



# 2023 Semiannual Groundwater Monitoring and Corrective Action Report

**Plant Yates – AP-1  
Permit 038-017D(CCR)  
Newnan, Georgia**

February 28, 2024



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## Summary

This summary of the 2023 Semiannual Groundwater Monitoring and Corrective Action Report provides the status of the groundwater monitoring and corrective action program from July 2023 through December 2023 at Georgia Power Company’s (Georgia Power’s) Plant Yates Ash Pond (AP) AP-1 (the site). Arcadis U.S., Inc. (Arcadis) prepared this summary on behalf of Georgia Power to meet the requirements listed in Part A, Section 6<sup>1</sup> of the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Yates is located at 708 Dyer Road, approximately 8 miles northwest of Newnan and 13 miles southeast of Carrollton in Coweta County, Georgia. Plant Yates originally operated seven coal-fired steam generating units. Five of the units were retired in 2015, and two units were converted from coal to natural gas. CCR material resulting from power generation have historically been transferred and stored at the site. The site is located on the northwestern portion of the Plant Yates property. AP-1 was closed by removal of CCR material. The GA EPD approved Closure Permit No. 038-017D(CCR) for Plant Yates AP-1 on January 6, 2022.

Groundwater at the site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements of Solid Waste Permit (038-017D(CCR)). Routine sampling and reporting began in 2019 after the completion of eight background sampling events.

Based on groundwater conditions at the site, an assessment monitoring program was established on November 13, 2019. During this 2023 semiannual reporting period, the site remained in assessment monitoring.

During this reporting period, Arcadis conducted a groundwater sampling event in August 2023. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III<sup>2</sup> parameters in wells provided in the table below. There were no statistically significant levels (SSLs) detected for Appendix IV<sup>3</sup> parameters<sup>4</sup>.



*Plant Yates and the site*

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

<sup>2</sup> Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS).

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

<sup>4</sup> A statistically significant level SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent’s MCL, if available, the USEPA RSL, if no MCL is available, or the calculated background interwell prediction limit.

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Appendix III Parameter	August 2023
Boron	YGWC-44, YGWC-45, YGWC-46A
Calcium	YGWC-45, YGWC-46A
Chloride	YGWC-44, YGWC-46A
Sulfate	YGWC-46A
Total Dissolved Solids	YGWC-44, YGWC-45, YGWC-46A, YGWC-52

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program, the site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the site. Reports will be posted to the website and provided to Georgia Environmental Protection Division (GA EPD) semiannually.



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## Acronyms and Abbreviations

ACC	Atlantic Coast Consulting, Inc.
AP	Plant Yates Ash Ponds
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
EPD	Environmental Protection Division
GAEPD	Georgia Environmental Protection Division
GPC	Georgia Power Company
GWPS	Groundwater Protection Standard
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg/L	milligrams per liter
ORP	oxidation-reduction potential
QA/QC	Quality Assurance/Quality Control
SSI	Statistically Significant Increase
SSL	statistically significant level
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

## Professional Certification

This 2023 Semiannual Groundwater Monitoring and Corrective Action Report, Plant Yates (AP-1) has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Arcadis, U.S., Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4.01.

Arcadis U.S., Inc.



2.28.24

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Date

# 1 Introduction

This 2023 Semiannual Groundwater Monitoring and Corrective Action Report documents groundwater monitoring conducted at the Georgia Power Company (GPC) Plant Yates Ash Pond (AP) AP-1 (the site) between July 2023 and December 2023. This report was prepared in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (GAEPD) Rules for Solid Waste Management 391-3-4-.10. Groundwater monitoring requirements for the site are specified by GAEPD Rule 391-3-4-.10(6)(a), which also incorporates the USEPA CCR Rule. For ease of reference, the USEPA CCR Rules are cited within this report.

Groundwater monitoring and reporting for CCR units is performed in accordance with the monitoring requirements §§ 257.90 through 257.95 of the Federal CCR Rule and the GAEPD Rule 391-3-4-10(6)(a)-(c). An assessment monitoring notification was placed in the operating record in November 2019 based on statistically significant increases (SSIs) documented in the 2019 Annual Groundwater Monitoring and Corrective Action Report. This report presents the results of the semiannual monitoring for Appendix III and IV of 40 CFR 257 constituents conducted in August 2023.

## 1.1 Site Description and Background

Plant Yates is located at 708 Dyer Road on the east bank of the Chattahoochee River in Coweta County, Georgia near the Coweta and Carroll County line. The site is approximately 8 miles northwest of the City of Newnan and 13 miles southeast of the City of Carrollton. Plant Yates occupies approximately 2,400 acres. **Figure 1** depicts the site location relative to the surrounding area.

AP-1 was closed by removal; the CCR material was removed from AP-1 to the R6 CCR on-site landfill; a smaller portion was used to establish final grades for a portion of the AMA. GAEPD provided an acknowledgement of removal of CCR in a letter dated November 3, 2020. A permit application to comply with GAEPD Rules was submitted in November 2018 and approved on January 6, 2022 (038-017D(CCR)). Semiannual reporting is completed pursuant to 391-3-4-.10(6)(c). Areas where CCR Removal Reports have been submitted to GAEPD are shown in **Figure 2**.

## 1.2 Site Geology and Hydrogeologic Setting

Plant Yates is located in the Inner Piedmont Physiographic Province of western Georgia, immediately southeast of the Brevard Zone, a regional fault zone that separates the Piedmont from the Blue Ridge. Rock units at Plant Yates are primarily interlayered gneiss and schists. The rocks in the area have been subjected to extensive metamorphism, deformation, and igneous intrusions. Extensive fracture sets are present in the underlying bedrock. Surface expressions of these fractures are observed on topographic maps and aerial photos of the Plant Yates area (ACC 2019).

A thin layer of soil from 1 to 2 feet thick overlies a thick layer of saprolite. The saprolite, which extends to typical depths of 20 to 40 feet below ground surface, was formed in place by the physical and chemical weathering of the underlying metamorphic rocks. The saprolite typically consists of clay and silt-rich soils that grade to sandier soils with depth. A zone of variable thickness (approximately 5 to 20 feet) of transitionally weathered rock typically exists between the saprolite and competent bedrock. The lithology of the transition zone is highly variable and ranges from medium to coarse unconsolidated material to highly fractured and weathered rock fragments.



Localized alluvial soils consisting of generally coarser material (silty-sand, clayey silt, and silty clay with well-rounded gravel and cobbles) that have been observed in saprolite may be related to historical river channel migration.

At Plant Yates, groundwater is typically encountered slightly above the saprolite/weathered rock interface. Groundwater flow in the saprolite zone is through interconnected pores and relict textures and fractures. As the rock becomes increasingly competent with depth, groundwater flow occurs mainly through joints and fractures (i.e., secondary porosity). Recharge to the water-bearing zones in fractured bedrock takes place by seepage through the overlying mantle of soil/saprolite, or by direct entrance through openings in outcrops. The average depth of the water table at Plant Yates varies with topography, ranging from approximately 5 to 50 feet below ground surface. The water table occurs in the saprolite and in the transitionally weathered zone, at least several feet above the top of rock.

Field hydraulic conductivity tests (i.e., slug tests) have been performed in saprolite and weathered bedrock at multiple locations at the site. The hydraulic conductivity at these locations is typically in a range from  $10^{-3}$  to  $10^{-4}$  centimeters per second, based on multiple rising-head and falling-head slug tests conducted in 2017 (ACC 2021). This indicates a fairly uniform medium across the saprolite and weathered rock horizon. The hydraulic conductivity values from the field tests fall within a range consistent with that of Piedmont overburden (Newell et al. 1990).

### 1.3 Groundwater Monitoring Well Network and CCR Unit Description

Pursuant to § 257.91, a groundwater monitoring system was installed within the uppermost aquifer at Plant Yates' AP-1 CCR Unit. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Unit within the uppermost aquifer. Wells are located to monitor upgradient and downgradient conditions based on groundwater flow direction. The compliance monitoring well network is summarized in **Table 1** along with a series of piezometers installed to supplement groundwater elevation measurements.

As typical of the Piedmont Physiographic Province, there is a degree of connectivity between the saprolite and partially weathered rock units. Fractured bedrock may or may not be connected to the overlying units, and flow may be controlled by geologic structures present. Based on the site hydrogeology, the monitoring system is designed to monitor groundwater flow in the saprolite, the transition zone, and the upper bedrock. The monitoring well network for the site is illustrated on **Figure 3**.

