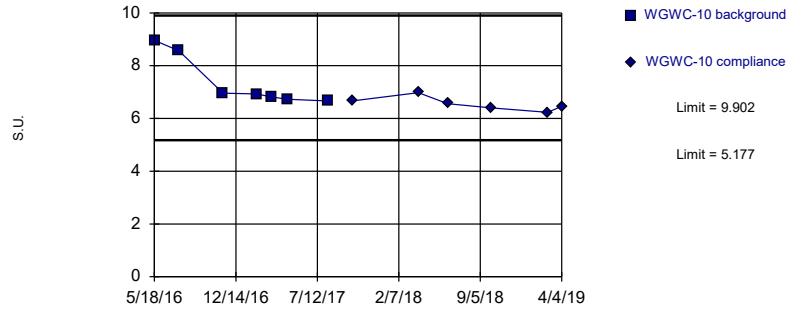
# Intrawell Prediction Limit

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

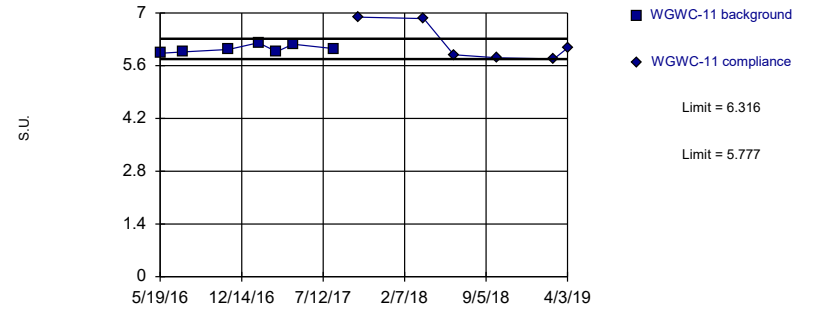


Background Data Summary (based on square root transformation): Mean=2.711, Std. Dev.=0.1724, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7339, critical = 0.73. Kappa = 2.527 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

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

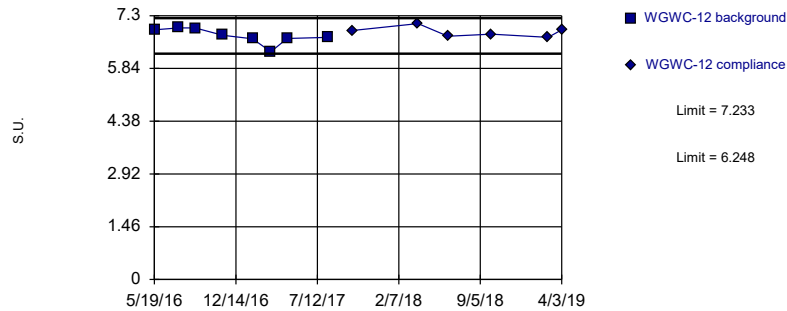


Background Data Summary: Mean=6.047, Std. Dev.=0.1066, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.899, critical = 0.73. Kappa = 2.527 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

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

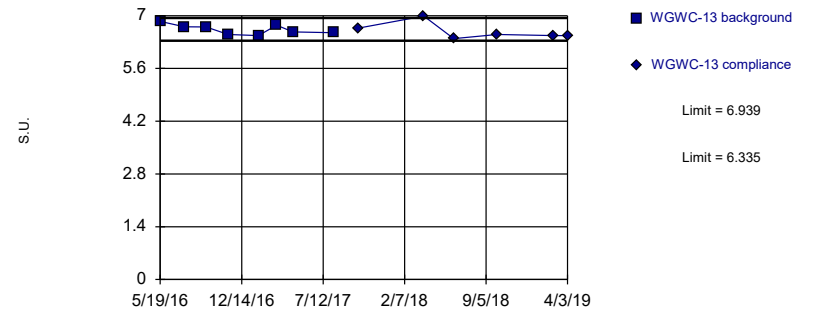


Background Data Summary: Mean=6.74, Std. Dev.=0.2184, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8774, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

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

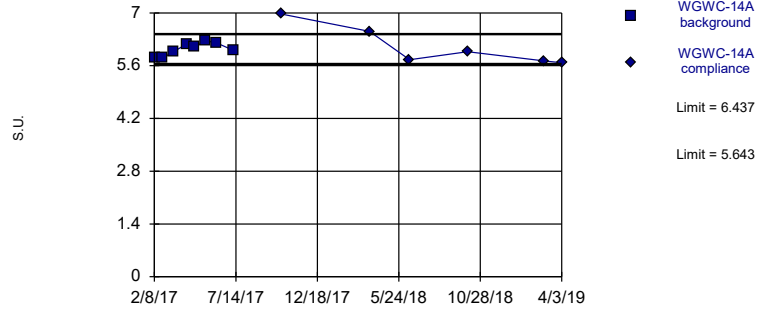


Background Data Summary: Mean=6.637, Std. Dev.=0.1339, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9399, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

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

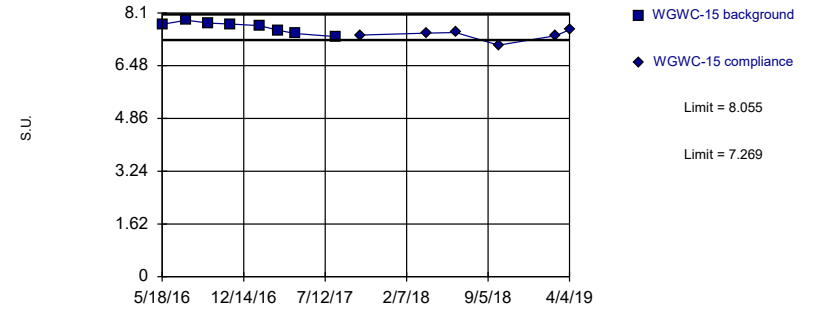


Background Data Summary: Mean=6.04, Std. Dev.=0.1758, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9217, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

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

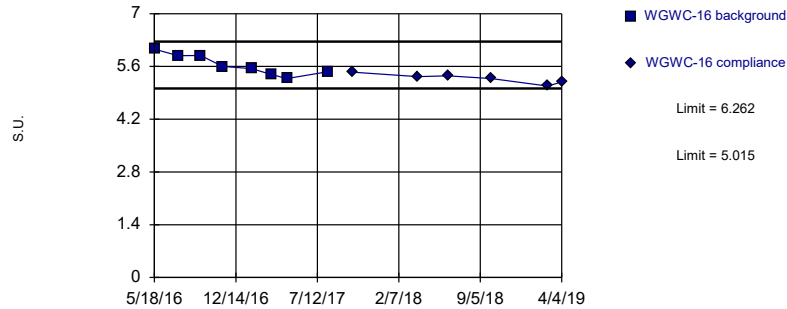


Background Data Summary: Mean=7.662, Std. Dev.=0.1742, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9232, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

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

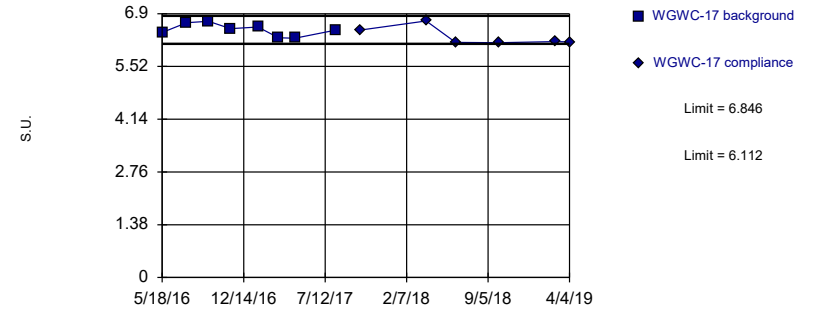


Background Data Summary: Mean=5.638, Std. Dev.=0.2764, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9364, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

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

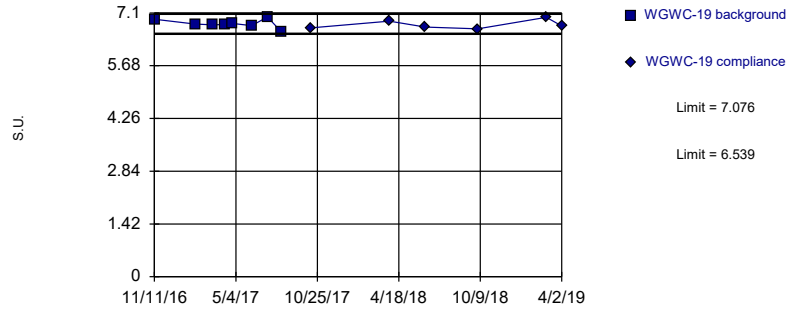


Background Data Summary: Mean=6.479, Std. Dev.=0.1626, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9405, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

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

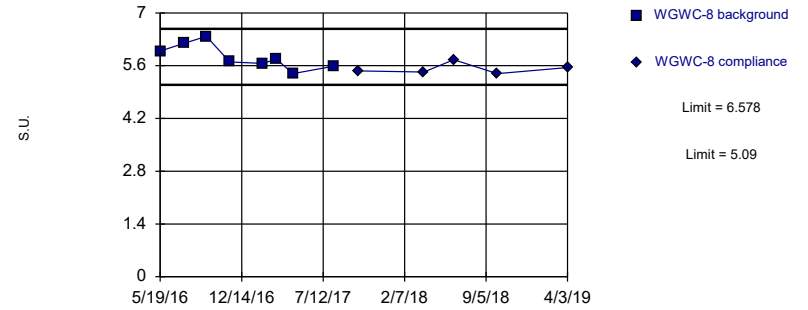


Background Data Summary: Mean=6.808, Std. Dev.=0.119, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9284, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

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

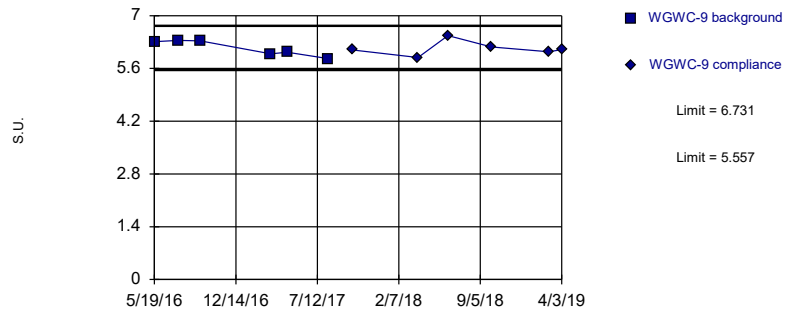


Background Data Summary: Mean=5.834, Std. Dev.=0.3298, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9531, critical = 0.749. Kappa = 2.256 (c=7, w=11, 1 of 3, event alpha = 0.05132). Report alpha = 0.0006839.

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)
<b>Lithium (mg/L)</b>	<b>WGWC-10</b>	<b>0.01978</b>	<b>0.009083</b>	<b>0.009</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>

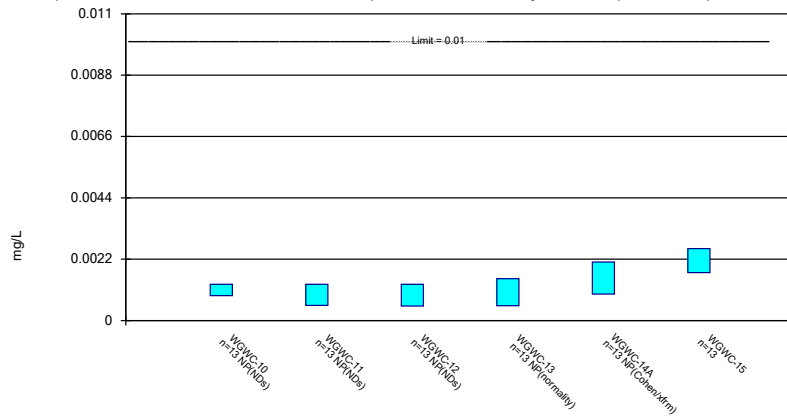
# Confidence Interval

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.
<b>Lithium (mg/L)</b>	<b>WGWC-19</b>	<b>0.062</b>	<b>0.045</b>	<b>0.009</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>NP (normality)</b>
<b>Lithium (mg/L)</b>	<b>WGWC-8</b>	<b>0.026</b>	<b>0.012</b>	<b>0.009</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>NP (normality)</b>
<b>Lithium (mg/L)</b>	<b>WGWC-9</b>	<b>0.04006</b>	<b>0.03156</b>	<b>0.009</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
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

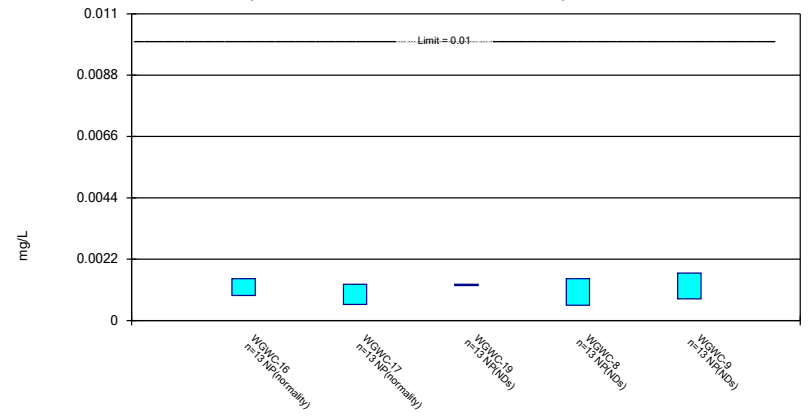
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

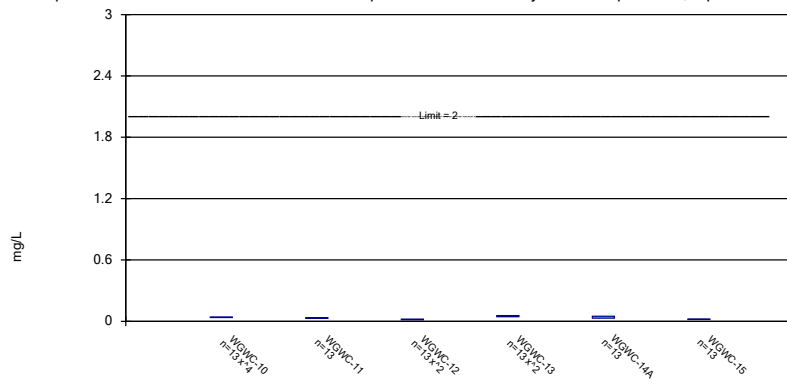
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

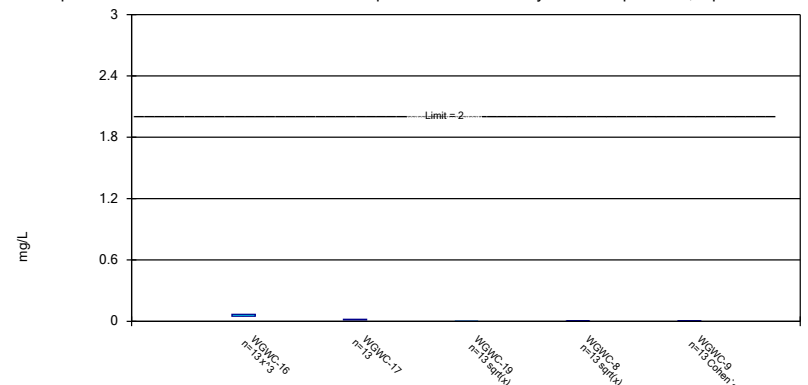
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

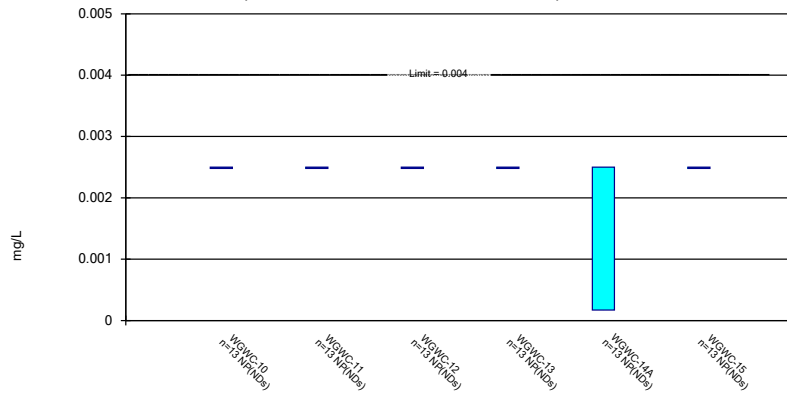
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

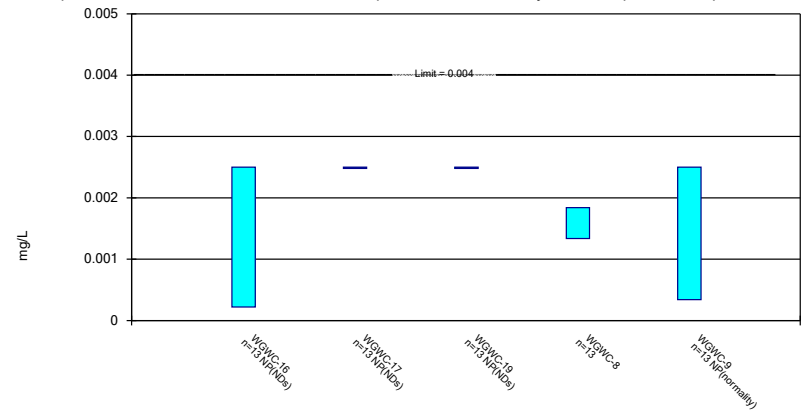
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

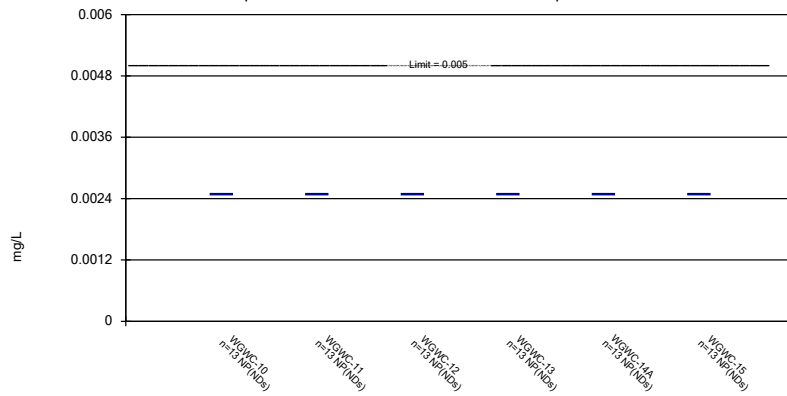
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

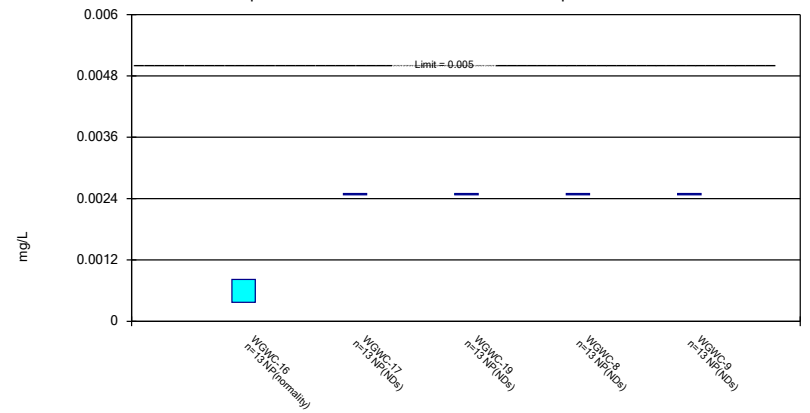
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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.

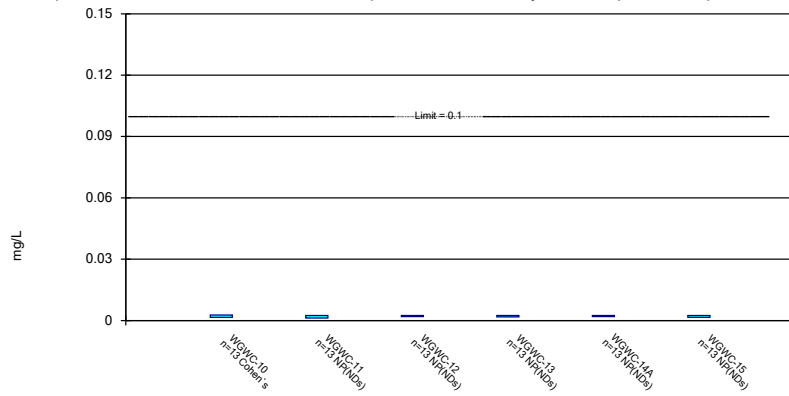


Constituent: Cadmium Analysis Run 6/6/2019 1:54 PM View: Confidence Interval  
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond



### Parametric and Non-Parametric (NP) Confidence Interval

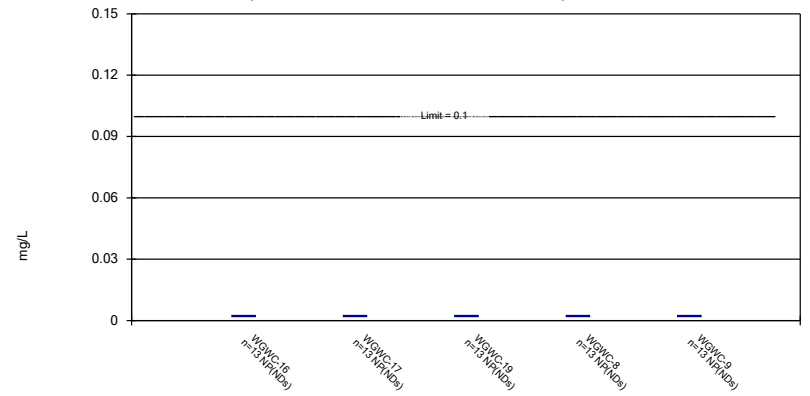
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

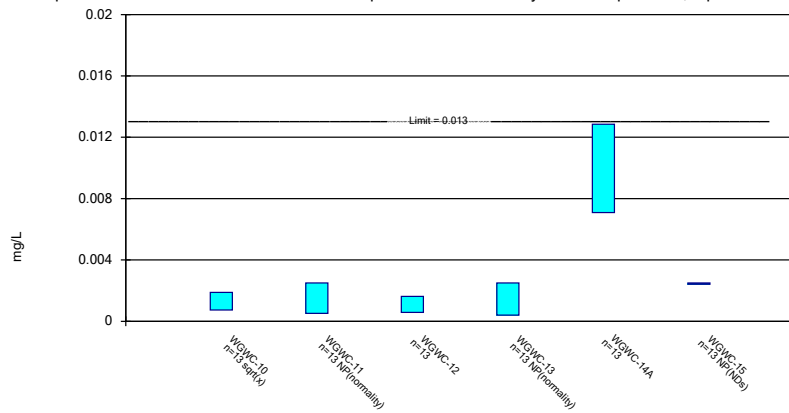
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

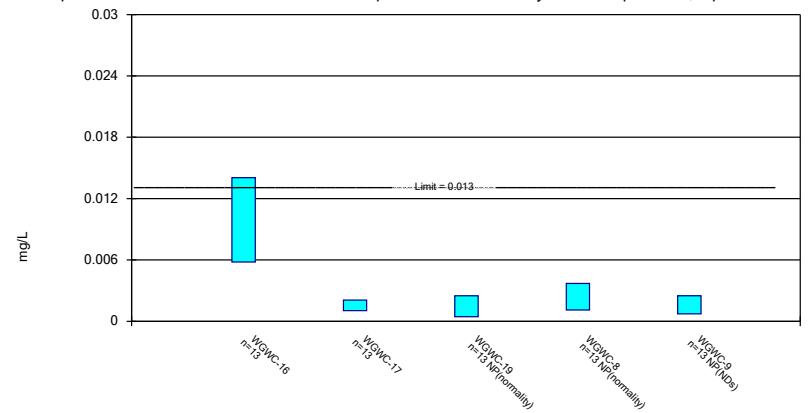
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/6/2019 1:54 PM View: Confidence Interval  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

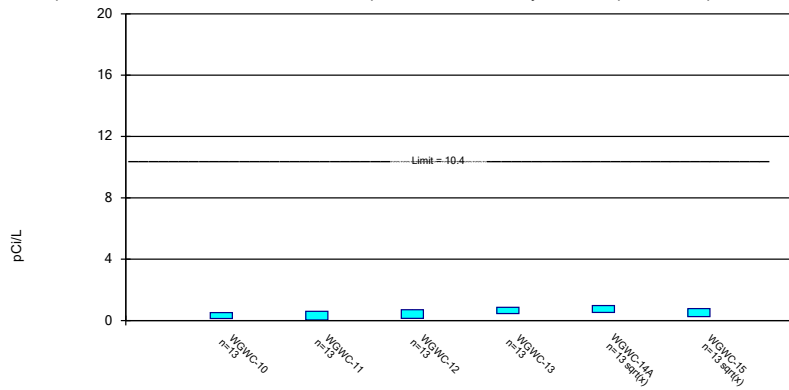
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

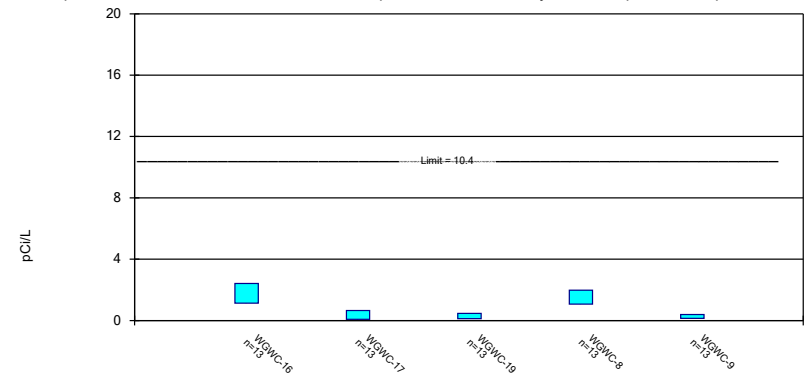
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

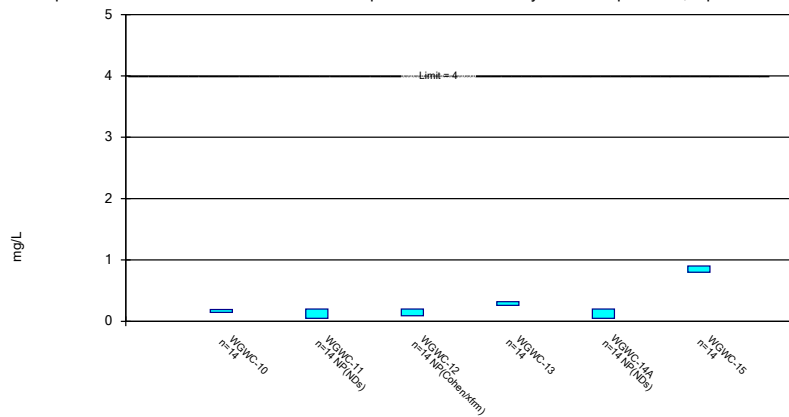
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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 and Non-Parametric (NP) Confidence Interval

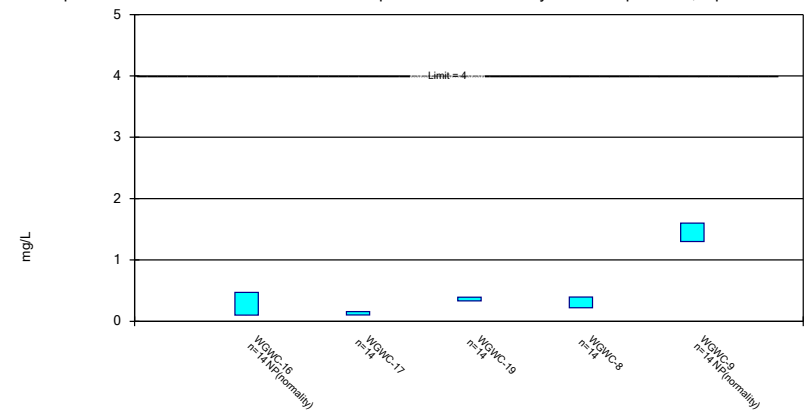
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

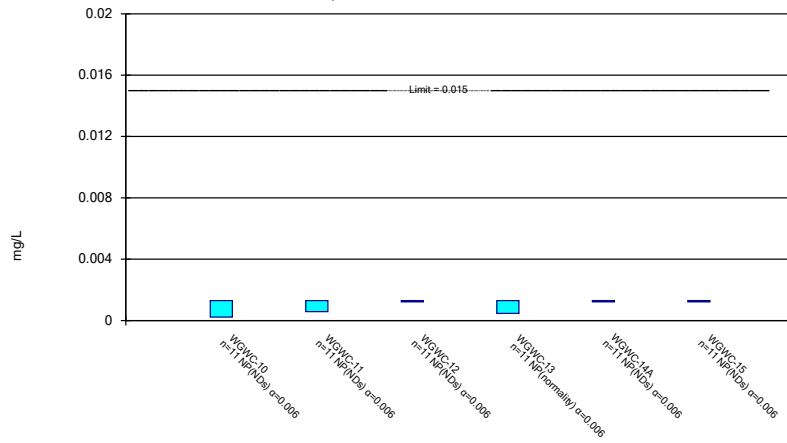
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

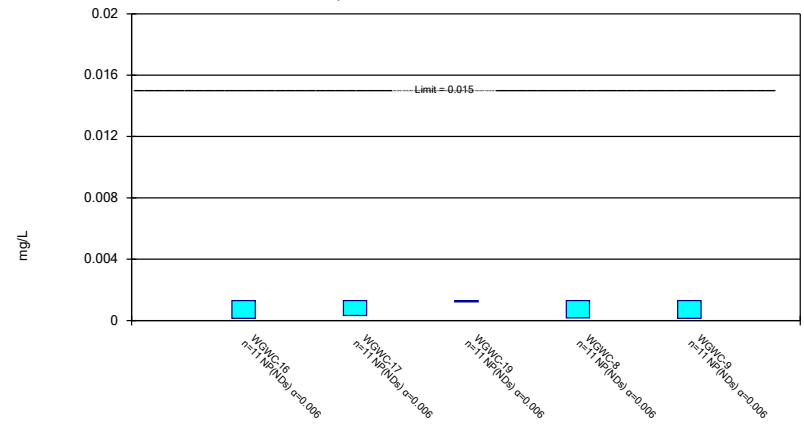
Compliance Limit is not exceeded.



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

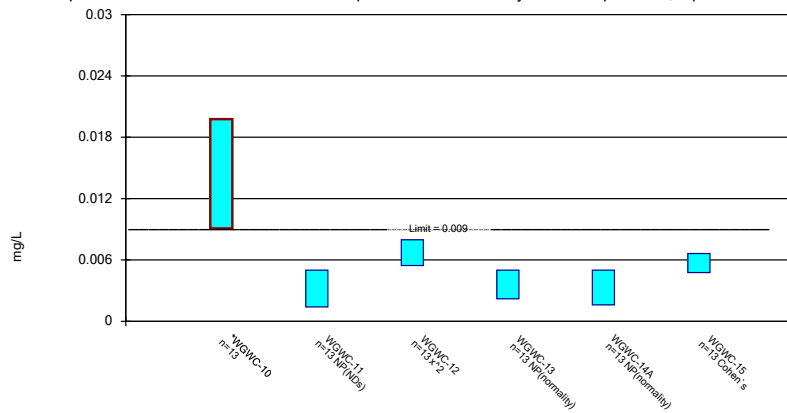
Compliance Limit is not exceeded.



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

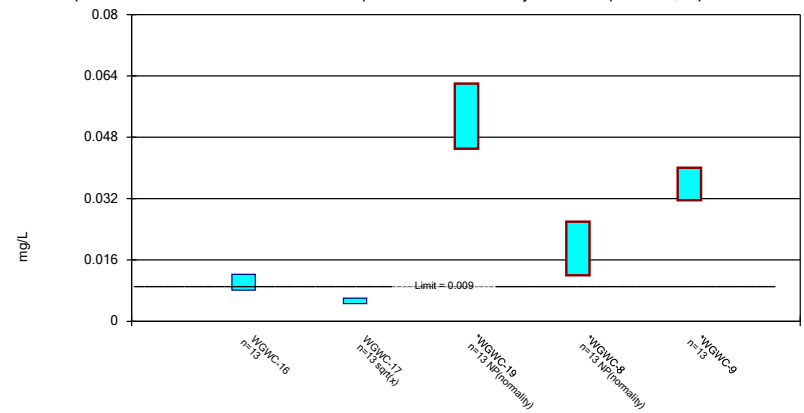
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

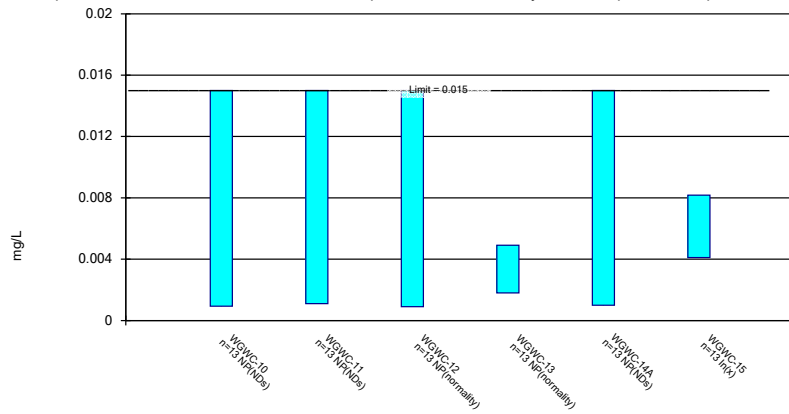
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

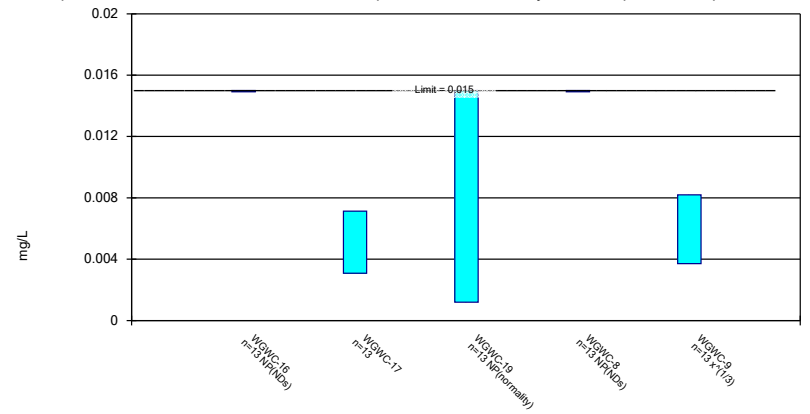
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/6/2019 1:55 PM View: Confidence Interval  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Parametric and Non-Parametric (NP) Confidence Interval

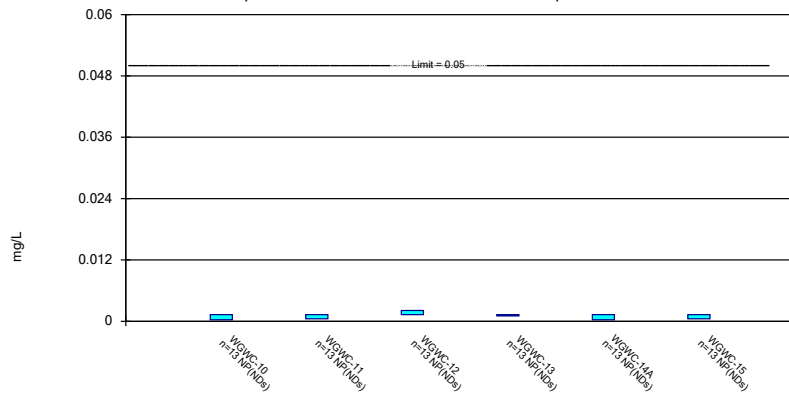
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

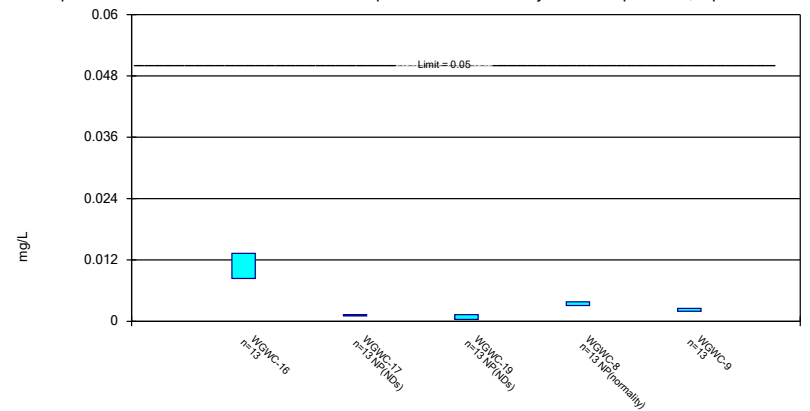
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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

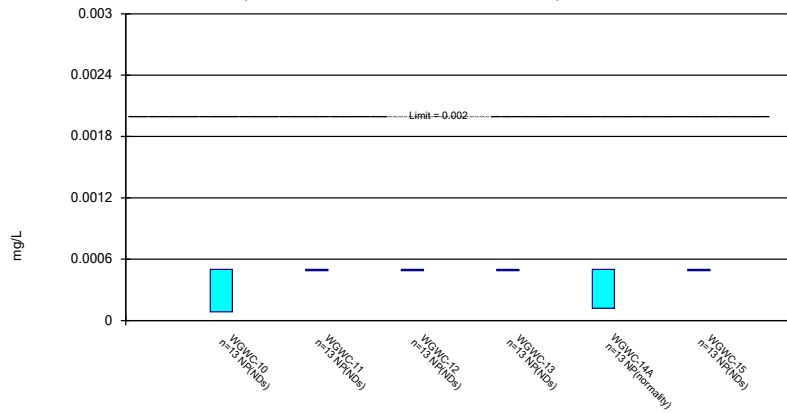
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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