## 2 Groundwater Monitoring

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed in the second half of 2023 and presents the status of the monitoring program. Groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected from each well in the certified monitoring system shown on **Figure 3**.

**Table 2** summarizes groundwater sampling events conducted at the site from July through December 2023. During the August 2023 event, groundwater samples were collected for both 40 CFR 257 Appendix III and the Appendix IV constituents. Laboratory reports for the monitoring events are presented in **Appendix A**. Field sampling logs are provided in **Appendix B**.

## 2.1 Monitoring Well Installation and Maintenance

Monitoring well-related activities were limited to visual inspection well conditions before sampling, recording the site conditions, and performing exterior maintenance to provide safe access for sampling. Details regarding the wells are included in **Table 1**, and locations are presented on **Figure 3**.

Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In August 2023, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed where necessary, as documented in **Appendix B**. There were no well maintenance issues during this period that required corrective actions.

## 2.2 Assessment Monitoring

SSIs of Appendix III constituents were identified in the initial detection monitoring event (March 2019). Pursuant to 40 CFR §§ 257.95(b) and 257.95(d)(1), groundwater samples collected in August 2023 from the CCR monitoring wells were analyzed for Appendix III and Appendix IV constituents. **Table 3** provides a summary of constituents monitored during the events.

# 3 Sampling Methodology and Analysis

Groundwater monitoring methods used at the site are described in the following sections.

## 3.1 Groundwater Flow Direction, Gradient, and Velocity

Before each sampling event, static water elevations were recorded from piezometers and wells in the well network at AP-1. Groundwater elevations recorded during the August 2023 monitoring event are summarized in **Table 4**. Sitewide and AP-1 potentiometric surface maps are provided in **Figures 4 and 5**, respectively. The general direction of groundwater flow across the site is towards the west/southwest and is consistent with historical patterns.

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

Specifically:

$$v = \frac{k \left( \frac{dh}{dl} \right)}{n_e}$$

where:

v = groundwater seepage velocity

k = hydraulic conductivity

dh/dl = hydraulic gradient

n<sub>e</sub> = effective porosity

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 0.20 (based on a review of several sources including Driscoll 1986, USEPA 1989, and Freeze and Cherry 1979). Groundwater flow velocities have been calculated and are presented in **Table 5**. The calculated flow velocity is approximately 1.3 feet per day (475 feet per year). These calculated groundwater velocities across the site are generally consistent with historical calculations and with expected velocities in the site-specific geology.

## 3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Monitoring wells were purged and sampled using a dedicated bladder pump until water quality parameters stabilized. For wells sampled with non-dedicated bladder pumps, the pumps were lowered into the well so that the intake was at the midpoint of the well screen (or as appropriate determined by the water level). Non-disposable equipment was decontaminated before use and between well locations.

An AquaTroll 600™ (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, temperature, oxidation-reduction potential [ORP], and dissolved oxygen [DO]) during well purging to verify stabilization before sampling. Turbidity was measured using a portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met for a minimum of three consecutive readings:

- $\pm 0.1$  standard units for pH;
- $\pm 5\%$  for specific conductance;
- Turbidity measurements less than 5 nephelometric turbidity units; and
- $\pm 10\%$  or  $\pm 0.2$  mg/L (whichever is greater) for DO where DO  $> 0.5$  mg/L. If DO  $< 0.5$  mg/L no stabilization criteria apply.

Once stabilization was achieved, samples were collected directly into laboratory-supplied sample containers with preservative (where applicable). The samples were placed on ice in an insulated cooler following their collection. The samples were submitted to Pace Analytical Services, LLC (following chain-of-custody protocol). Stabilization logs for each well and daily field calibration forms are included in **Appendix B**.

## 3.3 Laboratory Analysis

Groundwater samples collected during the August 2023 semiannual assessment event were analyzed for Appendix III parameters as well as Appendix IV parameters in accordance with 40 CFR §§ 257.95(b) and 257.95(d)(1). **Table 3** provides a summary of the constituents monitored during the event. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix A**.

Analytical data from the semiannual sampling for AP-1, and the upgradient wells collected in compliance with the CCR Rule, are summarized in **Tables 6a and 6b**, respectively. Laboratory analyses were performed by Pace Analytical Services, LLC, which is accredited by the National Environmental Laboratory Accreditation Program and maintains this certification for all parameters analyzed for this project. Laboratory reports and chain-of-custody records for the monitoring events are presented in **Appendix A**.

## 3.4 Data Quality Assurance/Quality Control and Validation

During each sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one per 10 samples. QA/QC samples included equipment blanks (where non-dedicated equipment is used), field blanks, and duplicate samples. Groundwater quality data in this report were validated in accordance with USEPA guidance (USEPA 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post-digestion spikes, laboratory and field duplicate relative percent differences, equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags have been

applied to the data using USEPA procedures as guidance (USEPA 2017). The data validation reports, prepared by Arcadis and included in **Appendix A**, summarize the validation actions and applicable interpretation.

The purpose of the data quality evaluation was to determine the reliability of the chemical analyses and the accuracy and precision of information acquired from the laboratory. Data quality was assessed through the review and evaluation of field sampling activities, quality control samples, and data associated with the chemical analytical results. The validated data meet project objectives and the associated data validation reports are provided in **Appendix A** along with the laboratory reports.

Values followed by a "J" flag indicate that the value is an estimated analyte concentration detected between the MDL and the laboratory reporting limit. 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 Statistical Analysis

Statistical analysis of Appendix III and IV groundwater monitoring data was performed on samples collected from the AP-1 groundwater monitoring network pursuant to § 257.93(f) in August 2023. The statistical method used at the site was developed in accordance with 40 CFR § 257.93(f) using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, USEPA 530/R-09-007 (USEPA 2009).

### 4.1 Statistical Methods

The Sanitas™ groundwater statistical software was used to perform the statistical analyses. Sanitas™ is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the Unified Guidance document (USEPA 2009). Although assessment monitoring has been implemented, statistical evaluation of Appendix III constituents is performed to determine whether constituents have returned to background conditions.

#### 4.1.1 Appendix III Constituents

Groundwater data were evaluated using interwell prediction limits for Appendix III parameters. This method uses sitewide pooled upgradient monitoring well data to establish a background statistical limit. Data from the semiannual events were compared to the statistical limit to determine whether concentrations exceeded background levels. The statistical method incorporates an optional 1-of-2 verification resample plan. When an initial SSI or questionable result occurs, a second sample may be collected to verify the initial result or determine whether the result was an outlier. If resampling is performed and the initial finding is not verified, the resampled value replaces the initial finding. When the resample confirms the initial result, both values remain in the database and an SSI is declared. The following criteria were applied to the evaluation:

- Statistical analyses were not performed on analytes exhibiting 100 percent non-detects.
- When data contained less than 15 percent non-detects in background, simple substitution of one half the reporting limit was used in the statistical analysis. The reporting limit used for non-detects is the practical quantification limit reported by the laboratory.

- When data contained between 15 to 50 percent non-detects, the Kaplan-Meier non-detect adjustment was applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Non-parametric prediction limits were used on data containing greater than 50 percent non-detects.

#### 4.1.2 Appendix IV Assessment Monitoring Statistics

Parametric tolerance limits were used to calculate background limits from pooled upgradient well data for the wells identified in **Table 1** for Appendix IV parameters with a target of 95 percent confidence and 95 percent coverage. When data contained greater than 50 percent non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. The confidence and coverage levels for non-parametric tolerance limits depend on the number of background samples. The background limits were then used when determining the Groundwater Protection Standards (GWPS) established under 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a).

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

- The maximum contaminant level (MCL) established under §§ 141.62 and 141.66;
- For the following constituents:
  - Cobalt 0.006 milligram per liter (mg/L)
  - Lead 0.015 mg/L
  - Lithium 0.040 mg/L
  - Molybdenum 0.100 mg/L
- The background level for constituents for which the background level is higher than the MCL or rule identified GWPS.

GWPS have been established for statistical comparison of Appendix IV constituents at AP-1. **Table 7** summarizes the background levels established at each monitoring well for the August 2023 sampling events along with the GWPS.

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. A well/constituent pair was considered to exceed its respective standard only when the entire confidence interval exceeded a GWPS. If there was an exceedance of the established standard, an SSL exceedance was identified.

## 4.2 Statistical Analysis Results

Appendix III statistical analysis for wells associated with the site was performed to determine whether constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine whether concentrations statistically exceed the established GWPS. Analytical data from the August 2023 event were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats Consulting 2019).