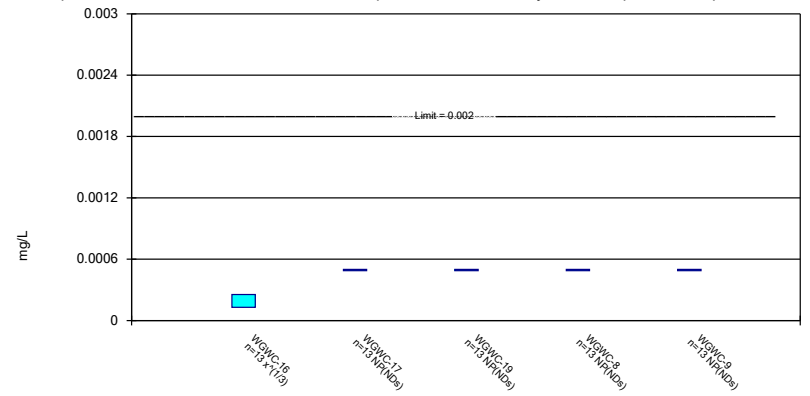
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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
<b>Mean</b>	0.169	0.1667	0.1271	0.2903	0.1891	0.8506
<b>Std. Dev.</b>	0.03208	0.06617	0.05025	0.04291	0.04062	0.07073
<b>Upper Lim.</b>	0.1917	0.2	0.2	0.3207	0.2	0.9007
<b>Lower Lim.</b>	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)			
<b>Mean</b>	0.2157	0.1315	0.3629	0.3077	1.491
<b>Std. Dev.</b>	0.2059	0.0385	0.04286	0.1232	0.201
<b>Upper Lim.</b>	0.47	0.1588	0.3932	0.395	1.6
<b>Lower Lim.</b>	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			
<b>Mean</b>	0.001195	0.001212	0.0013	0.001197	0.001195
<b>Std. Dev.</b>	0.0003498	0.0002925	0	0.0003407	0.0003498
<b>Upper Lim.</b>	0.0013	0.0013	0.0013	0.0013	0.0013
<b>Lower Lim.</b>	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
<b>Mean</b>	0.01443	0.004177	0.006546	0.004254	0.003815	0.005823
<b>Std. Dev.</b>	0.007192	0.001571	0.002029	0.001243	0.001476	0.001105
<b>Upper Lim.</b>	0.01978	0.005	0.00797	0.005	0.005	0.006633
<b>Lower Lim.</b>	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



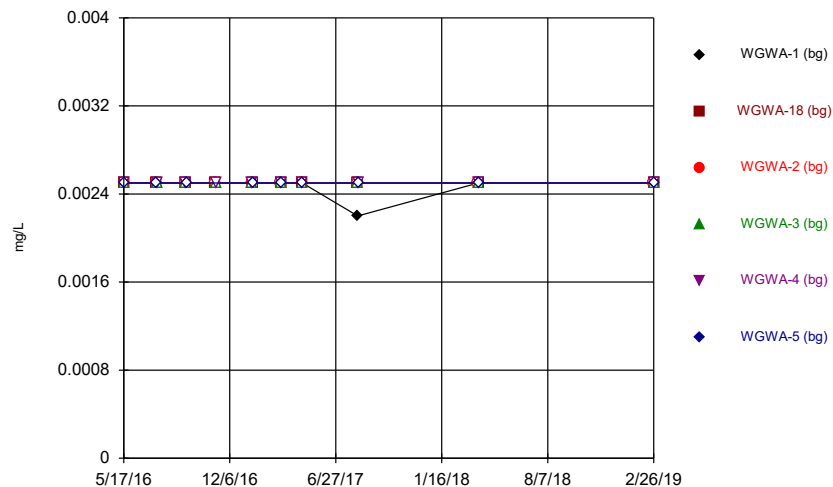
# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 6/6/2019 1:57 PM View: Confidence Interval

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

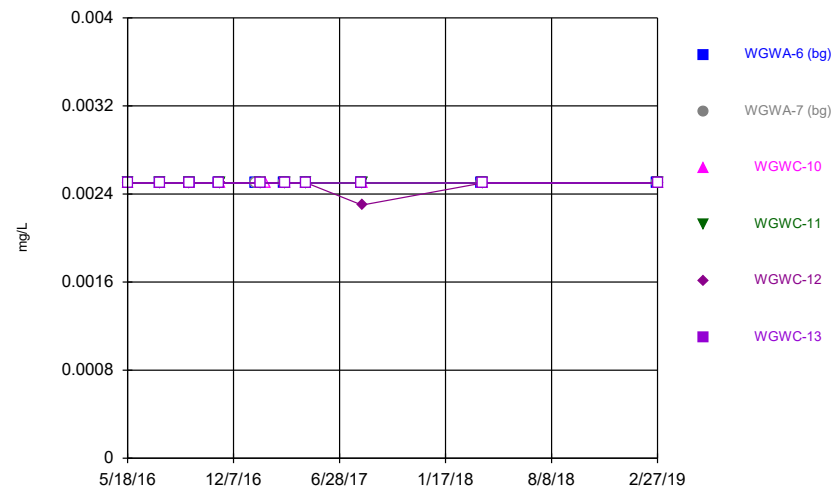
	WGWC-16	WGWC-17	WGWC-19	WGWC-8	WGWC-9
5/18/2016	<0.0005	<0.0005			
5/19/2016				<0.0005	<0.0005
7/19/2016	8.5E-05 (J)				
7/20/2016		<0.0005		<0.0005	<0.0005
9/14/2016	0.00017 (J)	<0.0005			<0.0005
9/15/2016				<0.0005	
11/10/2016	0.00017 (J)	<0.0005			
11/11/2016			<0.0005		
11/14/2016				<0.0005	
1/20/2017		<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



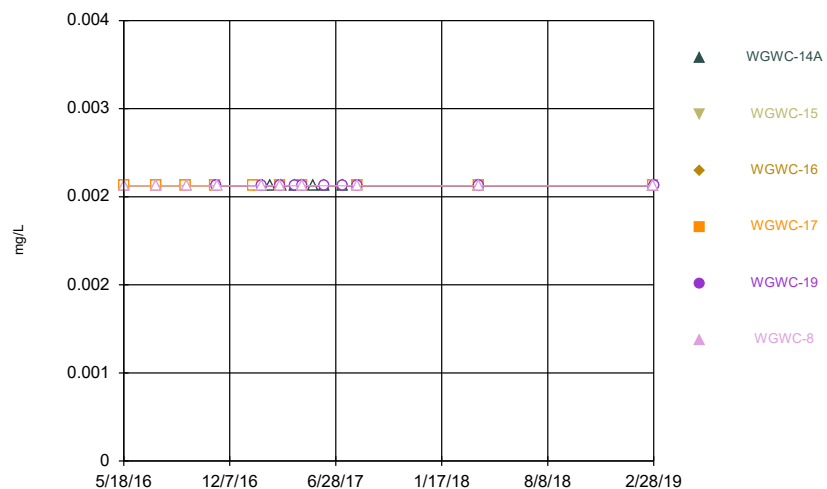
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Antimony



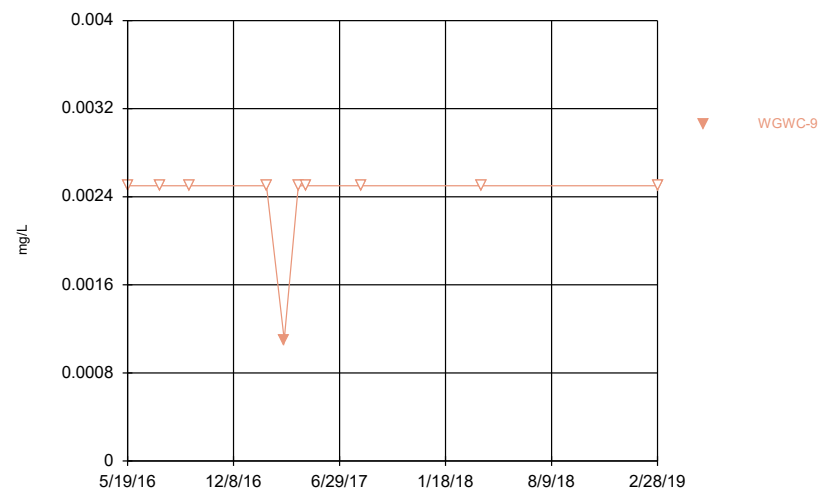
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Antimony



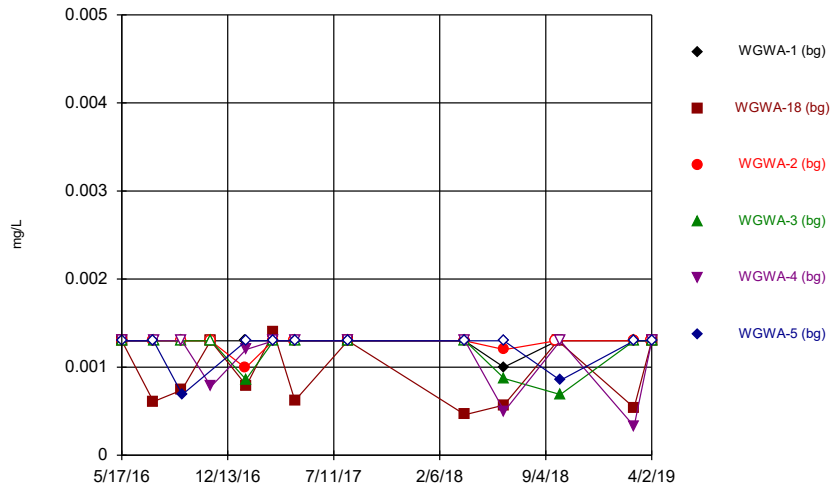
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Antimony



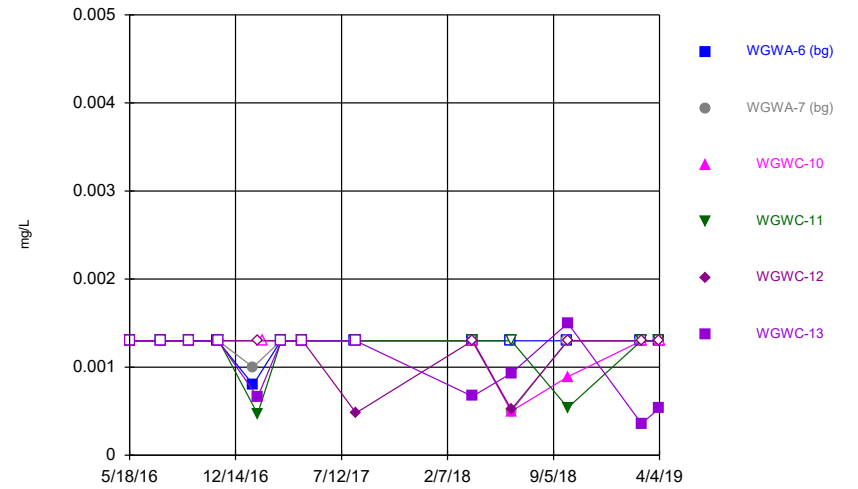
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Arsenic



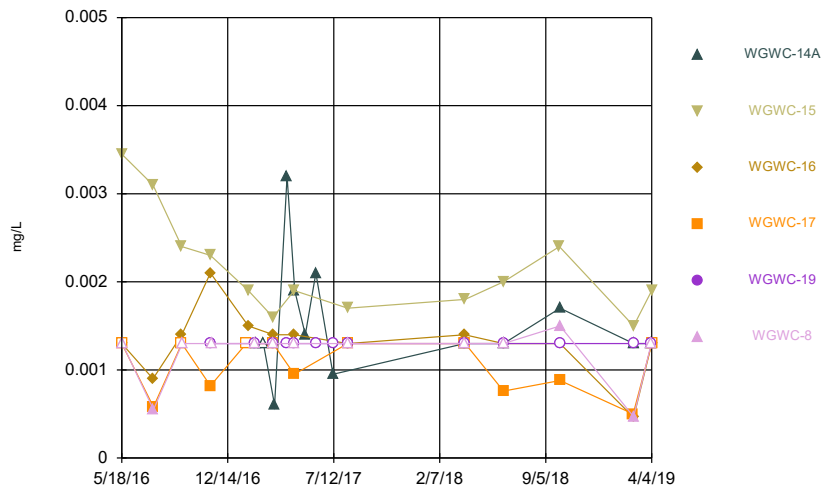
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Arsenic



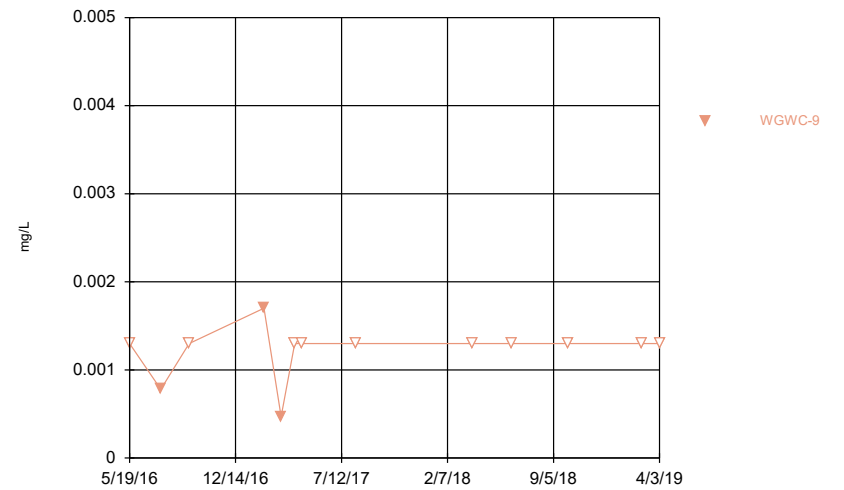
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Arsenic



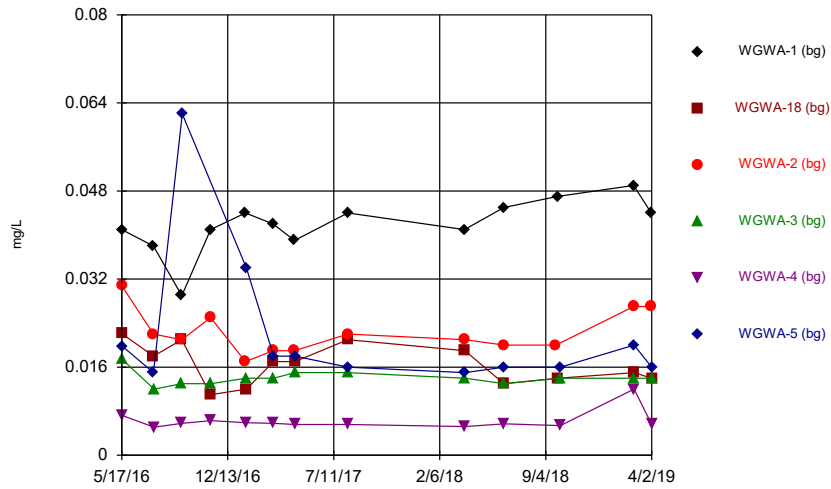
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Arsenic



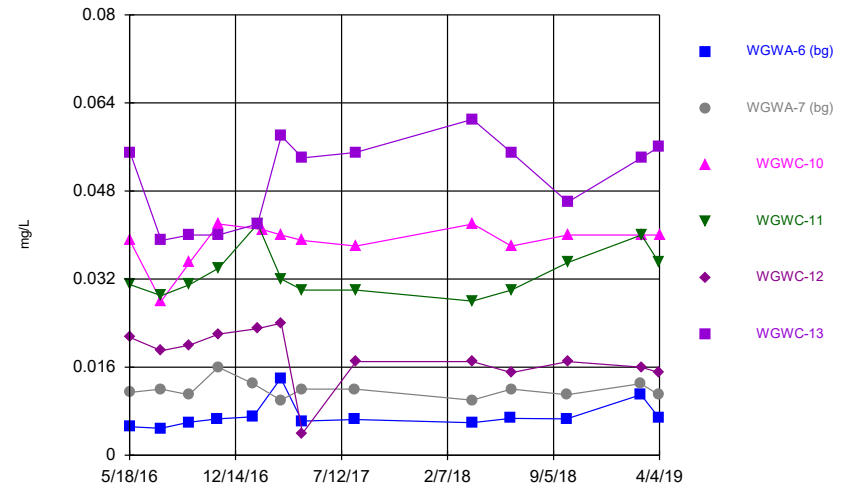
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Barium



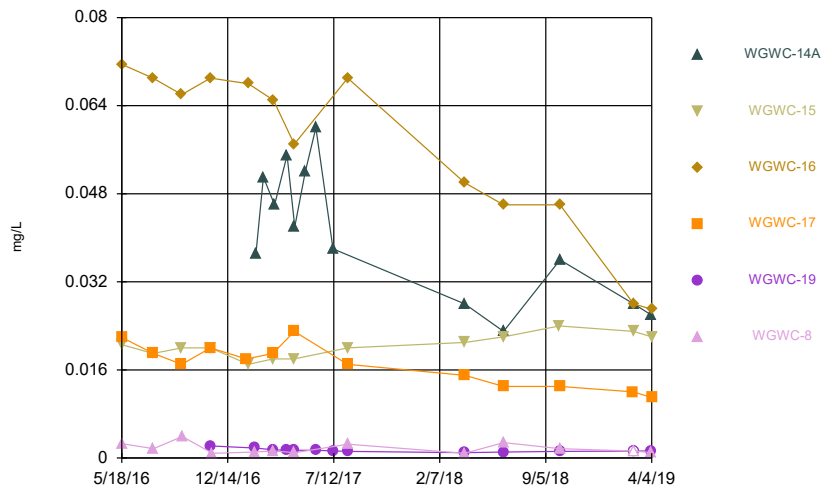
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Barium



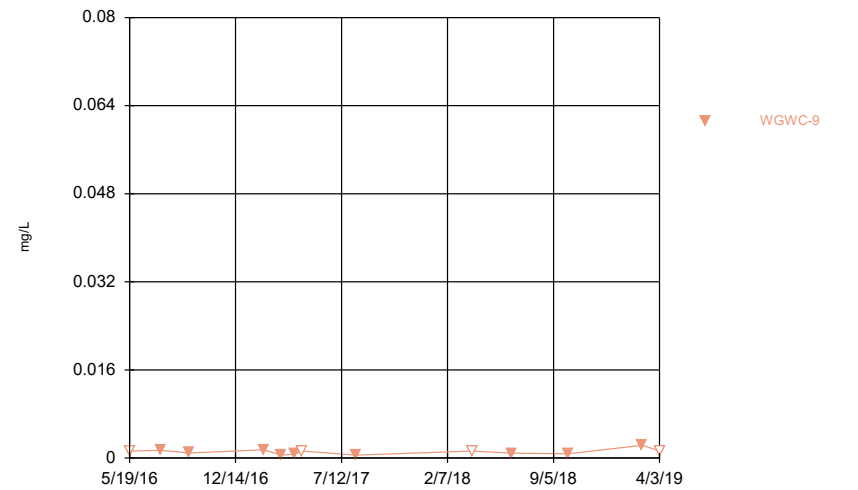
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Barium



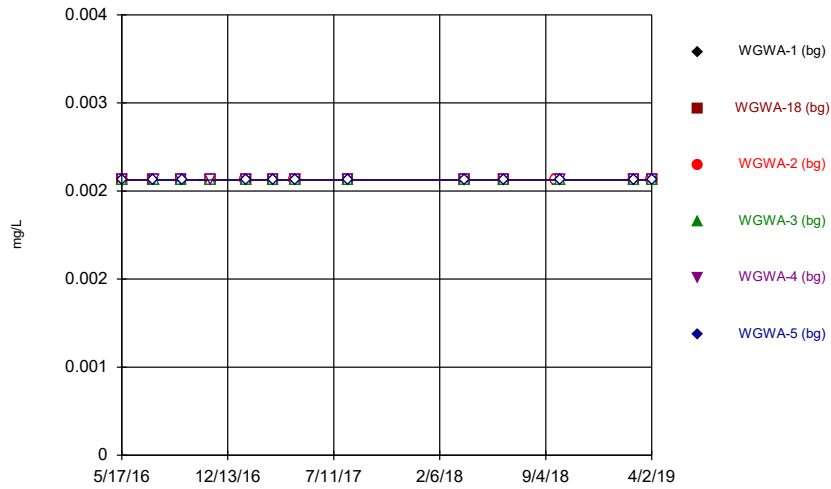
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Barium