### 4.2.1 Appendix III Constituents

Based on review of the Appendix III statistical analysis presented in **Appendix C**, Appendix III constituent concentrations have not returned to background levels, and assessment monitoring should continue pursuant to 40 CFR § 257.95(f). A table summarizing these constituents and wells is provided in **Appendix C**.

### 4.2.2 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the August 2023 Appendix IV data at AP-1 was completed using the GWPS established according to both 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). No Statistically Significant Levels (SSLs) were identified.

## 5 Monitoring Program Status

In accordance with 40 CFR § 257.94(e), an assessment monitoring program was implemented in November 2019. No statistical exceedance of a GWPS for Appendix IV parameters has been identified. Pursuant to 40 CFR § 257.96(b), groundwater will continue to be monitored at AP-1 in accordance with the assessment monitoring program regulations of 40 CFR § 257.95 due to SSIs for Appendix III parameters.

## 6 Conclusions and Future Actions

This 2023 Annual Groundwater Monitoring and Corrective Action Report was prepared to fulfill the requirements of USEPA's CCR Rule 40 CFR § 257.95 and GAEPD Rule 391-3-4-.10. Statistical evaluations of the groundwater monitoring data for the site identified no exceedance of a GWPS for an Appendix IV constituent.

The next assessment monitoring event is scheduled for February 2024. This monitoring event will include sampling and analysis of all Appendix III and IV constituents.

## 7 References

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# Tables

**Table 1**  
**Monitoring Network Well Summary**  
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**Georgia Power Company**  
**Plant Yates AP-1**

Well ID	Installation Date	Top of Casing Elevation (ft)	Bottom Depth (ft bTOC)	Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	Purpose
<b>Upgradient Wells</b>							
YGWA-4I	5/21/2014	784.21	48.81	735.40	38.51	745.70	Upgradient
YGWA-5I	5/21/2014	784.54	58.94	725.60	48.64	735.90	Upgradient
YGWA-5D	5/21/2014	784.53	129.13	655.40	78.83	706.00	Upgradient
YGWA-17S	9/10/2015	783.05	39.85	743.20	29.55	753.20	Upgradient
YGWA-18S	9/8/2015	790.57	39.97	750.60	29.97	760.90	Upgradient
YGWA-18I	9/8/2015	790.57	79.97	710.60	69.67	720.90	Upgradient
YGWA-20S	9/29/2015	767.12	29.52	737.60	19.22	747.90	Upgradient
YGWA-21I	9/28/2015	783.70	79.90	703.80	69.60	714.10	Upgradient
YGWA-39	7/7/2016	818.19	68.59	749.60	58.09	760.10	Upgradient
YGWA-40	7/7/2016	815.73	48.23	767.50	37.73	778.00	Upgradient
YGWA-1I	5/20/2014	836.60	53.60	783.00	43.30	793.30	Upgradient
YGWA-1D	5/20/2014	837.25	128.85	708.40	78.05	759.20	Upgradient
YGWA-2I	5/20/2014	866.25	63.75	802.50	53.45	812.80	Upgradient
YGWA-3I	5/20/2014	796.55	59.05	737.50	48.85	747.70	Upgradient
YGWA-3D	5/20/2014	796.78	134.18	662.60	83.88	712.90	Upgradient
YGWA-14S	5/20/2014	748.76	34.96	713.80	24.66	724.10	Upgradient
YGWA-30I	9/23/2015	762.58	59.48	703.10	49.18	713.40	Upgradient
YGWA-47	7/11/2016	758.22	59.19	696.41	48.62	709.60	Upgradient
GWA-2	4/12/2007	805.62	52.02	753.60	41.82	763.80	Upgradient
<b>Downgradient Wells</b>							
YGWC-44	7/13/2016	758.35	89.85	665.65	78.35	680.00	Detection
YGWC-45	7/10/2016	719.36	72.86	643.64	62.86	656.50	Detection
YGWC-46A	6/1/2020	733.04	70.79	659.31	60.79	672.25	Detection
YGWC-52	5/28/2020	755.86	79.22	673.68	69.22	686.64	Detection
<b>Piezometers</b>							
PZ-09S	5/19/2014	712.08	59.28	650.52	48.98	663.10	Water Levels
PZ-09I	5/19/2014	712.13	79.33	630.47	69.03	643.10	Water Levels
PZ-10S	5/19/2014	700.43	18.63	679.47	8.33	692.10	Water Levels
PZ-10I	5/19/2014	700.25	48.95	648.85	38.65	661.60	Water Levels
PZ-53	11/18/2019	732.90	72.00	657.90	61.71	671.19	Water Levels

**Notes:**

Elevation is presented in U.S. Survey Feet (North American Vertical Datum of 1988).

**Acronyms and Abbreviations:**

bTOC = below top of casing

ft = feet

**Table 2**  
**Groundwater Sampling Event Summary**  
**2023 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates AP-1**



Well ID	Hydraulic Location	Semiannual Assessment <sup>1</sup>
		August 2023
YGWA-47	Upgradient	X
YGWA-4I	Upgradient <sup>2</sup>	X
YGWA-5I	Upgradient <sup>2</sup>	X
YGWA-5D	Upgradient <sup>2</sup>	X
YGWA-17S	Upgradient <sup>2</sup>	X
YGWA-18S	Upgradient <sup>2</sup>	X
YGWA-18I	Upgradient <sup>2</sup>	X
YGWA-20S	Upgradient <sup>2</sup>	X
YGWA-21I	Upgradient <sup>2</sup>	X
YGWA-39	Upgradient <sup>2</sup>	X
YGWA-40	Upgradient <sup>2</sup>	X
GWA-2	Upgradient <sup>2</sup>	X
YGWA-1I	Upgradient <sup>2</sup>	X
YGWA-1D	Upgradient <sup>2</sup>	X
YGWA-2I	Upgradient <sup>2</sup>	X
YGWA-3I	Upgradient <sup>2</sup>	X
YGWA-3D	Upgradient <sup>2</sup>	X
YGWA-14S	Upgradient <sup>2</sup>	X
YGWA-30I	Upgradient <sup>2</sup>	X
YGWC-44	Downgradient	X
YGWC-45	Downgradient	X
YGWC-46A	Downgradient	X
YGWC-52	Downgradient	X

**Notes**

1. All wells analyzed for Appendix III and Appendix IV.

2. Pooled upgradient wells

Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III

Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV



**Table 3**  
**Groundwater Monitoring Parameters**  
**2023 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates AP-1**



40 CFR 257 Appendix III	40 CFR 257 Appendix IV
Boron	Antimony
Calcium	Arsenic
Chloride	Barium
Fluoride	Beryllium
pH	Cadmium
Sulfate	Chromium
Total Dissolved Solids	Cobalt
	Fluoride
	Lead
	Lithium
	Mercury
	Molybdenum
	Combined Radium - 226/228
	Selenium
	Thallium

**Notes:**

CFR - Code of Federal Regulations

**Table 4**  
**Summary of Groundwater Elevations**  
**2023 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates AP-1**



Well ID	Dated Measured	TOC (ft)	Depth-to-Water (ft bTOC)	Groundwater Elevation (ft)
<b>Downgradient Wells - August 2023</b>				
YGWC-44	8/14/2023	758.35	49.52	708.83
YGWC-45	8/14/2023	719.36	22.78	696.58
YGWC-46A	8/14/2023	733.04	39.88	693.16
YGWC-52	8/14/2023	755.86	37.14	718.72
PZ-09S	8/14/2023	712.08	19.29	692.79
PZ-09I	8/14/2023	712.13	19.59	692.54
PZ-10S	8/14/2023	700.43	8.42	692.01
PZ-10I	8/14/2023	700.25	13.38	686.87
PZ-53	8/14/2023	732.90	39.78	693.12
<b>Upgradient Wells - August 2023</b>				
YGWA-4I	8/14/2023	784.21	24.27	759.94
YGWA-5I	8/14/2023	784.54	20.58	763.96
YGWA-5D	8/14/2023	784.53	20.89	763.64
YGWA-17S	8/14/2023	783.05	14.38	768.67
YGWA-18S	8/14/2023	790.57	21.97	768.60
YGWA-18I	8/14/2023	790.57	24.90	765.67
YGWA-20S	8/14/2023	767.12	11.54	755.58
YGWA-21I	8/14/2023	783.70	31.80	751.90
YGWA-39	8/14/2023	818.19	17.61	800.58
YGWA-40	8/14/2023	815.73	23.70	792.03
YGWA-1I	8/14/2023	836.60	37.23	799.37
YGWA-1D	8/14/2023	837.25	49.55	787.70
YGWA-2I	8/14/2023	866.25	44.76	821.49
YGWA-3I	8/14/2023	796.55	53.07	743.48
YGWA-3D	8/14/2023	796.78	31.49	765.29
YGWA-14S	8/14/2023	748.76	18.53	730.23
YGWA-30I	8/14/2023	762.58	42.42	720.16
YGWA-47	8/14/2023	758.22	33.81	724.41
GWA-2	8/14/2023	805.62	36.83	768.79

**Notes**

Elevation in U.S. Survey Feet (NAVD88)

**Acronyms and Abbreviations:**

bTOC = below top of casing

ft = feet

NM - not measured

TOC = top of casing

**Table 5**  
**Groundwater Flow Velocity Calculations**  
**2023 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates - AP-1**



**Equation**

$$V = \frac{K (dh/dl)}{n_e}$$

where: V = groundwater velocity  
 K = hydraulic conductivity  
 dh/dl = i = hydraulic gradient  
 n<sub>e</sub> = effective porosity

**Values Used in Calculation**

Value		Source
K:	3.70E-03 cm/sec 10.5 ft/day	See note 1
i =	0.024 unitless	Hydraulic gradient from: YGWA-47 to YGWC-45 (Aug. 2023) Distance (ft): 1172 Elevations (ft): YGWA-47: 724.41 YGWC-45: 696.58
n <sub>e</sub> =	0.20 unitless	See note 2

**Average Linear Velocity**

Aug. 2023

$$V_{min} = \frac{(10.5) (0.024)}{0.20}$$

$$V_{min} = 1.3 \text{ ft/day, or } 475 \text{ ft/year}$$

**Notes**

1. Slug tests performed by Atlantic Coast Consulting, Inc. in 2017 (ACC 2021).
2. Default value recommended by USEPA for silty sand-type soil (USEPA 1989).

	Analyte Name	Units	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
			8/15/2023	8/15/2023	8/15/2023	8/15/2023
Appendix III	pH	SU	5.79	6.97	7.51	6.05
	Boron	mg/l	0.60	0.36	2.1	0.014 J
	Calcium	mg/l	30.0	46.3	111	34.6
	Chloride	mg/l	13.4	5.6	32.2	3.0
	Fluoride	mg/l	< 0.050	0.070 J	0.12	< 0.050
	Sulfate	mg/l	113	154	419	96.5
	Total Dissolved Solids	mg/l	319	404	945	267
Appendix IV	Antimony	mg/l	0.0023 J	< 0.0012	< 0.0012	< 0.0012
	Arsenic	mg/l	< 0.0037	< 0.0037	< 0.0037	< 0.0037
	Barium	mg/l	0.084	0.049	0.040	0.019
	Beryllium	mg/l	< 0.000054	< 0.000054	< 0.000054	< 0.000054
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	0.00084 J	0.00053 J	0.0012 J	0.0017 J
	Fluoride	mg/l	< 0.050	0.070 J	0.12	< 0.050
	Lead	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012
	Lithium	mg/l	0.013 J	0.012 J	0.012 J	0.0040 J
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	< 0.00074	0.0011 J	0.0031 J	< 0.00074
	Combined Radium - 226/228	pCi/l	1.15	1.34	1.92	1.07 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018

**Notes:**

Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III

Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV

**Acronyms and Abbreviations:**

mg/L = milligrams per liter

pCi/L = picoCuries per liter

< = Analyte was not detected above the laboratory method detection limit (MDL)

J: Estimated concentration above the method detection limit and below the reporting limit.

U: 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.

Appendix	Analyte	Units	GWA-2	YGWA-1I	YGWA-1D	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-4I	YGWA-5I	YGWA-5D
			8/15/2023	8/15/2023	8/15/2023	8/15/2023	8/16/2023	8/15/2023	8/15/2023	8/15/2023	8/15/2023
Appendix III	pH	SU	5.30	5.88	6.98	6.96	7.39	7.69	5.99	5.58	7.34
	Boron	mg/l	< 0.043	0.0094 J	< 0.0086	< 0.043	< 0.043	< 0.043	< 0.0086	< 0.043	< 0.043
	Calcium	mg/l	20.3	1.8	13.5	23.2	24.9	27.4	7.8	2.6	25.0
	Chloride	mg/l	5.6	1.4	1.1	0.93 J	1.1	1.1	4.4	4.1	3.1
	Fluoride	mg/l	0.065 J	< 0.050	0.057 J	0.081 J	0.11	0.42	< 0.050	< 0.050	< 0.050
	Sulfate	mg/l	74.2	4.6	9.6	17.2	20.3	6.8	7.5	2.2	4.8
	Total Dissolved Solids	mg/l	230	65.0	121	157	148	231	99.0	76.0	219
Appendix IV	Antimony	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
	Arsenic	mg/l	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037
	Barium	mg/l	0.030	0.0078	0.0059	0.0031 J	0.0037 J	0.0046 J	0.011	0.018	0.0074
	Beryllium	mg/l	< 0.00027	< 0.000054	< 0.000054	< 0.00027	< 0.00027	< 0.00027	< 0.000054	< 0.00027	< 0.00027
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	0.031	0.00072 J	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
	Lithium	mg/l	< 0.0036	0.0020 J	0.0079 J	< 0.0036	0.025 J	0.023 J	0.0083 J	< 0.0036	0.0059 J
	Mercury	mg/l	< 0.00013	0.00015 J	0.00015 J	0.00015 J	< 0.00013	0.00014 J	0.00013 J	0.00014 J	0.00015 J
	Molybdenum	mg/l	< 0.00074	0.0047 J	0.0098 J	0.0071 J	0.012	0.012	< 0.00074	< 0.00074	0.00090 J
	Combined Radium - 226/228	pCi/l	0.916 U	1.06 U	1.08 U	1.03 U	1.87	2.79	1.14	1.02 U	3.44
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

**Notes:**  
 Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III  
 Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV

**Acronyms and Abbreviations:**

mg/L = milligrams per liter  
 pCi/L = picoCuries per liter  
 < = Analyte was not detected above the laboratory method detection limit (MDL)  
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 U: 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.



Appendix	Analyte	Units	GWA-2	YGWA-14S	YGWA-17S	YGWA-18I	YGWA-18S	YGWA-20S	YGWA-21I	YGWA-30I	YGWA-39
			8/15/2023	8/15/2023	8/15/2023	8/15/2023	8/15/2023	8/15/2023	8/15/2023	8/15/2023	8/16/2023
Appendix III	pH	SU	5.30	5.03	5.54	5.82	5.20	7.00	6.84	5.55	5.78
	Boron	mg/l	< 0.043	0.017 J	< 0.043	< 0.043	< 0.0086	< 0.043	0.046 J	< 0.043	0.15 J
	Calcium	mg/l	20.3	1.3	2.9	5.1	0.80 J	2.2	6.1	1.4	17.2
	Chloride	mg/l	5.6	4.1	11.6	7.3	6.7	2.8	2.3	1.5	4.5
	Fluoride	mg/l	0.065 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.061 J	< 0.050	< 0.050
	Sulfate	mg/l	74.2	6.0	4.6	0.51 J	0.88 J	< 0.50	4.1	0.90 J	7.6
	Total Dissolved Solids	mg/l	230	69.0	74.0	96.0	81.0	62.0	126	48.0	225
Appendix IV	Antimony	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
	Arsenic	mg/l	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037	< 0.0037
	Barium	mg/l	0.030	0.0079	0.016	0.020	0.012	0.012	0.0075	0.0066	0.031
	Beryllium	mg/l	< 0.00027	0.00018 J	< 0.00027	< 0.00027	0.000057 J	< 0.00027	< 0.00027	< 0.00027	< 0.00027
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0013 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	0.031	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	0.011	0.0028 J	0.00072 J
	Lead	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
	Lithium	mg/l	< 0.0036	< 0.00073	< 0.0036	< 0.0036	0.00077 J	< 0.0036	0.0062 J	< 0.0036	0.0064 J
	Mercury	mg/l	< 0.00013	0.00016 J	< 0.00013	0.00014 J	0.00015 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0061 J
	Combined Radium - 226/228	pCi/l	0.916 U	0.924 U	1.23 U	1.11 U	1.04 U	1.29 U	1.68	1.37 U	1.17 U
	Selenium	mg/l	< 0.0014	0.0014 J	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

**Notes:**  
 Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III  
 Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV

**Acronyms and Abbreviations:**

mg/L = milligrams per liter  
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 < = Analyte was not detected above the laboratory method detection limit (MDL)  
 J: Estimated concentration above the method detection limit and below the reporting limit.  
 U: 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.