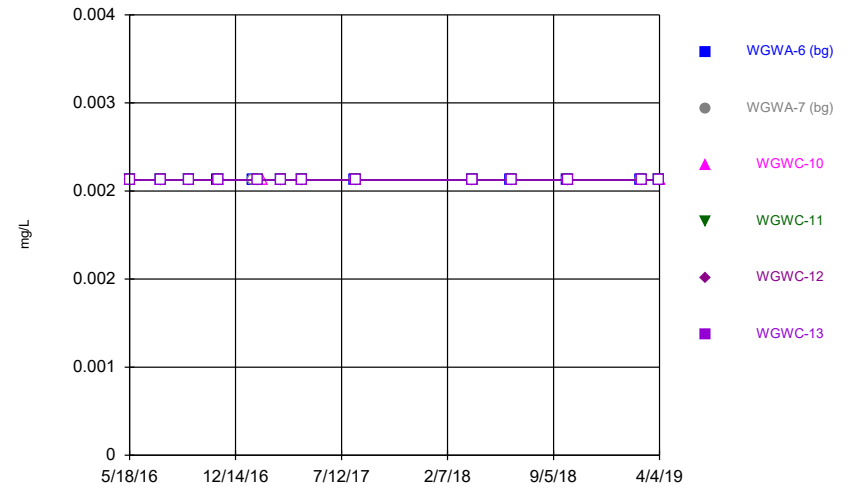
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Beryllium



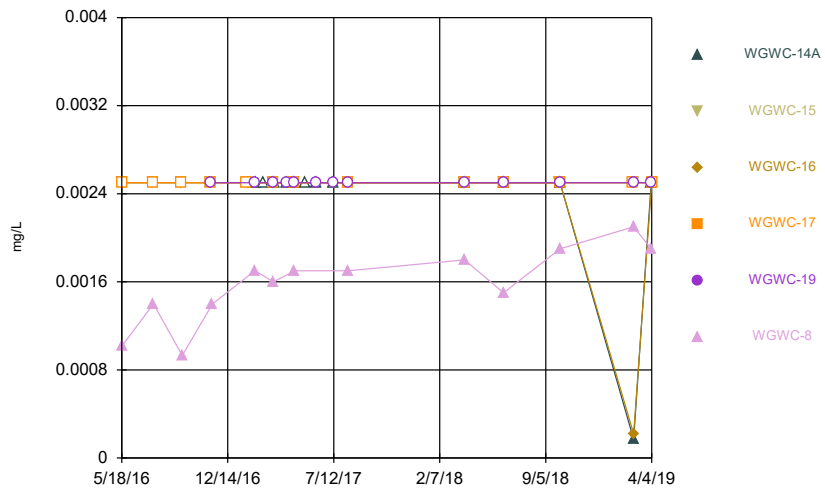
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Beryllium



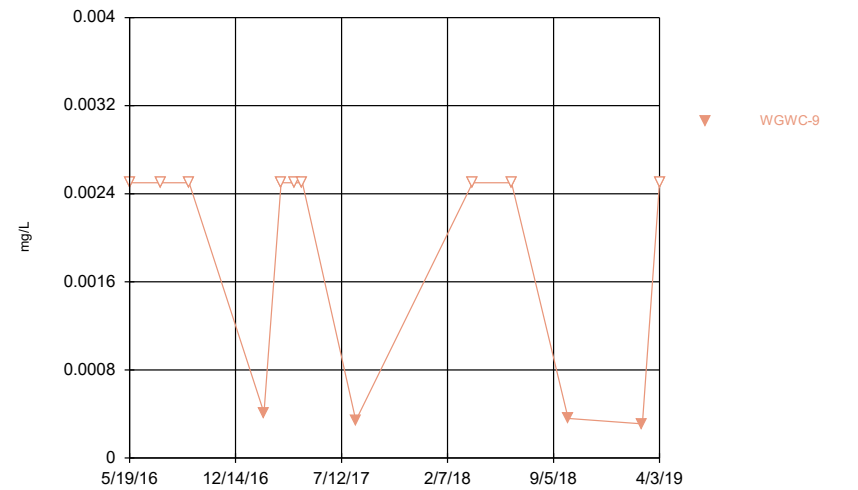
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Beryllium



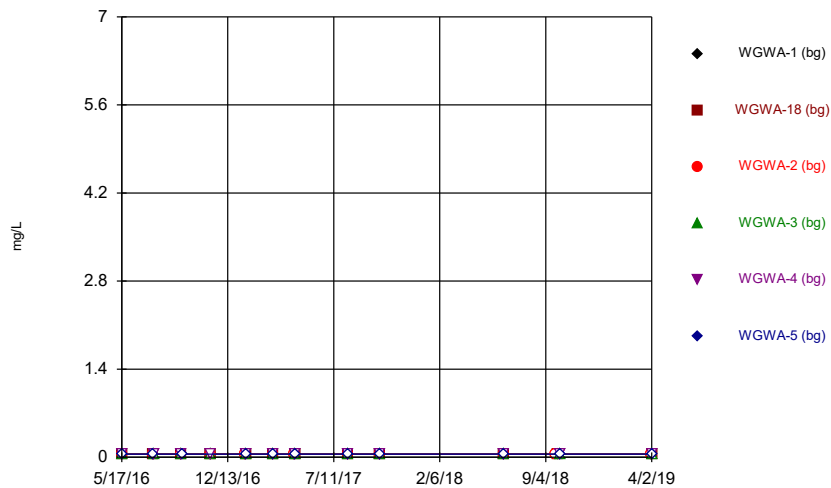
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Beryllium



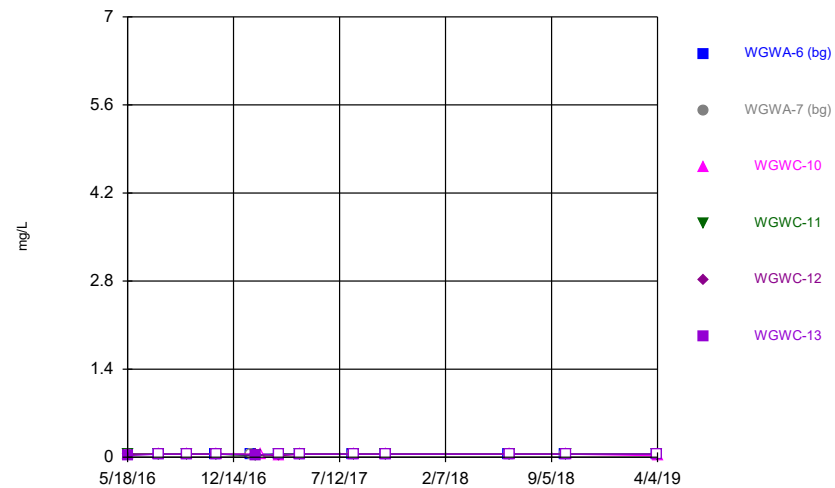
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Boron



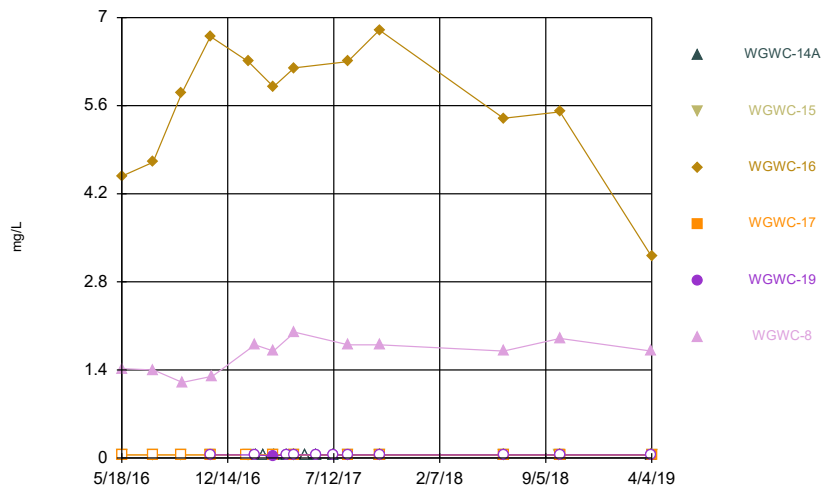
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Boron



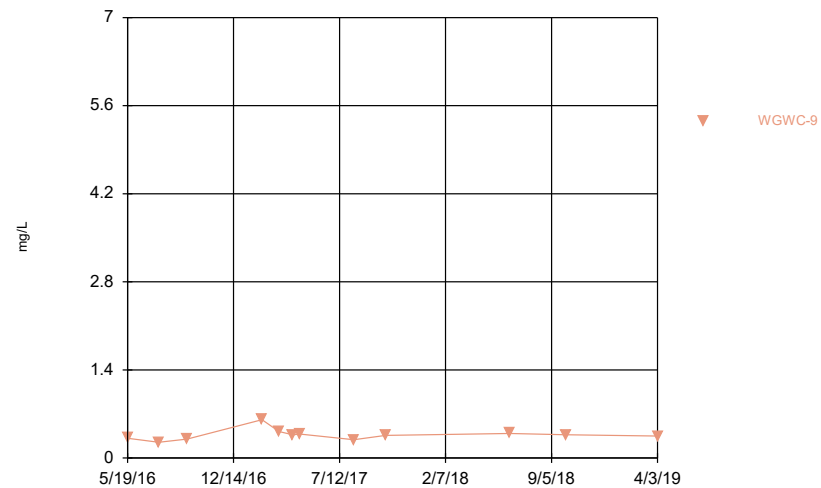
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Boron



Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

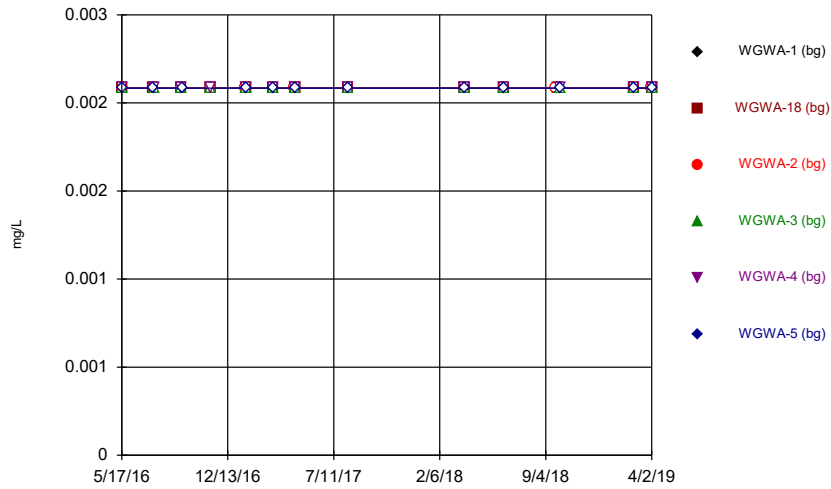
### Boron



Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

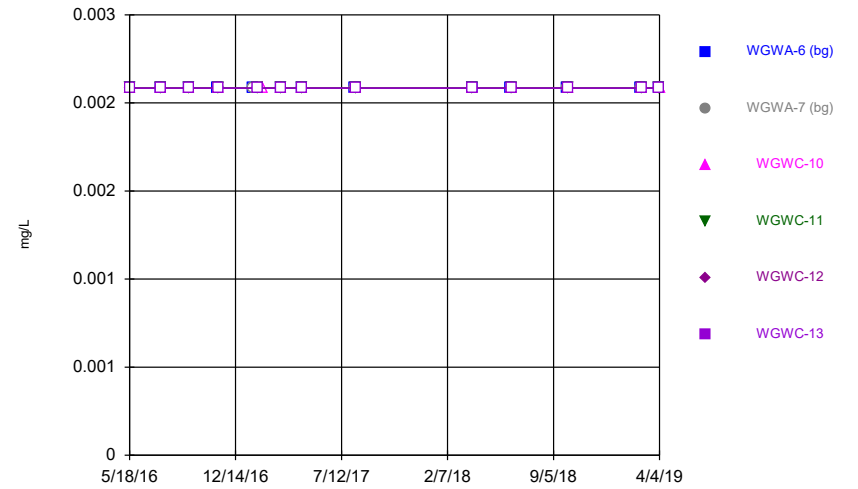


### Cadmium



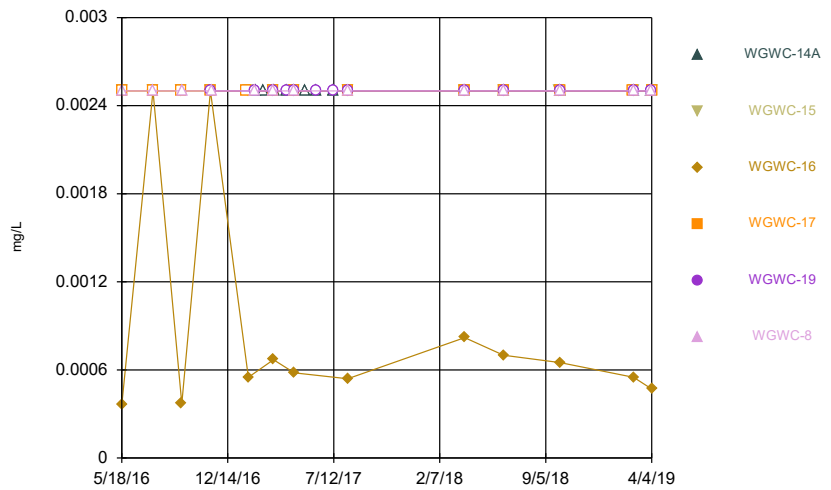
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Cadmium



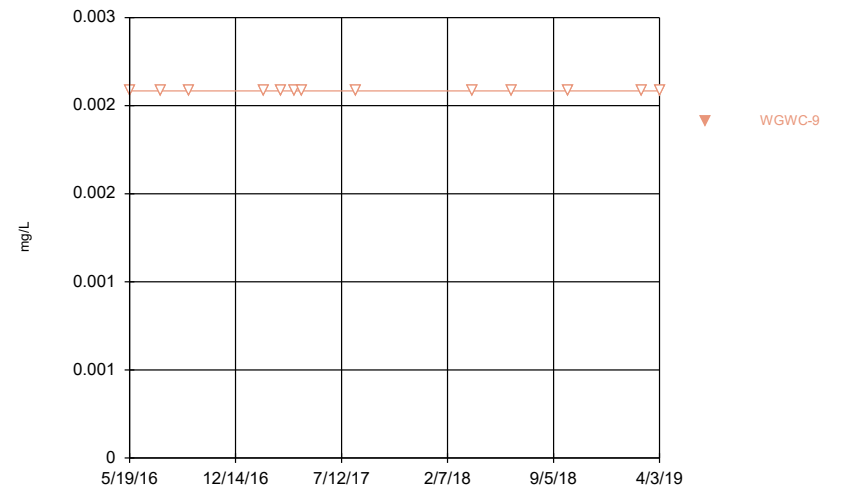
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Cadmium



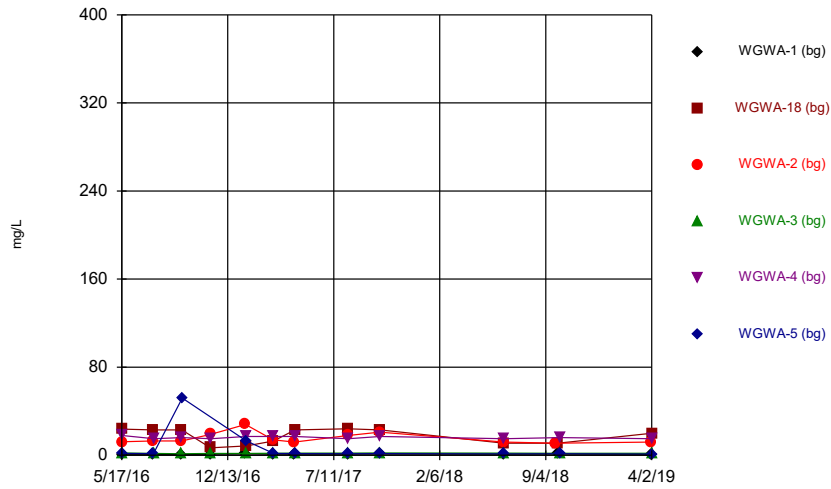
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Cadmium



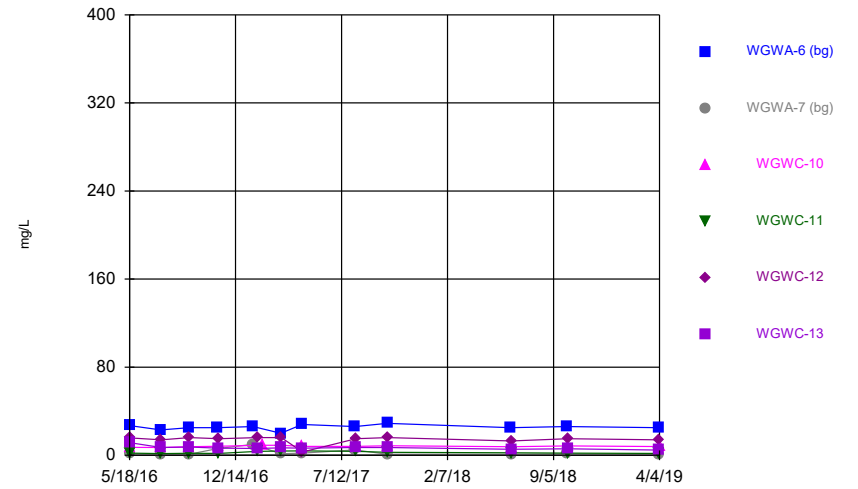
Time Series Analysis Run 6/6/2019 1:10 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Calcium



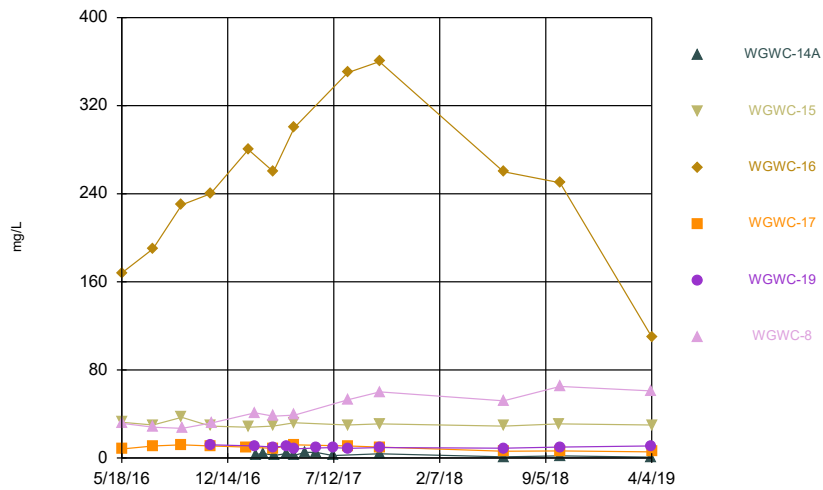
Time Series Analysis Run 6/6/2019 1:11 PM View: Time Series  
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Calcium