Appendix	Analyte	Units	GWA-2	YGWA-40	YGWA-47
			8/15/2023	8/15/2023	8/15/2023
Appendix III	pH	SU	5.30	5.00	5.69
	Boron	mg/l	< 0.043	0.052 J	< 0.043
	Calcium	mg/l	20.3	5.3	9.6
	Chloride	mg/l	5.6	5.6	3.5
	Fluoride	mg/l	0.065 J	< 0.050	< 0.050
	Sulfate	mg/l	74.2	16.4	47.7
	Total Dissolved Solids	mg/l	230	83.0	186
Appendix IV	Antimony	mg/l	< 0.0012	< 0.0012	< 0.0012
	Arsenic	mg/l	< 0.0037	< 0.0037	< 0.0037
	Barium	mg/l	0.030	0.034	0.032
	Beryllium	mg/l	< 0.00027	< 0.00027	< 0.00027
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	0.031	< 0.00039	0.00072 J
	Lead	mg/l	< 0.00012	< 0.00012	< 0.00012
	Lithium	mg/l	< 0.0036	< 0.0036	0.0040 J
	Mercury	mg/l	< 0.00013	0.00037	0.00014 J
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.916 U	1.18 U	1.04 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018

**Notes:**

Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III  
 Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV

**Acronyms and Abbreviations:**

mg/L = milligrams per liter

pCi/L = picoCuries per liter

< = Analyte was not detected above the laboratory method detection limit (MDL)

J: Estimated concentration above the method detection limit and below the reporting limit.

U: 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.

**Table 7**  
**Background Levels and Groundwater Protection Standards**  
**2023 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates - AP-1**



Constituent	Units	Background <sup>1</sup>	GWPS
<b>August 2023</b>			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.21	2
Beryllium	mg/L	0.0011	0.004
Cadmium	mg/L	0.00063	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035	0.035 <sup>2</sup>
Fluoride	mg/L	0.68	4
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.03	0.04
Mercury	mg/L	0.00064	0.002
Molybdenum	mg/L	0.014	0.1
Selenium	mg/L	0.005	0.05
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 <sup>2</sup>

**Notes:**

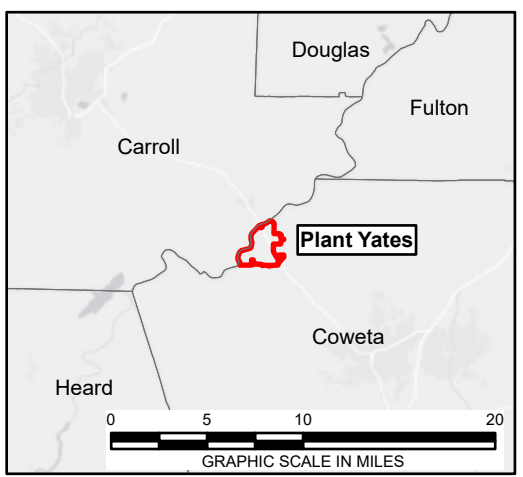
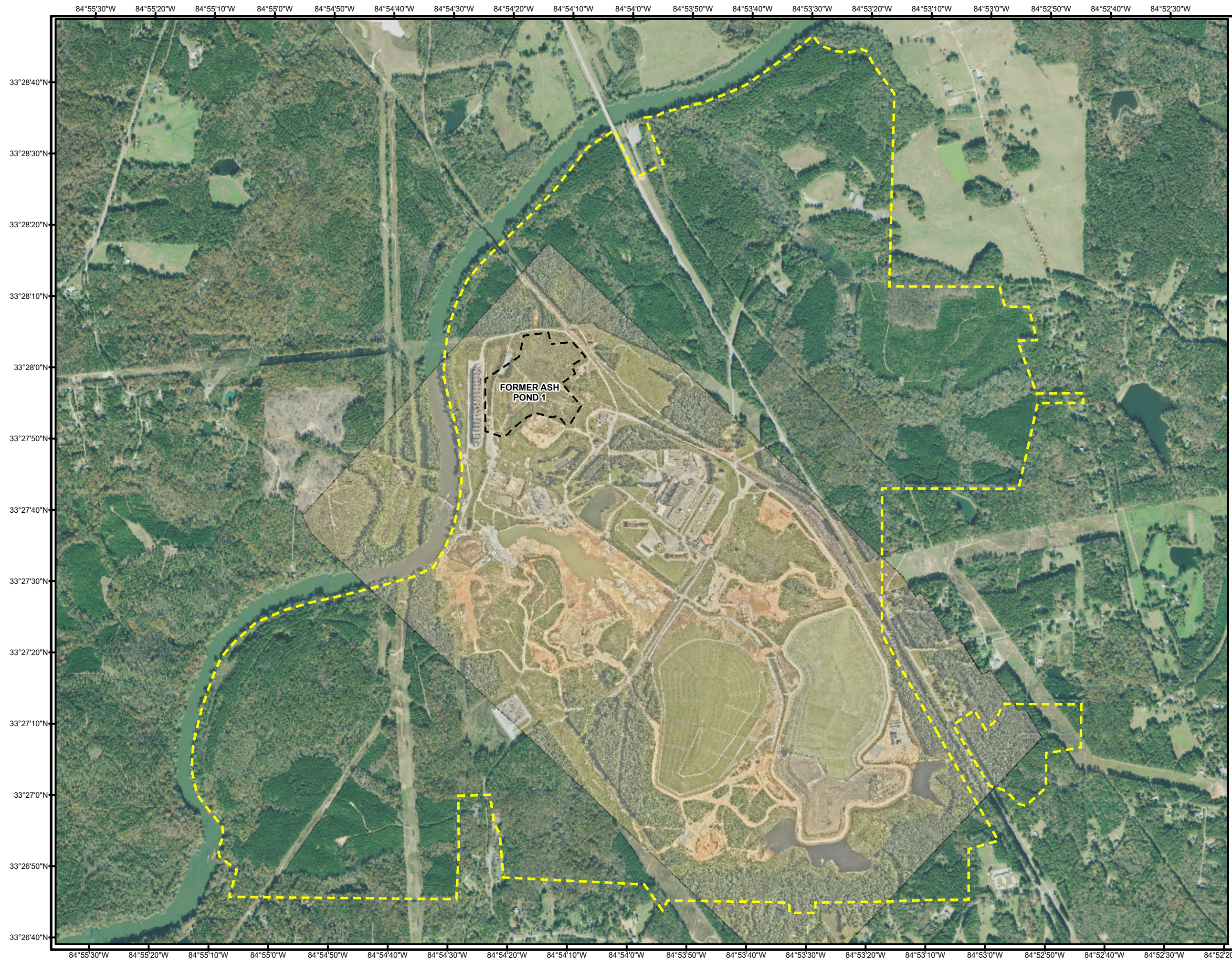
1. Site background: Tolerance limits calculated from pooled upgradient well data.
2. Background concentration is higher than the federally promulgated value (0.006 mg/L for Cobalt). Background is higher than radium MCL (5 mg/L). Therefore, background is the GWPS.