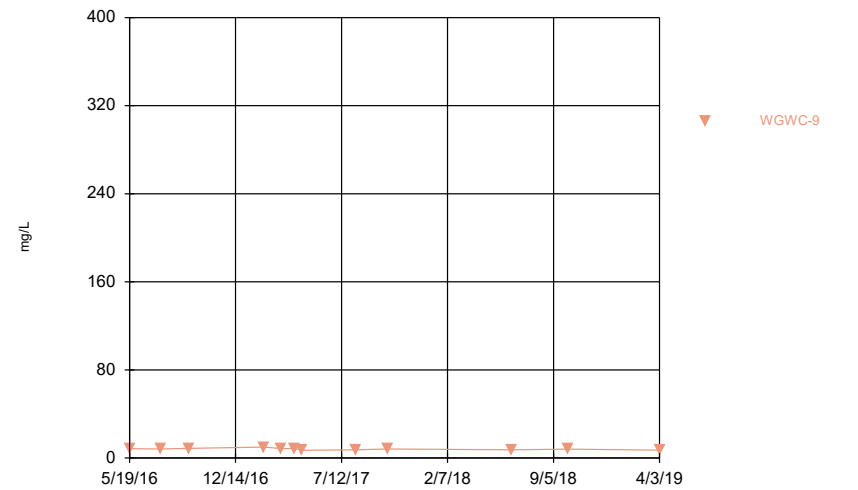
Time Series Analysis Run 6/6/2019 1:11 PM View: Time Series  
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Calcium



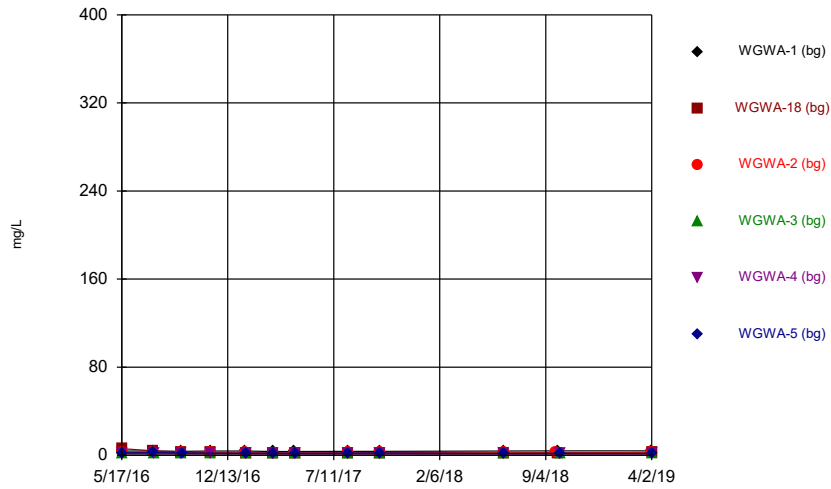
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Calcium



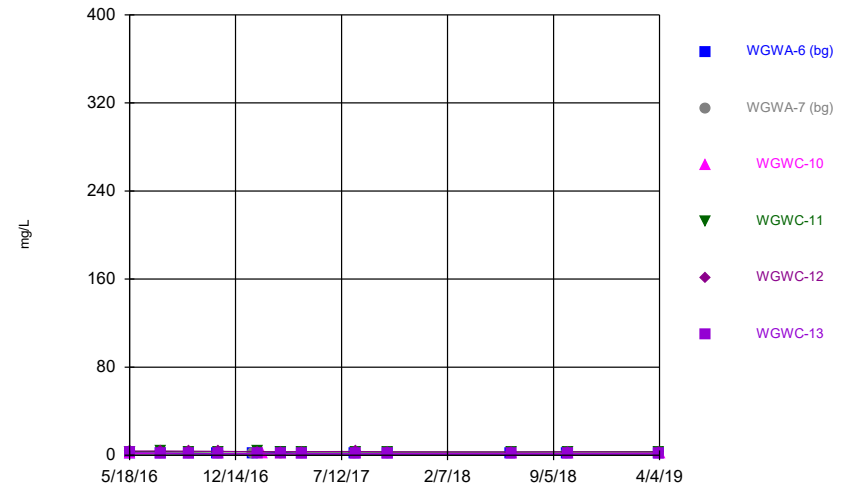
Time Series Analysis Run 6/6/2019 1:11 PM View: Time Series  
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Chloride



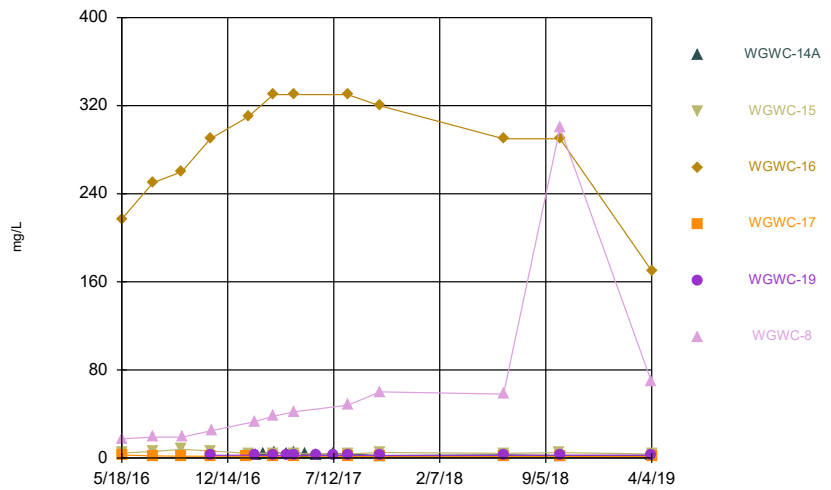
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Chloride



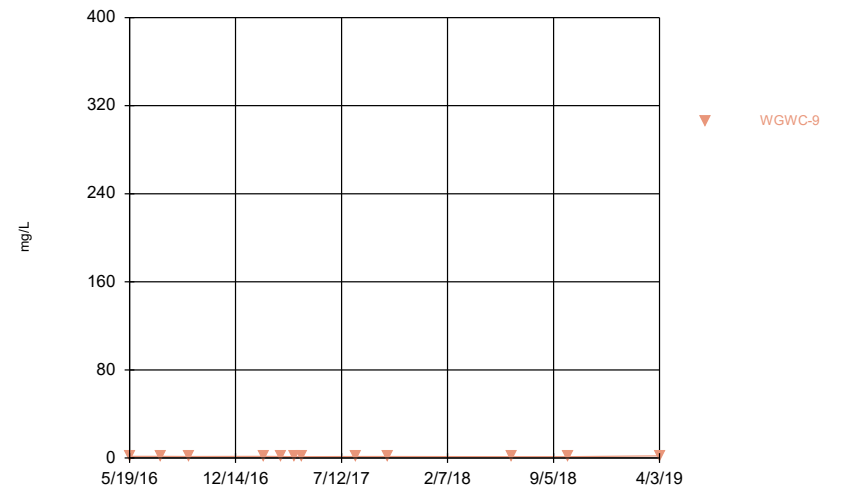
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Chloride



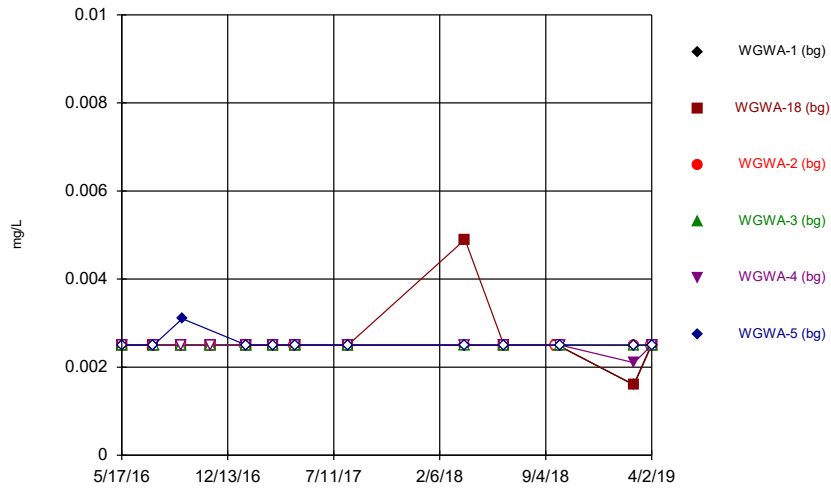
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Chloride



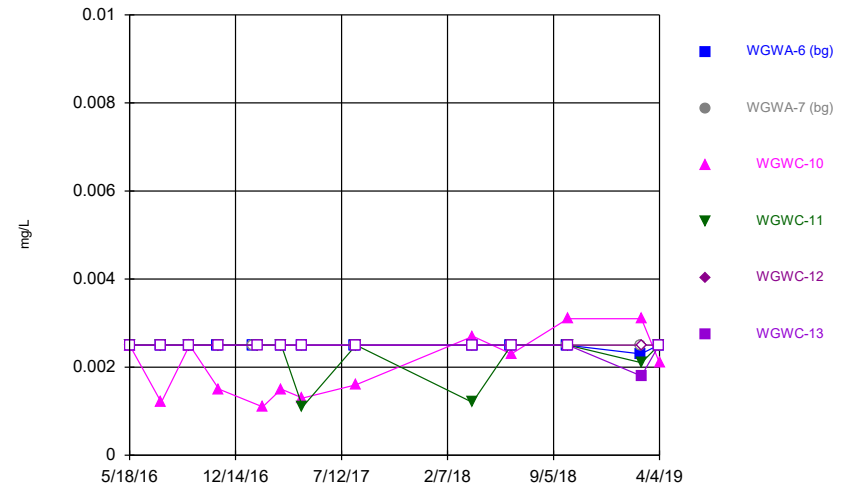
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Chromium



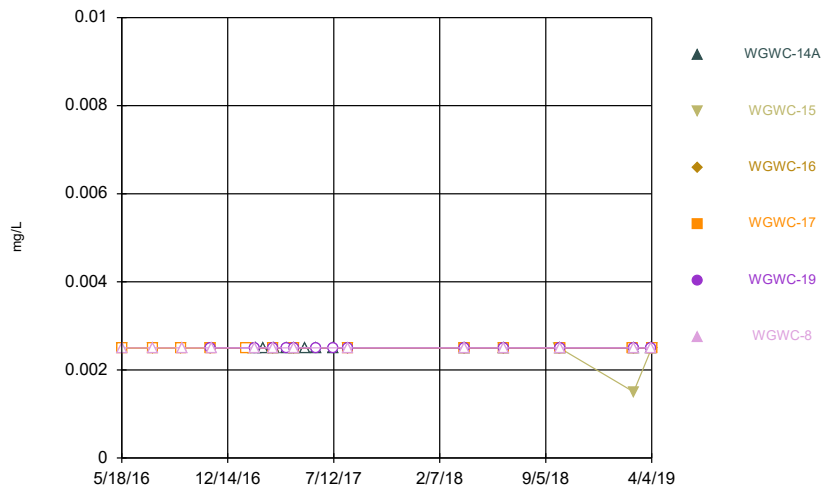
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Chromium



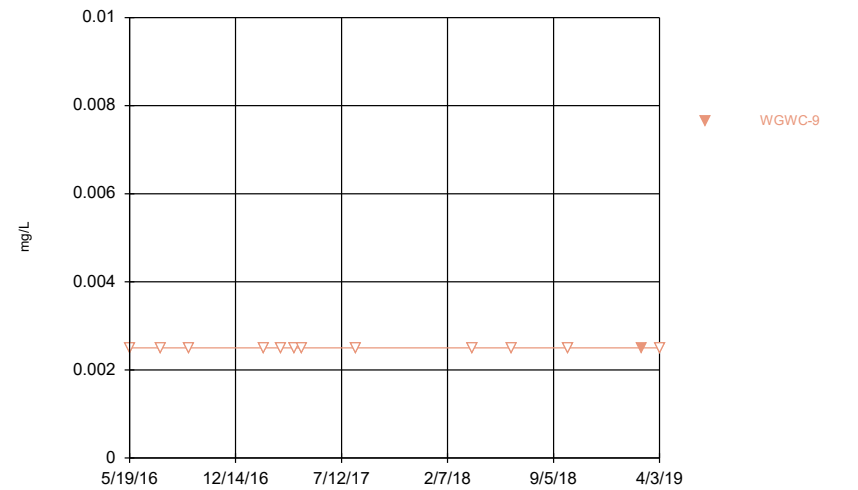
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Chromium



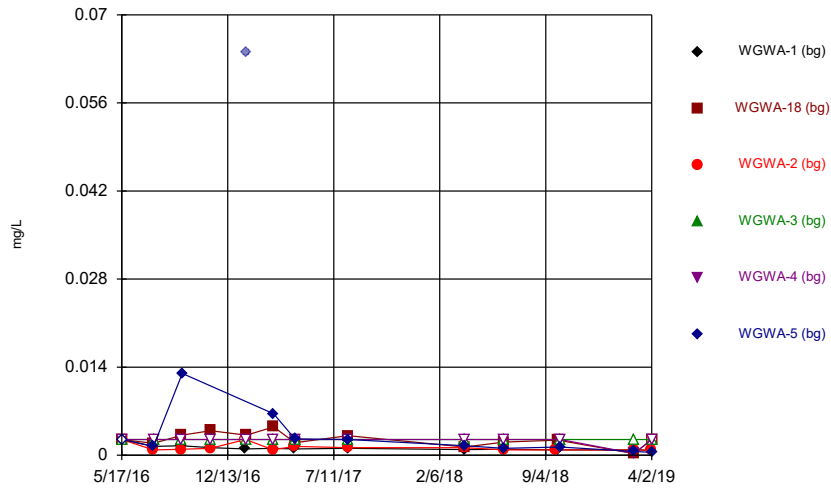
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Chromium



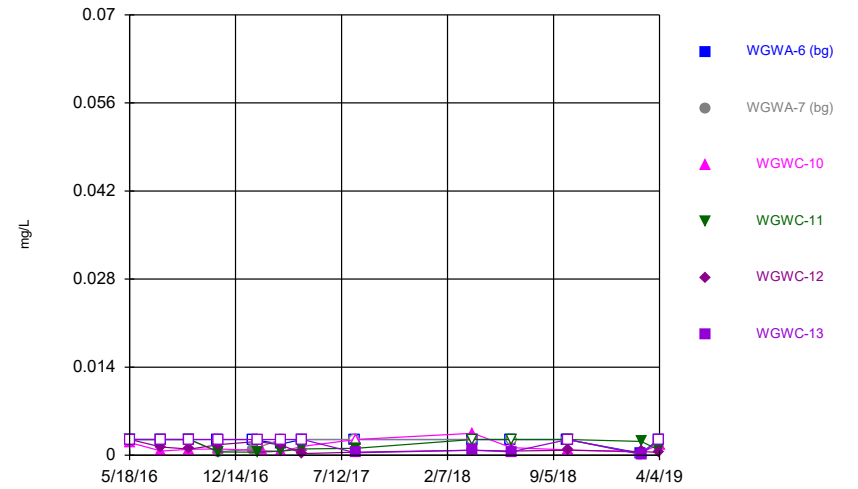
Time Series Analysis Run 6/6/2019 1:11 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Cobalt



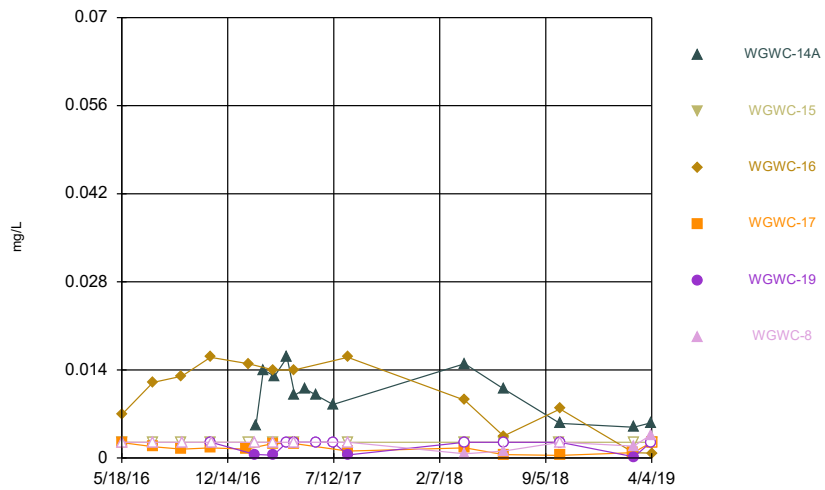
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Cobalt



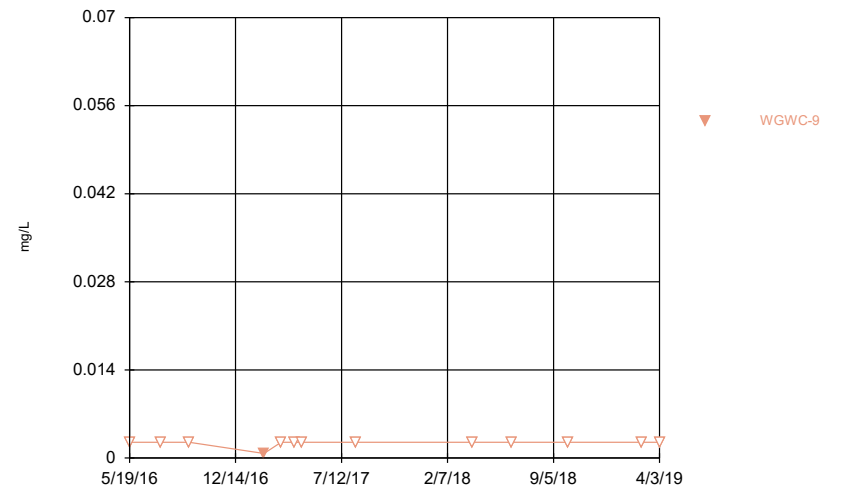
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Cobalt



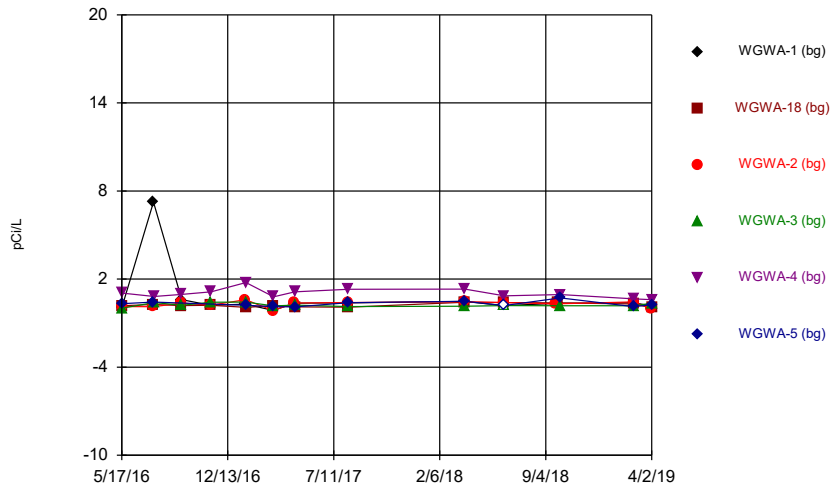
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Cobalt



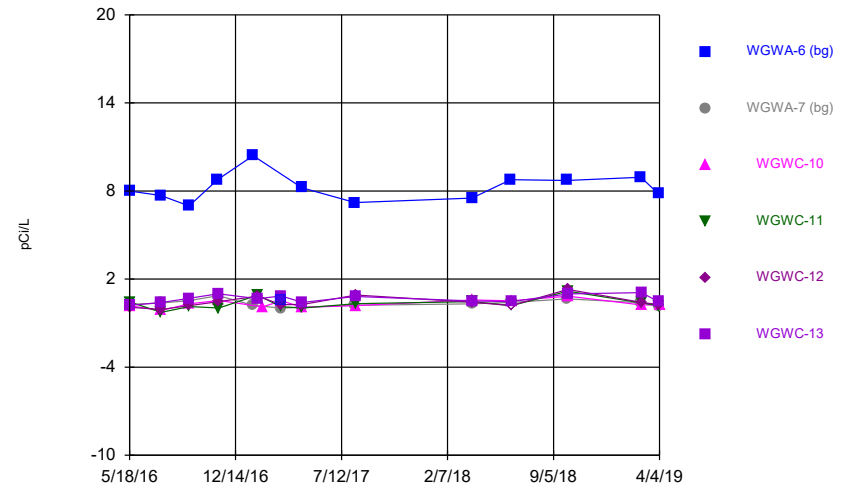
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Combined Radium 226 + 228



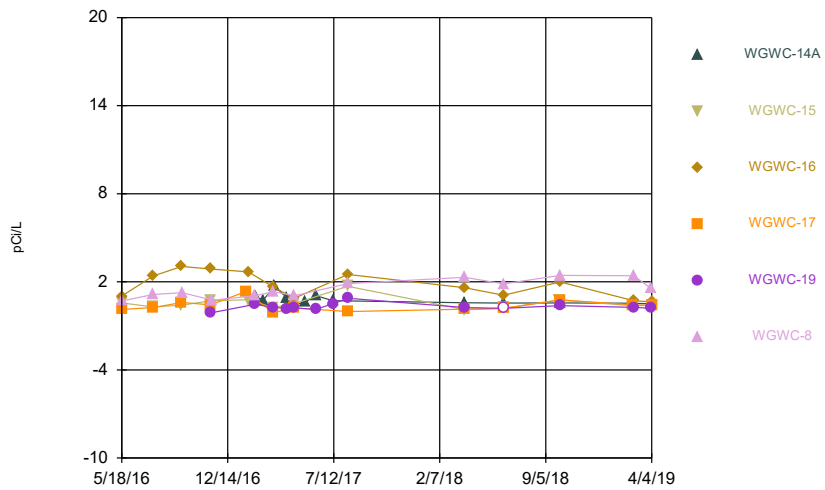
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Combined Radium 226 + 228



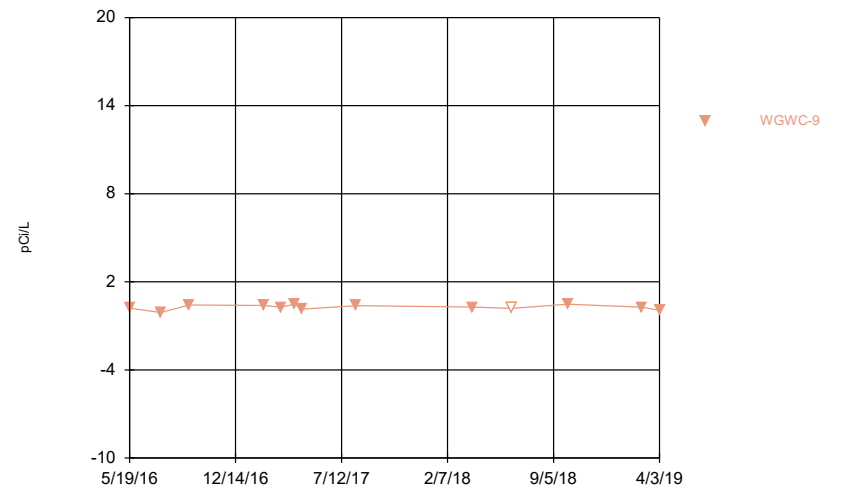
Time Series Analysis Run 6/6/2019 1:11 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Combined Radium 226 + 228



Time Series Analysis Run 6/6/2019 1:11 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

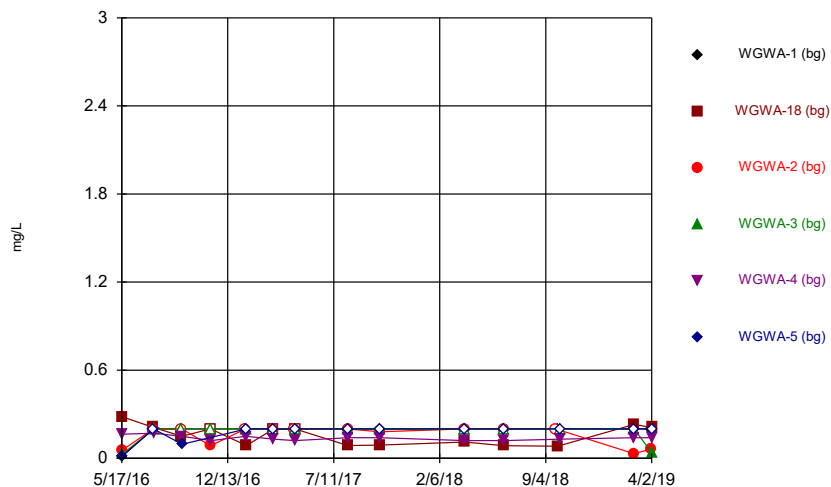
Combined Radium 226 + 228



Time Series Analysis Run 6/6/2019 1:11 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

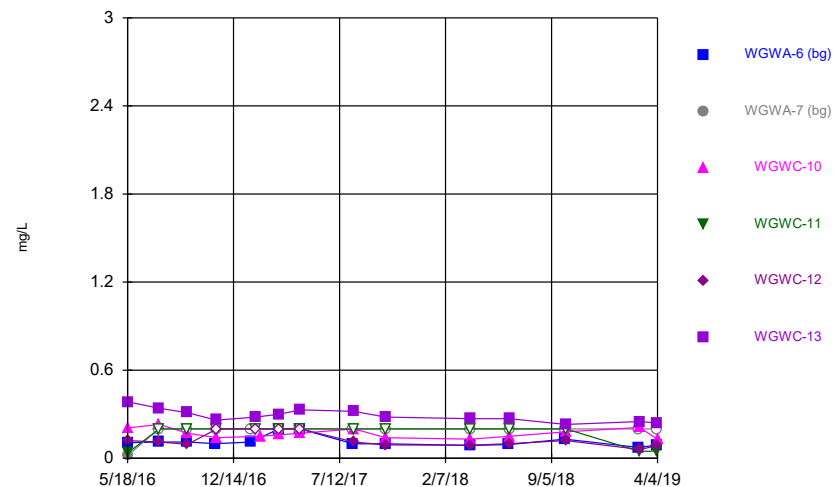


### Fluoride



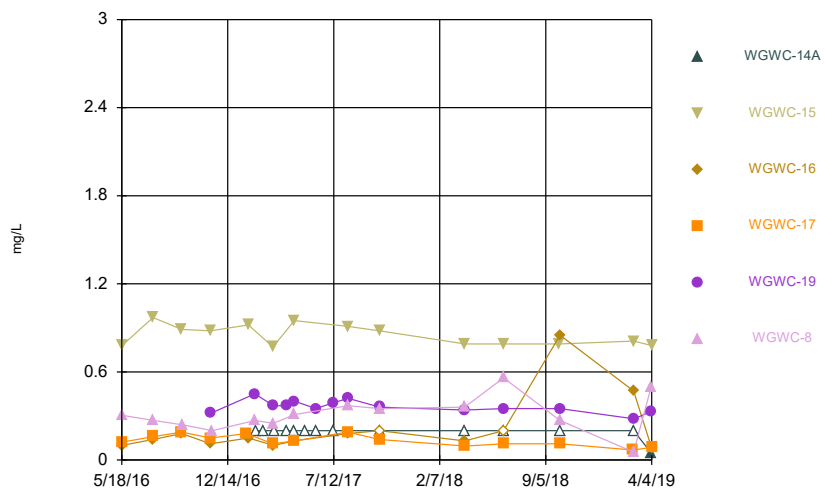
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### Fluoride



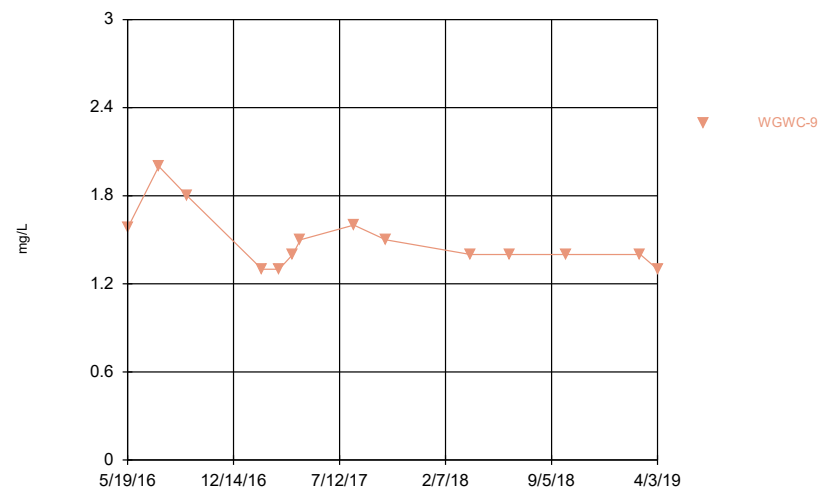
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Fluoride



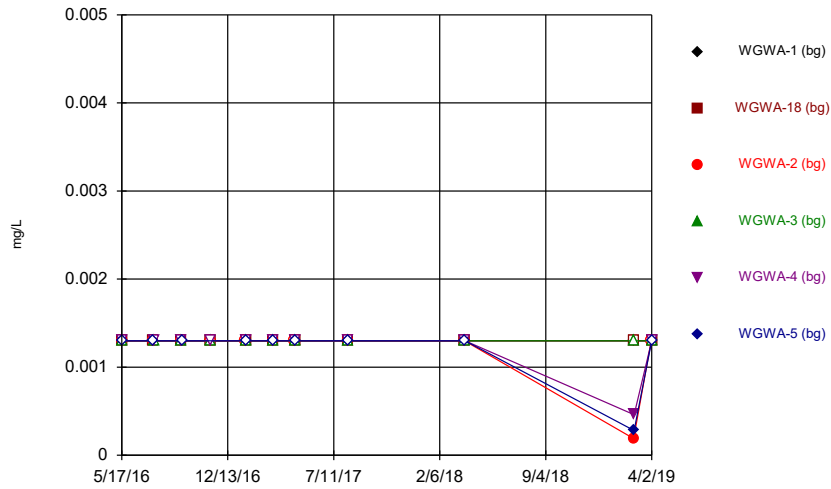
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Fluoride



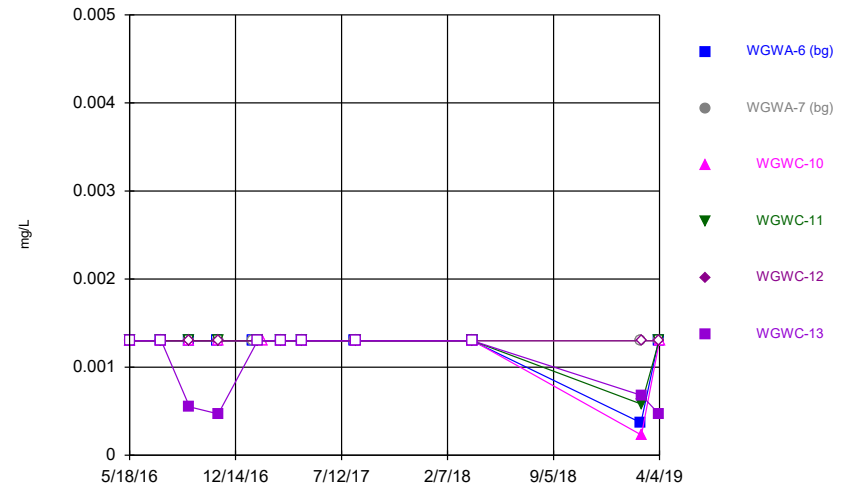
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Lead



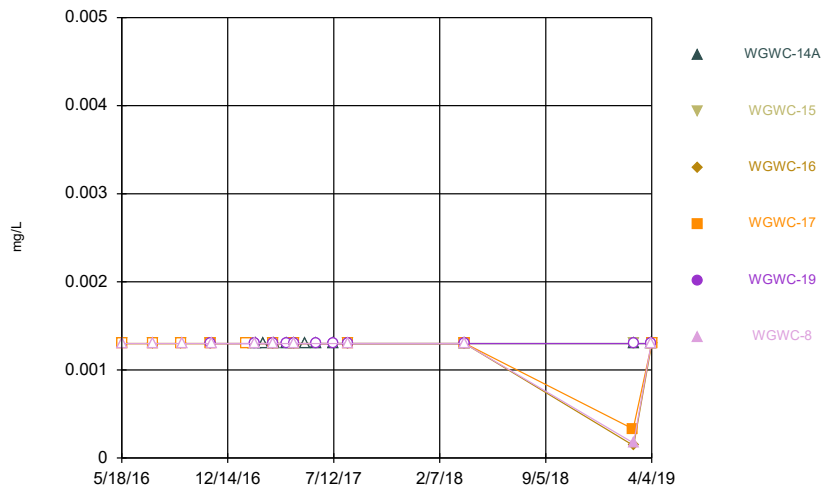
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Lead



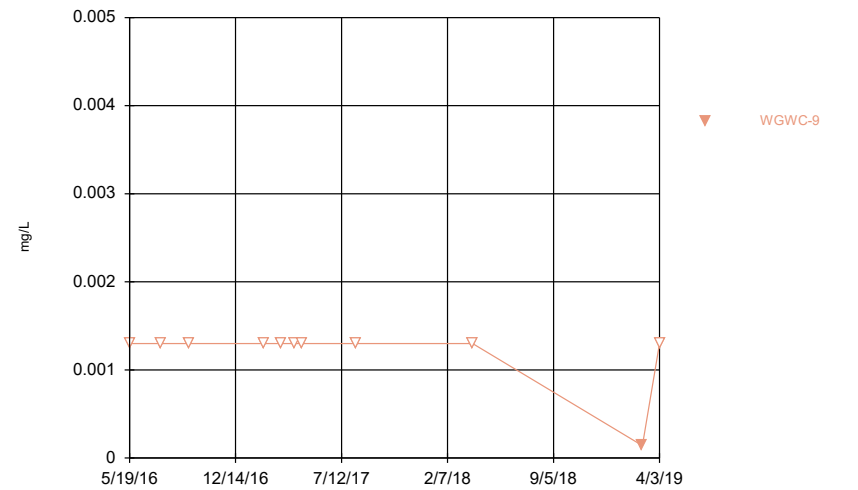
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Lead



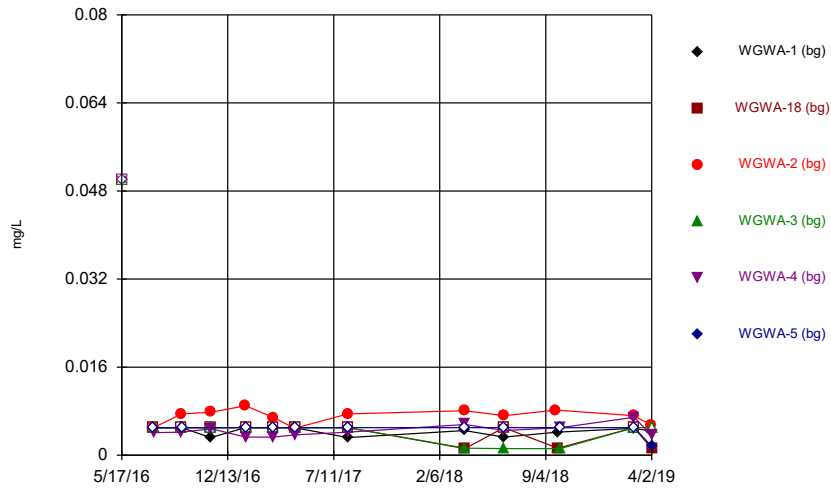
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Lead



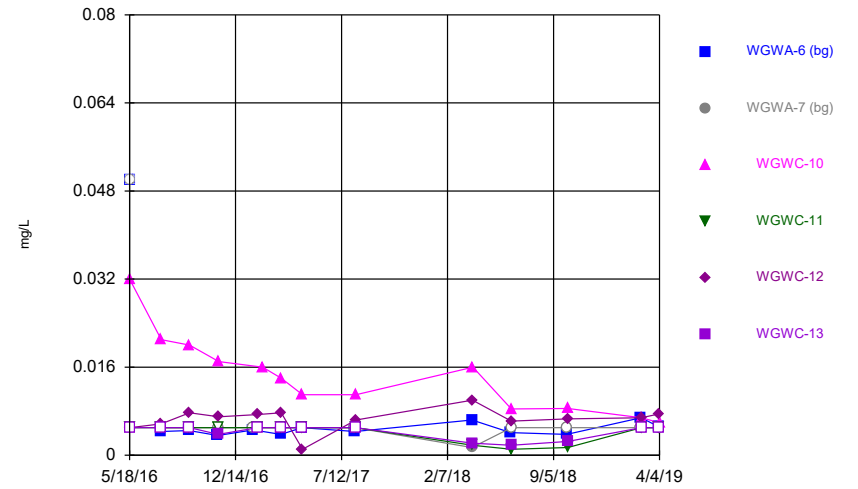
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Lithium



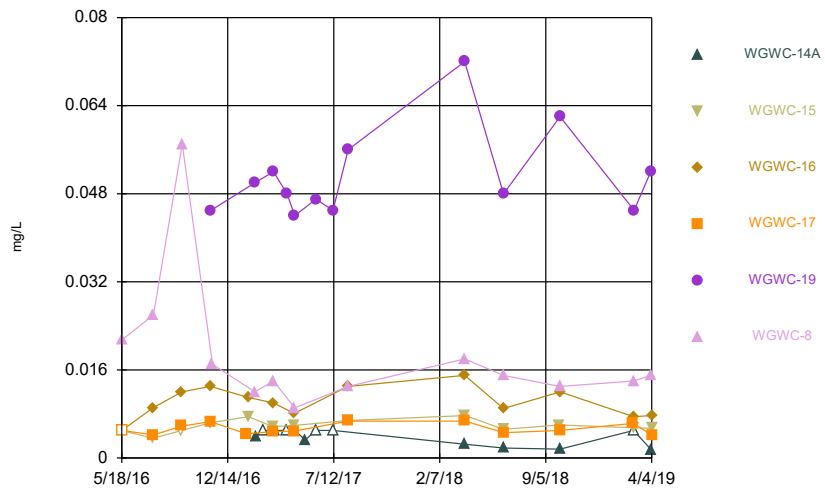
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### Lithium



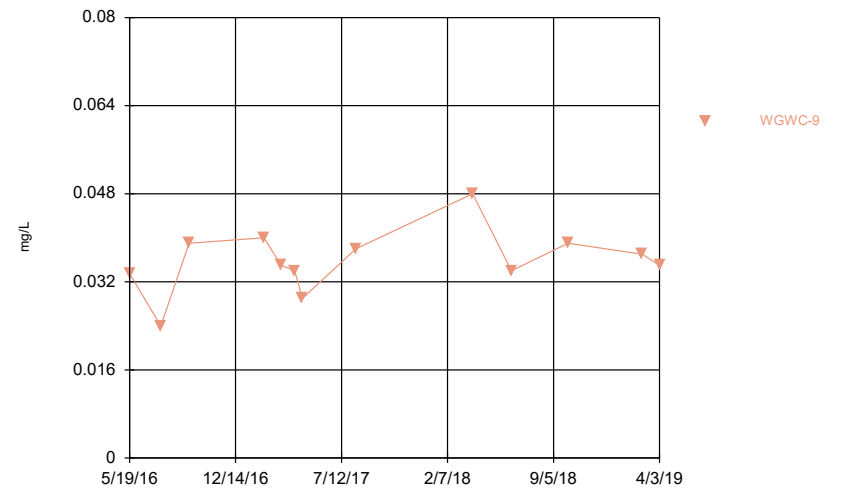
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### Lithium