**Acronyms and Abbreviations:**

GWPS = Groundwater Protection Standard per 40 CFR §257.95(h).  
 CFR = Code of Federal Regulations  
 MCL = Maximum Contaminant Level  
 mg/L = milligrams per liter  
 pCi/L = picocuries per liter

# Figures



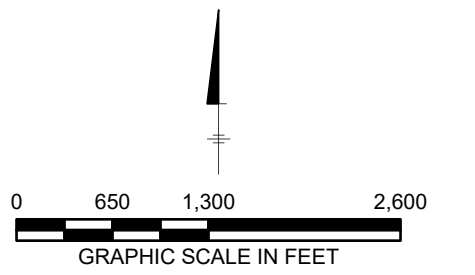


**LEGEND**

--- APPROXIMATE PROPERTY BOUNDARY

--- PERMITTED UNIT BOUNDARY

**NOTE:**  
 AERIAL IMAGE SOURCES: JULY 17, 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE  
 GEORGIA WEST FIPS 1002 FEET

**Georgia Power**  
 PLANT YATES AP-1  
 NEWNAN, GA  
 2023 SEMIANNUAL GROUNDWATER MONITORING  
 AND CORRECTIVE ACTION REPORT

**SITE LOCATION MAP**

**ARCADIS** | **FIGURE 1**

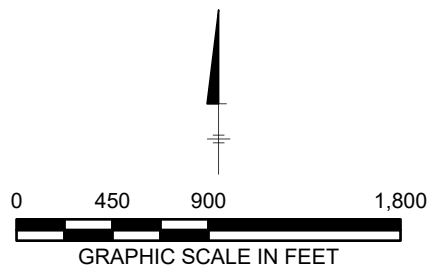




**LEGEND**

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
- TRANSITION ASSESSMENT WELL/PIEZOMETER
- BEDROCK ASSESSMENT WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 2/28/2024

**NOTE:**  
 AERIAL IMAGE SOURCES: JULY 17, 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE  
 GEORGIA WEST FIPS 1002 FEET

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**PLANT YATES CCR REMOVAL AREAS**



84°54'30"W

84°54'20"W

84°54'10"W

33°28'0"N

33°27'50"N

84°54'30"W

84°54'20"W

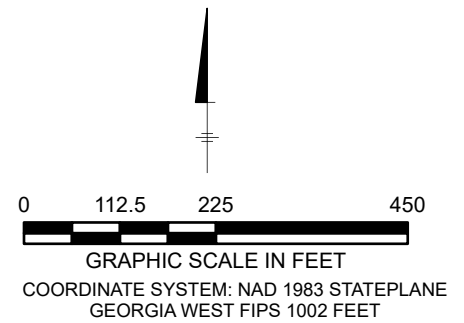
84°54'10"W



**LEGEND**

- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
- TRANSITION ASSESSMENT WELL/PIEZOMETER
- BEDROCK ASSESSMENT WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY

**NOTE:**  
 AERIAL IMAGE SOURCES: JULY 17, 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.



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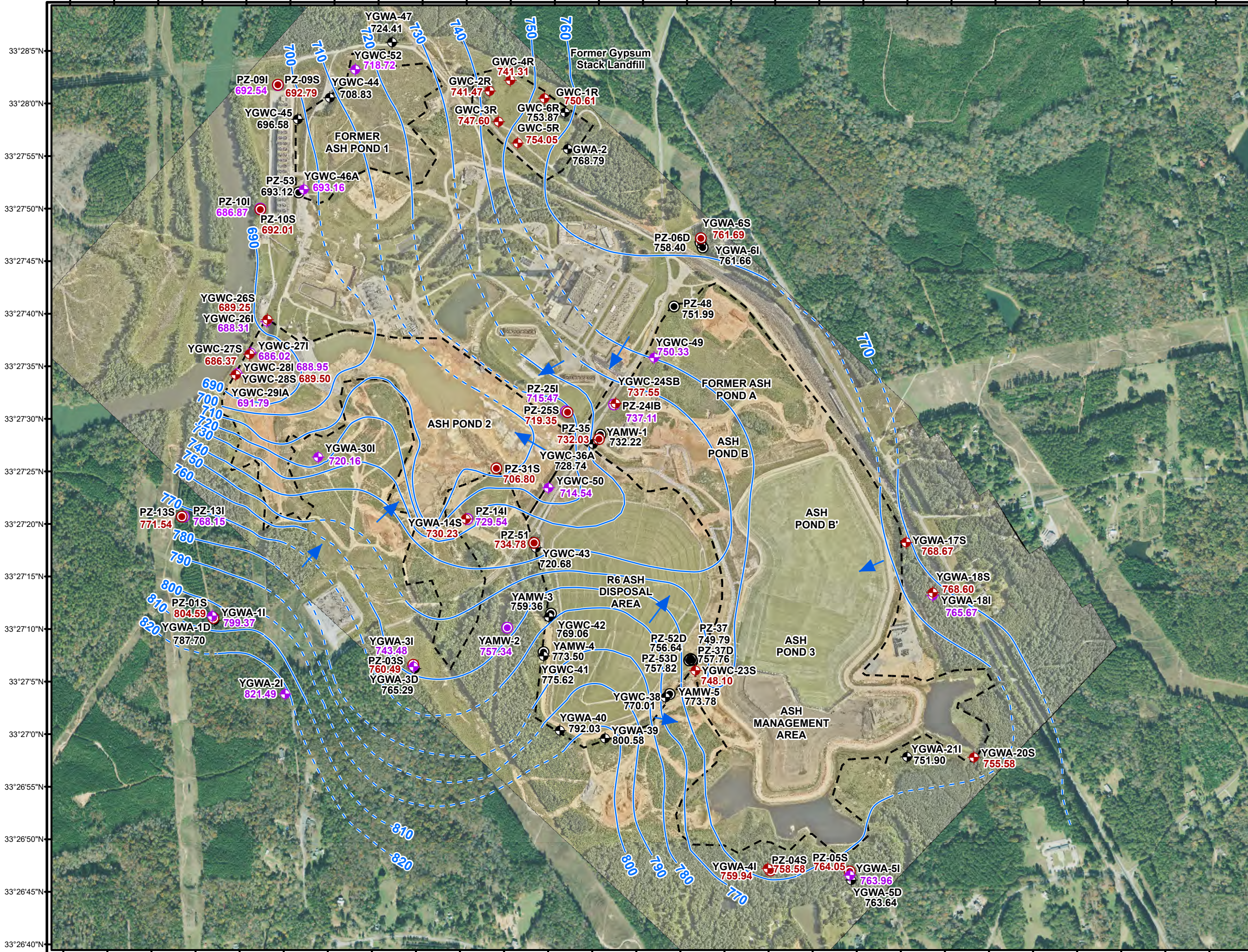
**WELL LOCATION MAP**

ARCADIS

FIGURE  
**3**



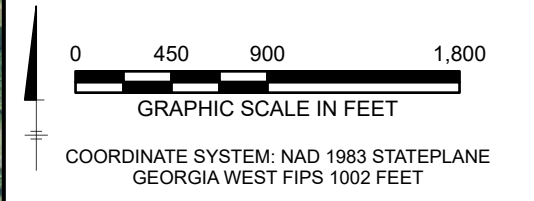
84°54'50"W 84°54'45"W 84°54'40"W 84°54'35"W 84°54'30"W 84°54'25"W 84°54'20"W 84°54'15"W 84°54'10"W 84°54'5"W 84°54'0"W 84°53'55"W 84°53'50"W 84°53'45"W 84°53'40"W 84°53'35"W 84°53'30"W 84°53'25"W 84°53'20"W 84°53'15"W 84°53'10"W 84°53'5"W 84°53'0"W 84°52'55"W 84°52'50"W 84°52'45"W 84°52'40"W



- LEGEND**
- SAPROLITE NETWORK MONITORING WELL LOCATION
  - TRANSITION NETWORK MONITORING WELL LOCATION
  - BEDROCK NETWORK MONITORING WELL LOCATION
  - SAPROLITE NON-NETWORK WELL/PIEZOMETER
  - TRANSITION NON-NETWORK WELL/PIEZOMETER
  - BEDROCK NON-NETWORK WELL/PIEZOMETER
  - PERMITTED UNIT BOUNDARY
  - APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
  - GROUNDWATER FLOW DIRECTION



- NOTES:**
1. SHALLOW GROUNDWATER ELEVATIONS WERE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.
  2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWC-41, YGWC-42 USED FOR CONTOURING. ALL OTHER BEDROCK WELLS NOT USED TO CREATE CONTOURS.
  3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.
  4. AERIAL IMAGE SOURCES: JULY 17, 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.
  5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).
  6. GROUNDWATER ELEVATIONS COLLECTED ON AUGUST 14, 2023.
  7. YGWC-28S AND YGWC-28I WERE INACCESSIBLE DURING THE GAUGING EVENT DUE TO SURROUNDING CONSTRUCTION ACTIVITIES AND RAILINGS FOR WELL ACCESS WELL HAD NOT BEEN CONSTRUCTED.