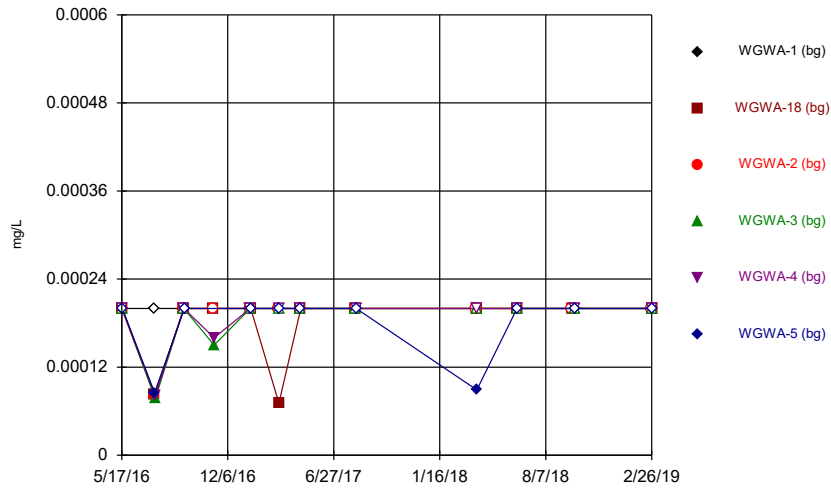
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Lithium



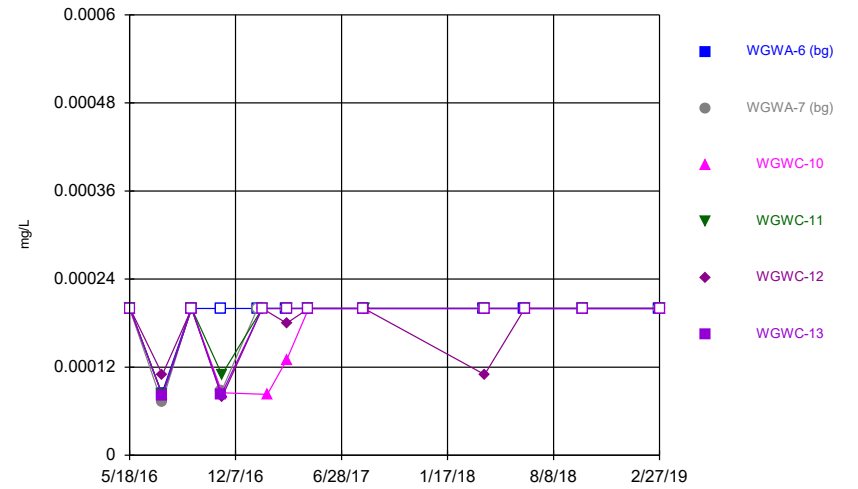
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Mercury



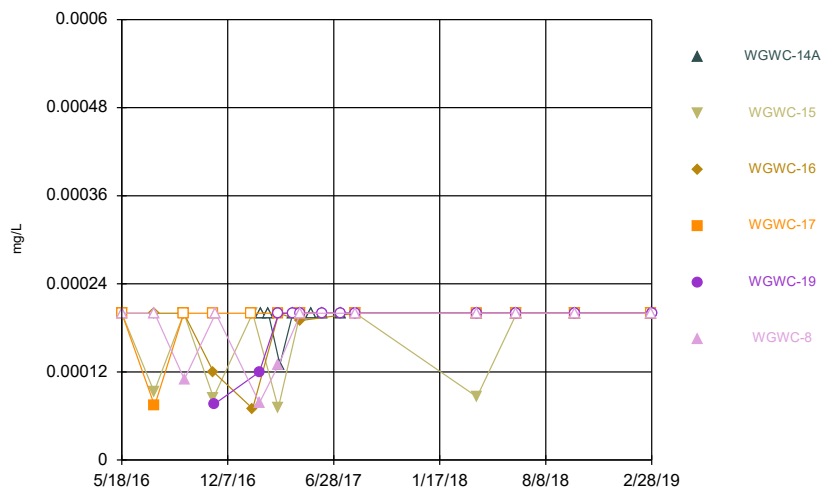
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Mercury



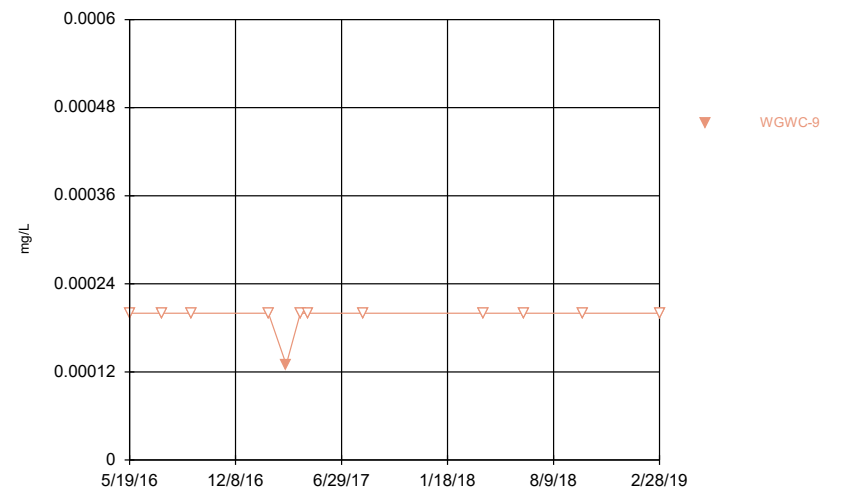
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Mercury



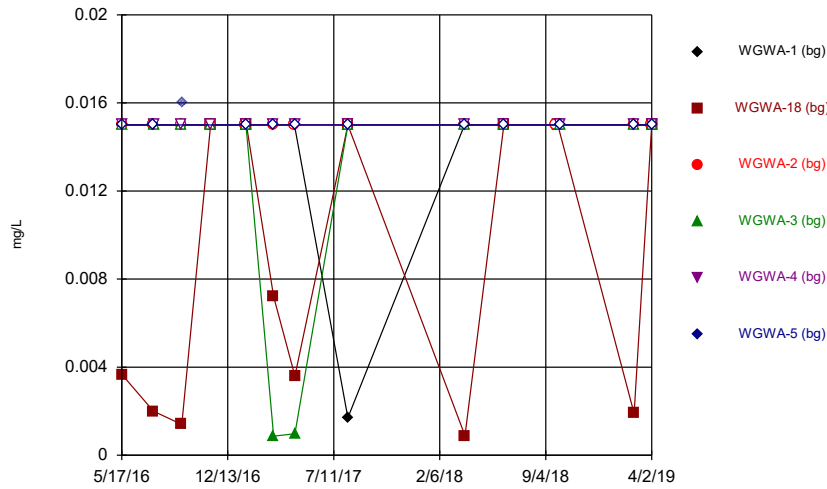
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Mercury



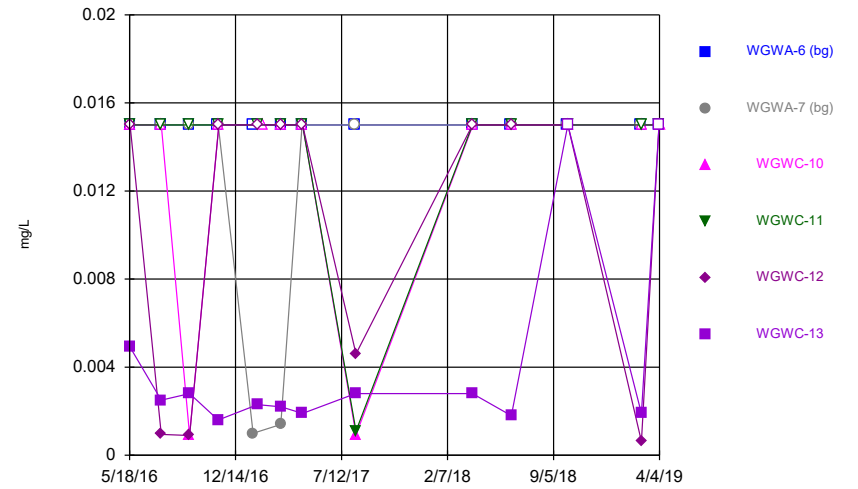
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Molybdenum



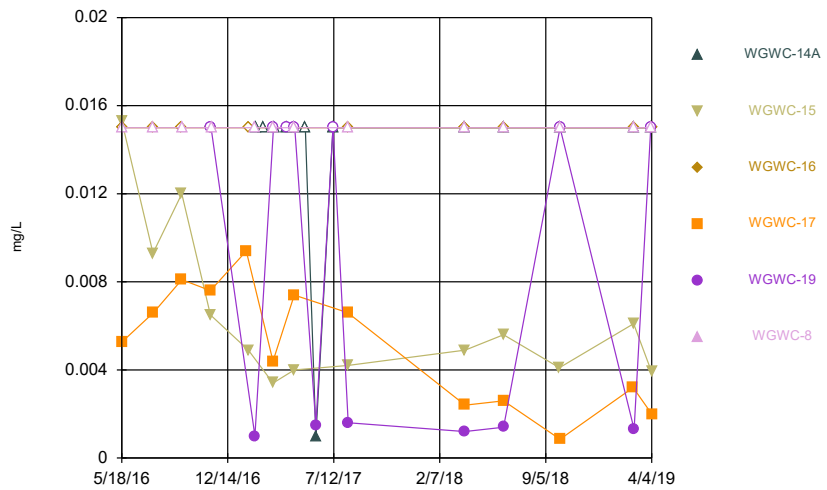
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Molybdenum



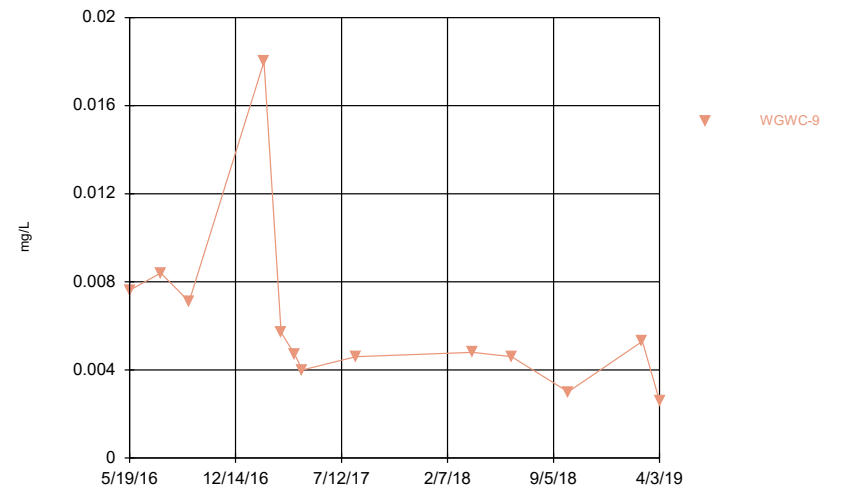
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Molybdenum



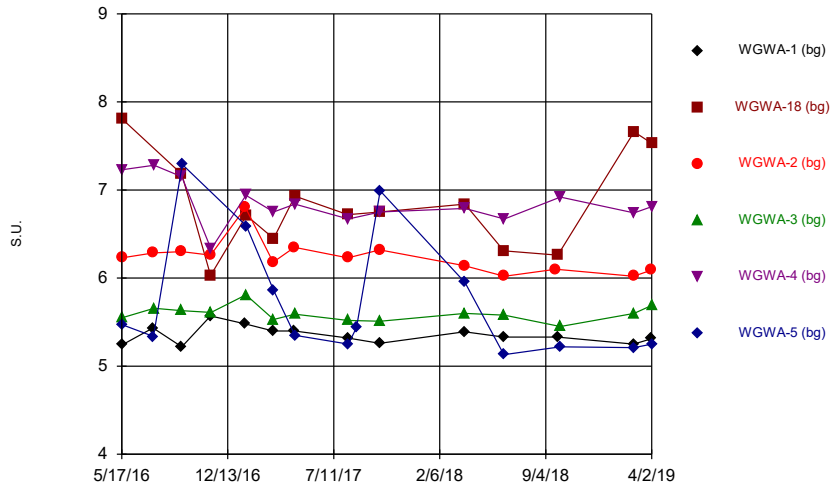
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Molybdenum

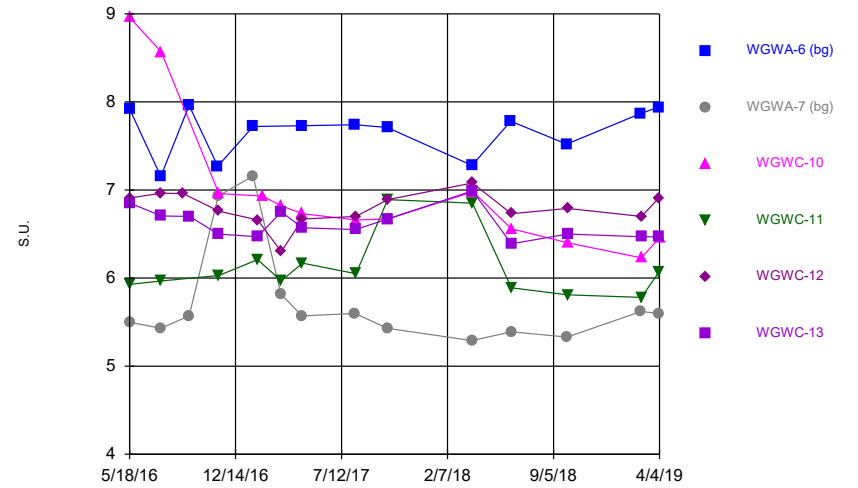


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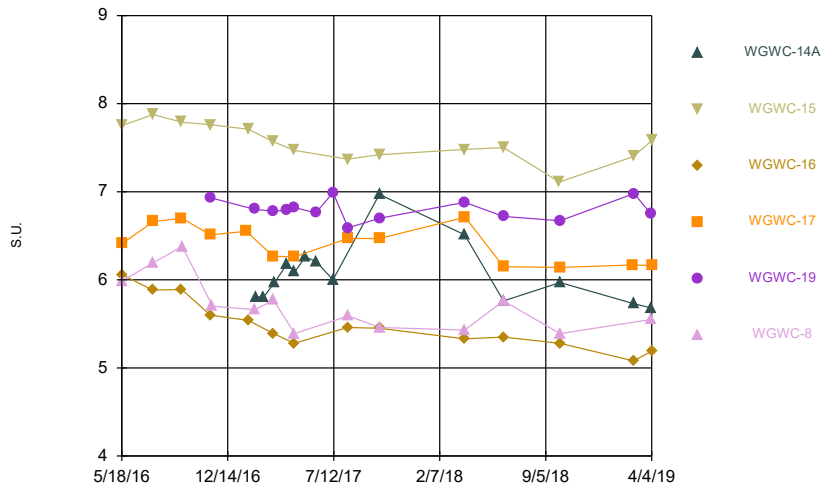
pH



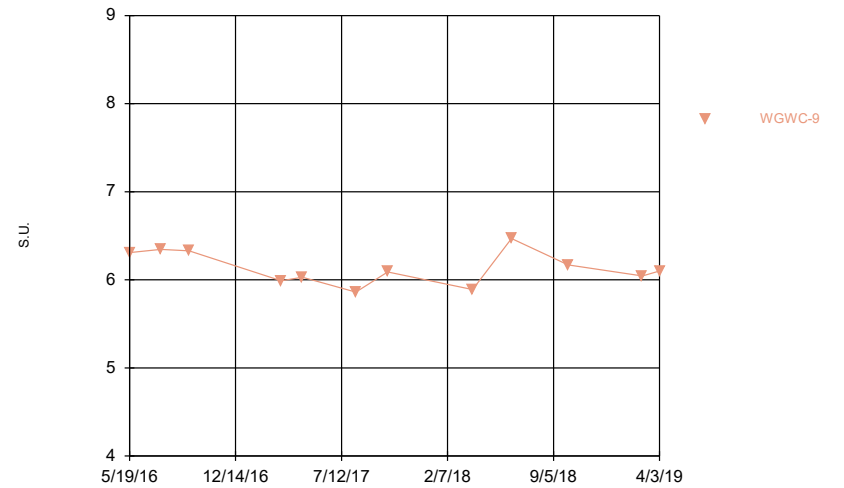
pH



pH

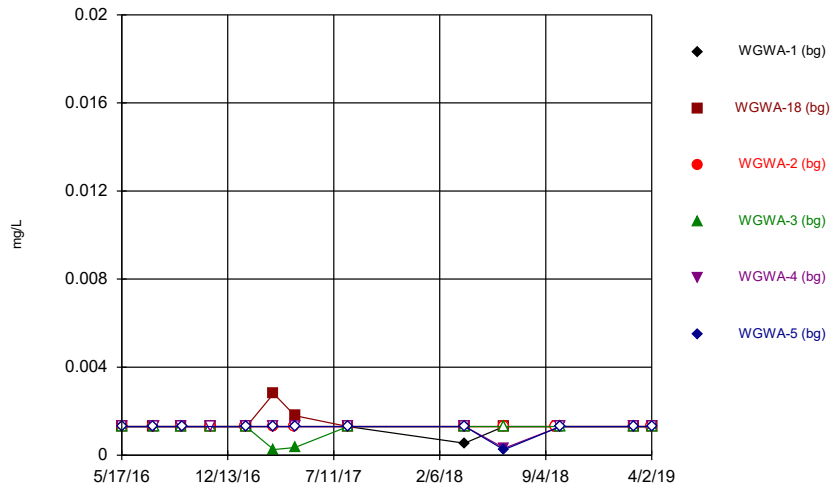


pH



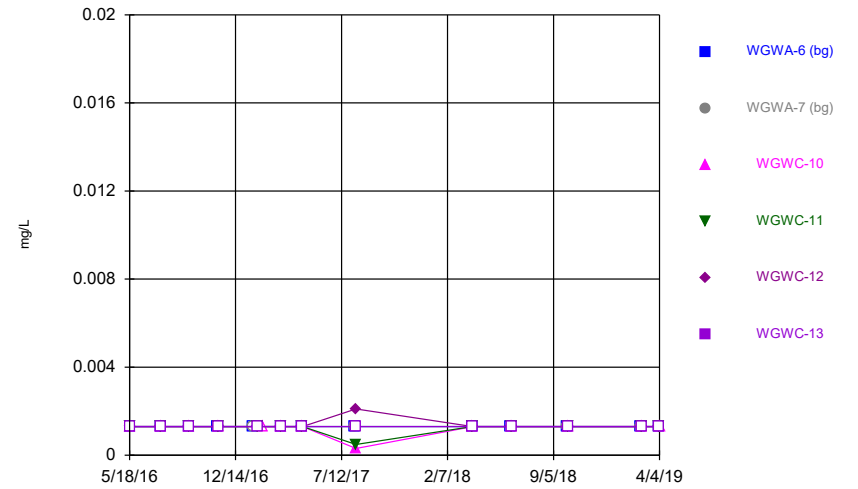


### Selenium



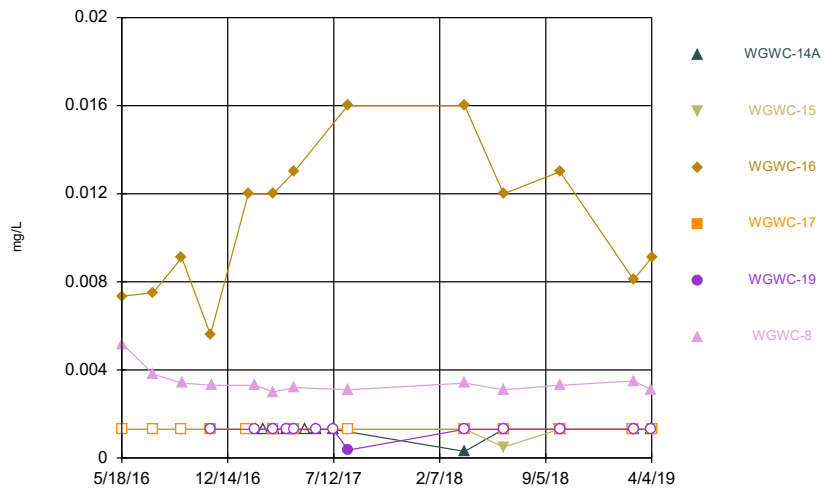
Time Series Analysis Run 6/6/2019 1:12 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Selenium



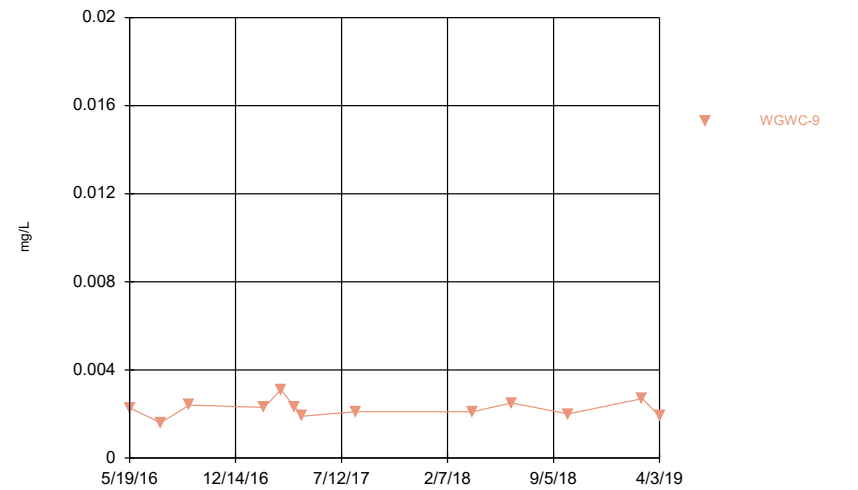
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Selenium



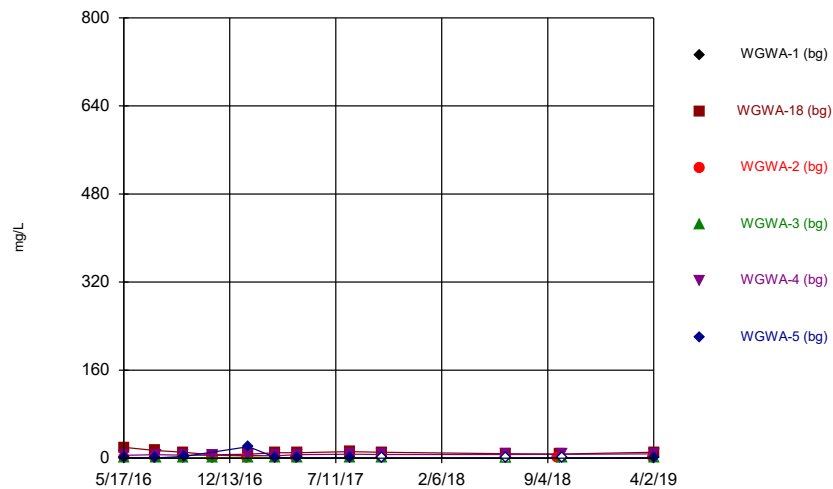
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Selenium



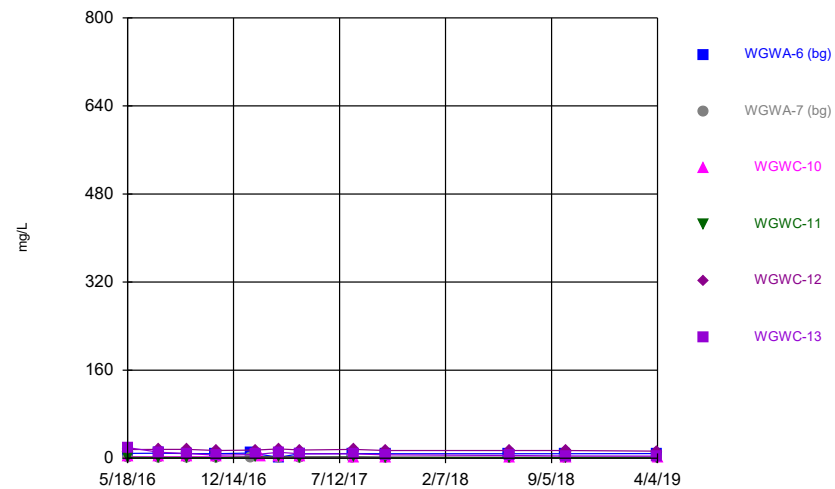
Time Series Analysis Run 6/6/2019 1:12 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Sulfate



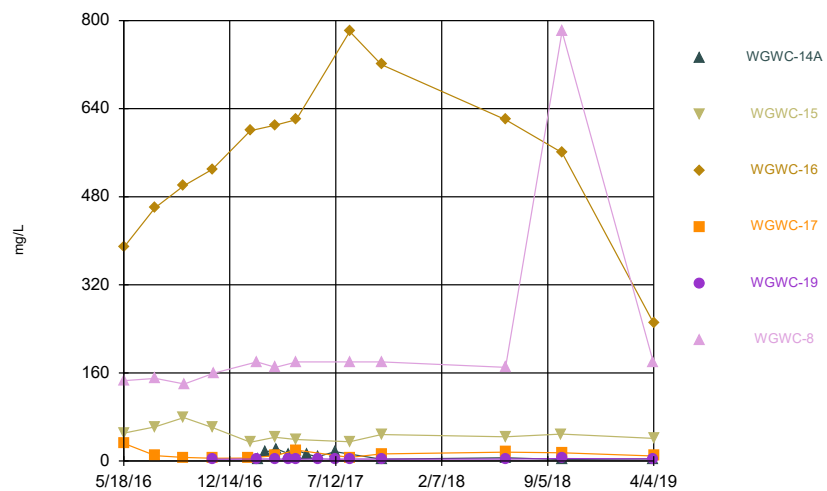
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Sulfate



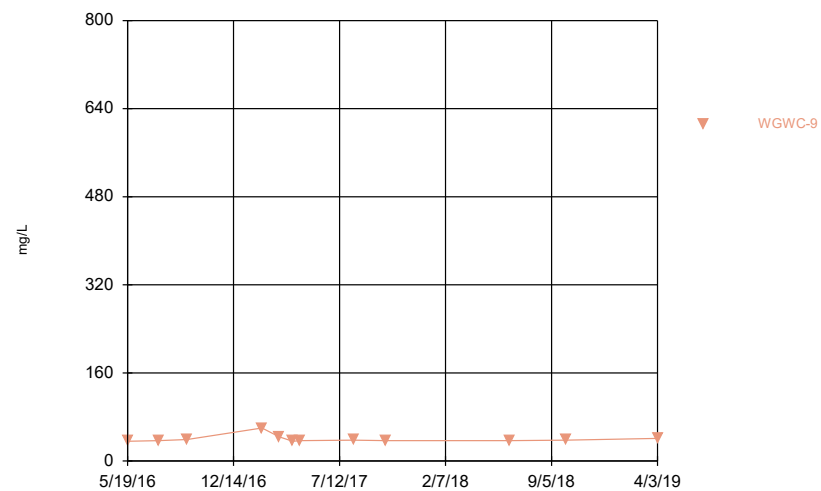
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### Sulfate



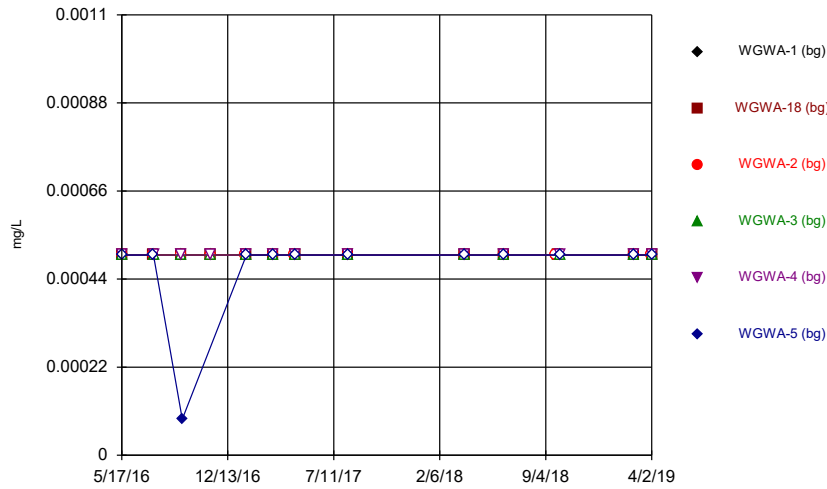
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### Sulfate



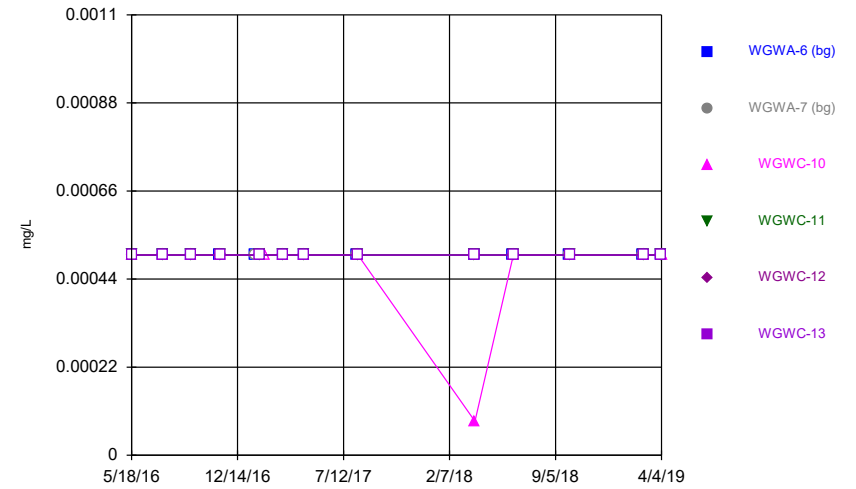
Time Series Analysis Run 6/6/2019 1:12 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Thallium



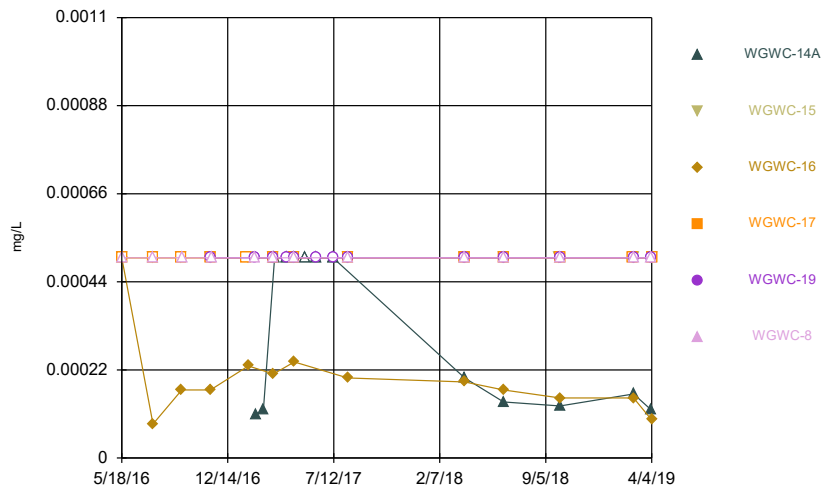
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Thallium



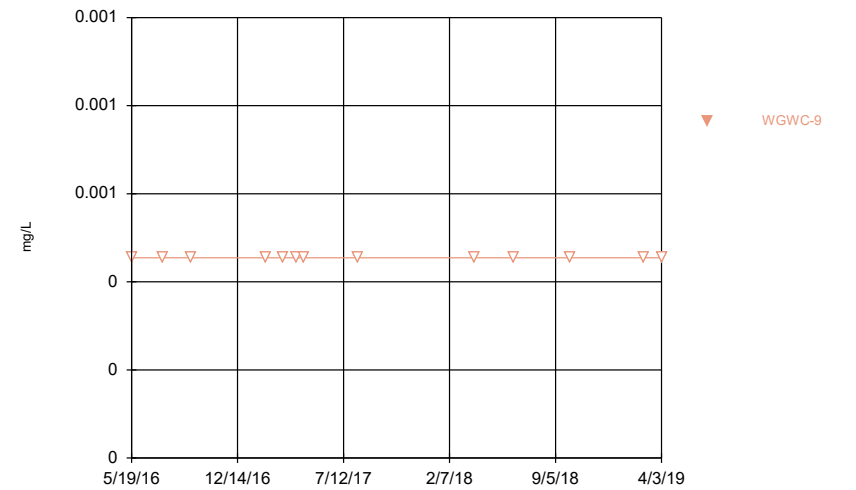
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Thallium



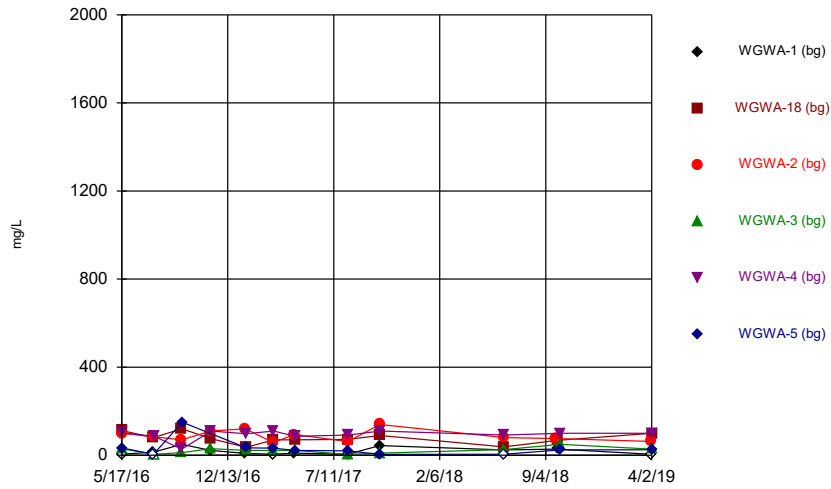
Time Series Analysis Run 6/6/2019 1:12 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Thallium



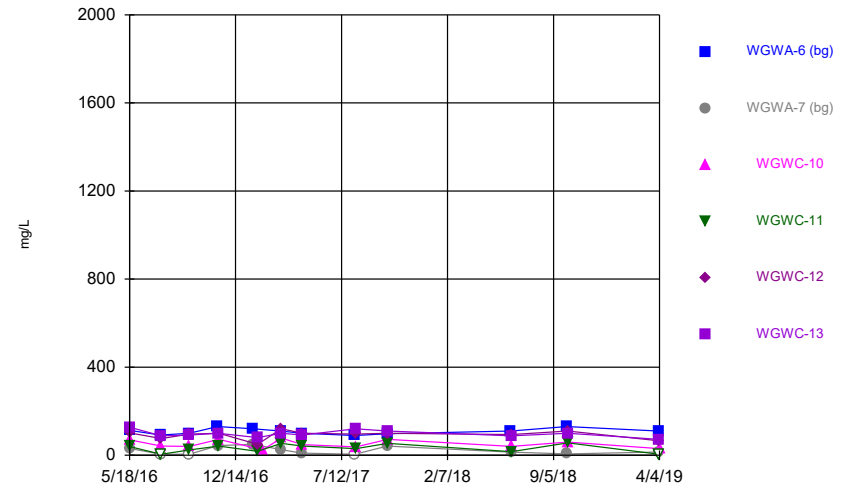
Time Series Analysis Run 6/6/2019 1:12 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Total Dissolved Solids



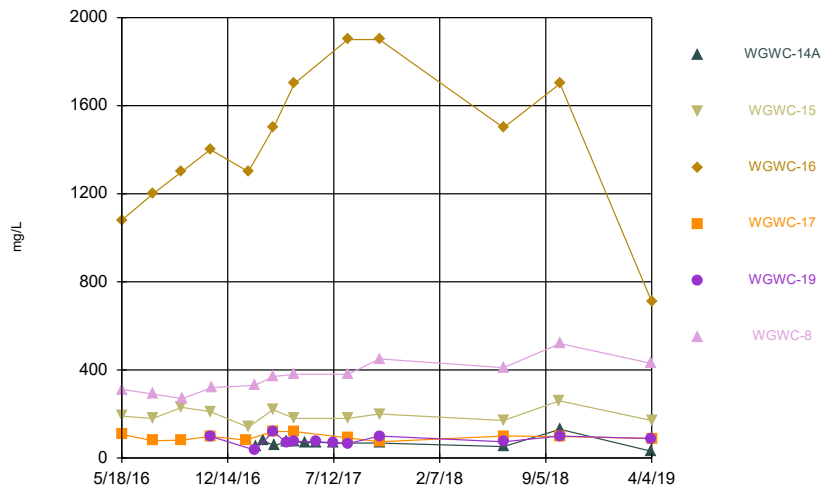
Time Series Analysis Run 6/6/2019 1:12 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### Total Dissolved Solids



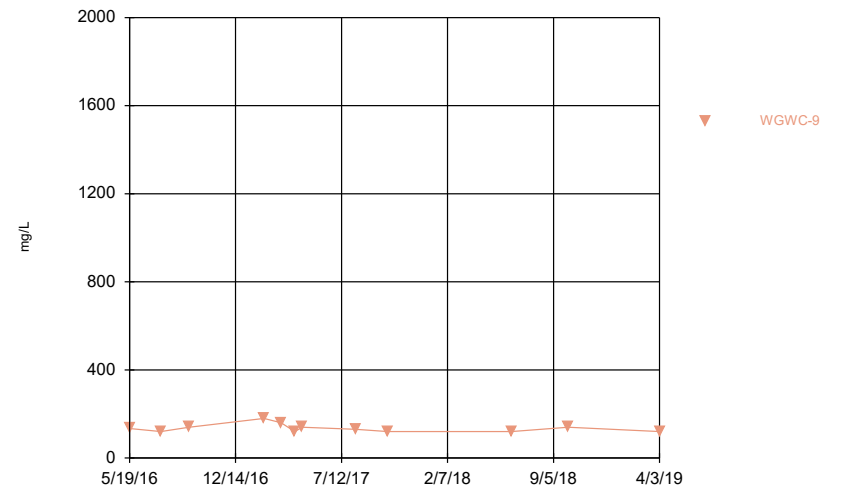
Time Series Analysis Run 6/6/2019 1:12 PM View: Time Series  
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

### 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

### 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