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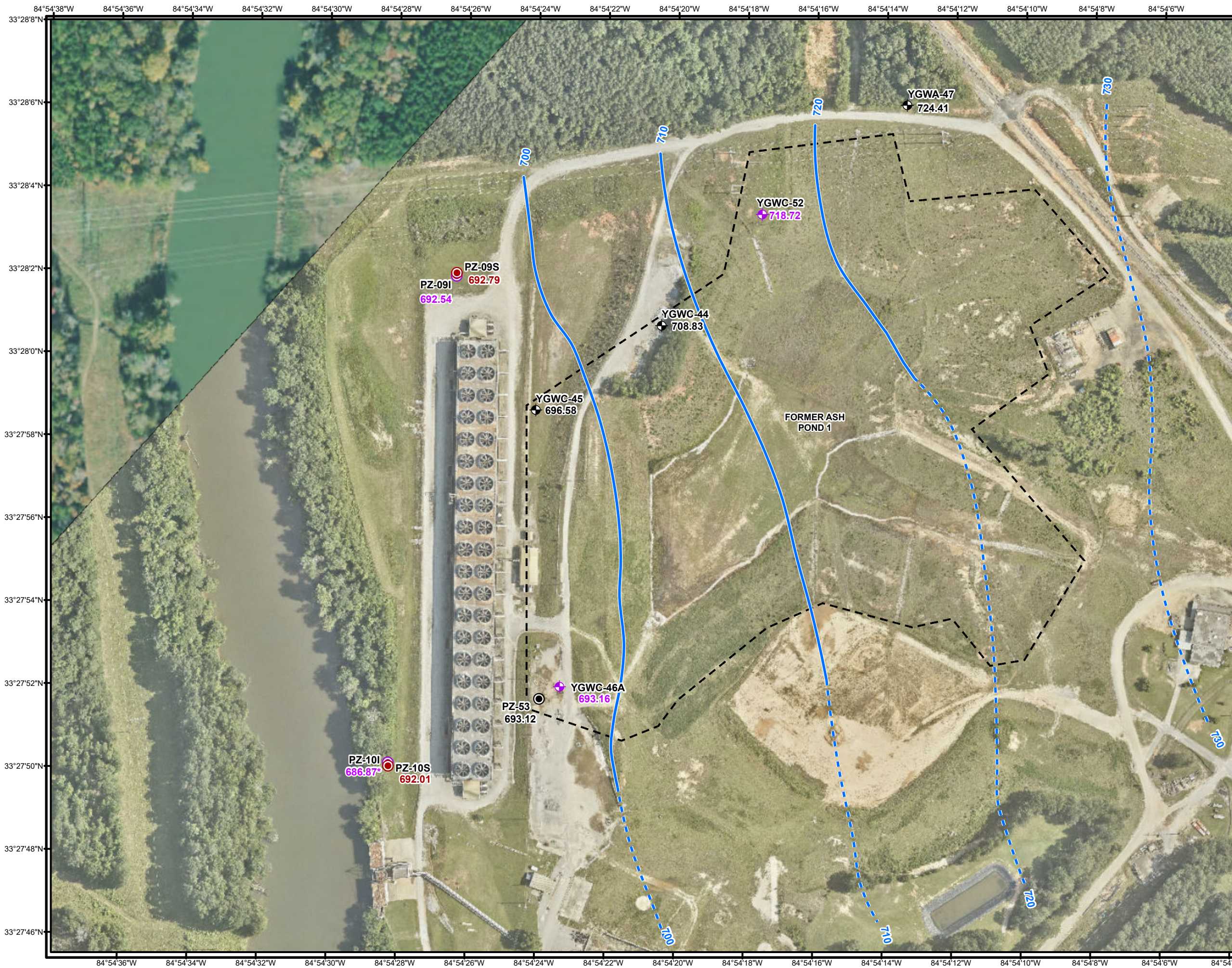
**SITEWIDE GROUNDWATER ELEVATION MAP AUGUST 2023**

FIGURE **4**

**ARCADIS**

84°54'50"W 84°54'45"W 84°54'40"W 84°54'35"W 84°54'30"W 84°54'25"W 84°54'20"W 84°54'15"W 84°54'10"W 84°54'5"W 84°54'0"W 84°53'55"W 84°53'50"W 84°53'45"W 84°53'40"W 84°53'35"W 84°53'30"W 84°53'25"W 84°53'20"W 84°53'15"W 84°53'10"W 84°53'5"W 84°53'0"W 84°52'55"W 84°52'50"W 84°52'45"W 84°52'40"W





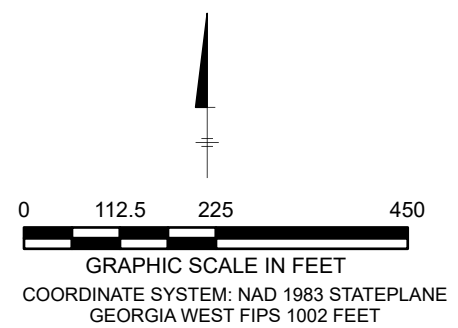
**LEGEND**

- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
- TRANSITION ASSESSMENT WELL/PIEZOMETER
- BEDROCK ASSESSMENT WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED

708.94 GROUNDWATER ELEVATION (FEET)



- NOTES:**
1. \* = GROUNDWATER ELEVATION WAS NOT USED FOR POTENTIOMETRIC CONTOURING.
  2. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).
  3. AERIAL IMAGE SOURCES: JULY 17, 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.



**Georgia Power**  
 PLANT YATES AP-1  
 NEWNAN, GA  
 2023 SEMIANNUAL GROUNDWATER MONITORING  
 AND CORRECTIVE ACTION REPORT  
**GROUNDWATER ELEVATION MAP,  
 AUGUST 2023**



# Appendix A

## Laboratory Analytical and Data Validation Reports

Georgia Power Co. – Plant Yates

# Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92683137 and 92683138

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #51401R

Review Level: Tier II

Project: 30143607.3B

## Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92683137 and 92683138 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWC-52	92683137001 92683138001	Water	8/15/2023		X	X	X
YAT-YGWC-44	92683137002 92683138002	Water	8/15/2023		X	X	X
YAT-YGWC-45	92683137003 92683138003	Water	8/15/2023		X	X	X
YAT-YGWC-46A	92683137004 92683138004	Water	8/15/2023		X	X	X
YAT-AP1-FD-1	92683137005 92683138005	Water	8/15/2032	YAT-YGWC-46A	X	X	X
YAT-AP1-EB-1	92683137006 92683138006	Water	8/15/2023		X	X	X
YAT-AP1-FB-1	92683137007 92683138007	Water	8/15/2023		X	X	X

**Notes:**

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.

## Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

**Note:**

QA = quality assurance

## Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - \* Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.



## Data Review Report

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

## Metals Analyses

### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D/6020B	Water	180 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.

**Note:**

s.u. = standard units

All samples were analyzed within the specified holding times.

### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWC-52	Boron (EB)	Detected sample results <RL and <BAL	"UB" at RL

**Notes:**

EB = Equipment blank

RL = Reporting limit

### 3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

### **3.1 MS/MSD Analysis**

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

The MS/MSD analysis performed using sample YAT-YGWC-52 in association with SW-846 6020B analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW846 6010D and SW-846 7470A analysis.

### **3.2 Laboratory Duplicate Analysis**

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6020B. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D and SW-846 7470A analysis.

## **4. Field Duplicate Analysis**

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-46A / YAT-AP1-FD-1	Calcium	111	109	1.8%
	Barium	0.040	0.039	2.5%
	Boron	2.1	2.0	4.9%
	Cobalt	0.0012 J	0.0011 J	AC
	Lithium	0.012 J	0.011 J	
	Molybdenum	0.0031 J	0.0030 J	

**Note:**

AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-46A and field duplicate sample YAT-AP1-FD-1 were acceptable.

## 5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

## 6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

## Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES)</b> <b>Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)</b> <b>Atomic Absorption – Manual Cold Vapor (CV)</b>					
<b>Tier II Validation</b>					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

**Notes:**

%R     Percent recovery

RPD     Relative percent difference

## General Chemistry Analyses

### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

### 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWC-52	TDS (EB)	Detected sample results >RL and <BAL	"UB" at detected sample result

**Notes:**

FB = Field blank

RL = Reporting limit

### 3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

#### 3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's

concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed using sample YAT-YGWC-45 in association with anions analysis exhibited recoveries within the control limits.

### 3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

The laboratory duplicate analysis performed using sample YAT-YGWC-45 in association with TDS analysis exhibited an RPD within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with anions. The MS/MSD recoveries exhibited acceptable RPDs.

## 4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-46A / YAT-AP1-FD-1	Total Dissolved Solids	945	964	2.0%
	Chloride	32.2	32.4	0.6%
	Fluoride	0.12	0.11	AC
	Sulfate	419	423	1.0%

**Note:**

AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-46A and field duplicate sample YAT-AP1-FD-1 were acceptable.



## **5. Laboratory Control Sample (LCS) Analysis**

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

## **6. System Performance and Overall Assessment**

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

## Data Validation Checklist for General Chemistry

General Chemistry: SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>Miscellaneous Instrumentation</b>					
<b>Tier II Validation</b>					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

**Notes:**

%R     Percent recovery

RPD     Relative percent difference

# Radiological Analyses

## 1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Radium-226 by SW-846 9315	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.
Radium-228 by SW-846 9320	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.

**Note:**

s.u. = standard units

All samples were analyzed within the specified holding times.

## 2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and field/rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field/rinse blanks measure contamination of samples during field operations.

Blank results should be verified to be accurately reported and that tolerance limits ( $\pm 2$  sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

1. Is the blank result less than the uncertainty and less than the MDC?
2. Does the blank have an uncertainty greater than the result (or indistinguishable from background) or does the blank result fall between its uncertainty and its MDC?

If the blank QC results fall outside the appropriate tolerance limits or if the net blank results are not less than the associated uncertainty, the following equation for normalized absolute difference (NAD) should be used in determining the effect of possible blank contamination on the sample results:

$$\text{Normalized absolute difference}_{\text{MethodBlank}} = \frac{| \text{Sample} - \text{Blank} |}{\sqrt{(U_{\text{Sample}})^2 + (U_{\text{Blank}})^2}}$$

Where:

- U<sub>Sample</sub> = uncertainty of the sample
- U<sub>Blank</sub> = uncertainty of the blank
- Sample = concentration of isotope in sample
- Blank = concentration of isotope in blank

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

**Note:**

\* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-226 was detected in the method blanks, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

Radium-228 was detected in the field blank YAT-AP1-FB-1 at an activity greater than the uncertainty and MDC. The NAD was calculated for each sample. The Radium-228 results in samples YAT-YGWC-44, YAT-YGWC-46A, and YAT-AP1-FD-1 were qualified as "J" since the NAD was less than 1.96. No qualifiers were assigned to the Radium-228 results in samples YAT-YGWC-52 and YAT-YGWC-45 since the activities were less than the MDC.

### 3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

#### 3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of <math>\pm 3</math> sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x<sub>0</sub> = measured concentration of the unspiked sample.

c = spike concentration added.

u<sup>2</sup>(x), u<sup>2</sup>(x<sub>0</sub>), u<sup>2</sup>(c) = the squares of the respective standard uncertainties of these values.

MS performance for all matrices is acceptable when the numerical performance indicator calculation yields a value between  $\pm 3$  sigma. Warning limits have been established as  $\pm 2$  sigma.

MS analysis was not performed using a sample from this SDG.

### 3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of  $\pm 3$  sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{\text{Dup}} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

$x_1, x_2$  = two measured activity concentrations.

$u^2(x_1), u^2(x_2)$  = the combined standard uncertainty of each measurement squared.

Duplicate sample performance is acceptable when the numerical performance indicator calculation yields a value between  $\pm 3$  sigma. Warning limits have been established as  $\pm 2$  sigma.

The laboratory duplicate analysis performed on sample location YAT-YGWC-52 in association with SW-846 9315 analysis exhibited acceptable difference between the results.

Laboratory duplicate analysis was not performed using a sample from this SDG in association with SW-846 8320 analysis.

### 4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

The field duplicate sample results are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWC-46A / AP-1-DUP-1	Radium-226	0.640 ± 0.249	0.538 ± 0.222	AC
	Radium-228	1.28 ± 0.522	1.04 ± 0.466	
	Total Radium	1.92 ± 0.771	1.58 ± 0.688	

**Note:**

AC = Acceptable

The differences in the results between the parent sample YGWC-46A and field duplicate sample AP-DUP-1 were acceptable.

## 5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

## 6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

$$Z_{LCS} = \frac{x - c}{\sqrt{u^2(x) + u^2(c)}}$$

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

u<sup>2</sup>(x) = combined standard uncertainty of the result squared.

u<sup>2</sup>(c) = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

## 7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results should be considered non-detect as follows:

- YAT-YGWC-45 – Radium-228
- YAT-AP1-FB-1 – Radium-226 and Total Radium
- YAT-YGWC-52 and YAT-AP1-EB-1 – Radium-226, Radium-228, and total Radium

## 8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

## Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>Miscellaneous Instrumentation</b>					
<b>Tier II Validation</b>					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

**Notes:**

%R     Percent recovery

RPD     Relative percent difference



VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

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DATE: October 2, 2023

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PEER REVIEW: Joseph C. Houser

DATE: October 19, 2023

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## **Chain of Custody / Data Qualifier Summary Table**

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**

**Required Client Information:**

Company: **GA Power**  
 Address: **Allanta, GA**

Email To: **laucoke@southernco.com**  
 Phone: **470.620.6176**     Fax  
 Requested Due Date: **Standard**

**Section B**

**Required Project Information:**

Report To: **SCS Contacts**  
 Copy To: **Arcadis Contacts**  
 Task No: **YAT-CCR-ASSMT-2023S2**  
 Purchase Order #:  
 Project Name: **Plant Yates AP-1**  
 Project Number:

**Section C**

**Invoice Information:**

Attention: **Southern Co.**  
 Company Name:  
 Address:  
 Pace Quote:  
 Pace Project Manager: **Bonnie Vang**  
 Pace Profile #: **10840**

Regulatory Agency	State / Location
	<b>Georgia</b>

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique</small>	MATRIX <small>Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WIP Air AR Other OT Tissue TS</small>	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives									# OF CONTAINERS	Analyses Test Y/N	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)						
						START		END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App IIIIV Metals			Cl, F, SO4	TDS (2540C)	RAD 9315-9320											
						DATE	TIME	DATE	TIME																										
1	YAT-YGWC-52	WT	G		G	8/15/23	1123	--	--	6	2	4							X	X	X	X													92683157
2	YAT-YGWC-44	WT	G		G	8/15/23	1327	--	--	6	2	4							X	X	X	X												001	
3	YAT-YGWC-45	WT	G		G	8/15/23	1505	--	--	6	2	4							X	X	X	X												002	
4	YAT-YGWC-46A	WT	G		G	8/15/23	1607	--	--	6	2	3							X	X	X	X												003	
5	YAT-AP1-FD-1	WT	G		G	8/15/23	--	--	--	6	2	4							X	X	X	X												004	
6	YAT-AP1-EB-1	WT	G		G	8/15/23	1710	--	--	6	2	4							X	X	X	X												005	
7	YAT-AP1-FB-1	WT	G		G	8/15/23	1350	--	--	6	2	4							X	X	X	X												006	
8																																		007	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>Mark Chest</i> / Arcadis	8/16/23	0907	<i>Vyan William</i> / Pace	8/16/23	0907	
App III Metals: Boron 6020B, Ca 6010D	<i>Vyan William</i> / Pace	8/16/23	1115	<i>Charles Hank</i>	8/16/23	1115	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A. Mercury (Hg).							

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	(Arcadis) -	<i>Mark Chest</i>
SIGNATURE of SAMPLER:	(Arcadis) -	<i>Mark Chest</i>
		DATE Signed: 8/16/23

TEMP in C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92683137	YAT-YGWC-52	SW846 6020B	Boron	0.040	mg/L	UB	Blank contamination
		SM2540C	TDS	267	mg/L	UB	Blank contamination
92683138	YAT-YGWC-44	SW846 9320	Radium-228	0.816 +/- 0.426	pCi/L	J	Blank contamination
	YAT-YGWC-46A	SW846 9320	Radium-228	1.28 +/- 0.522	pCi/L	J	Blank contamination
	YAT-AP1-FD-1	SW846 9320	Radium-228	1.04 +/- 0.466	pCi/L	J	Blank contamination

**Abbreviations:**

mg/L = milligrams per liter  
 pCi/L = picoCuries per liter

**Qualifiers:**

J = estimated result  
 UB = not detected due to blank contamination



August 31, 2023

Lauren Hartley  
Southern Company  
241 Ralph McGill Blvd NE  
Bin 10160  
Atlanta, GA 30308

RE: Project: Plant Yates AP-1  
Pace Project No.: 92683137

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory on August 16, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL  
Laura Midkiff, Southern Company  
Alex Simpson, Arcadis  
Becky Steever, Arcadis  
Jessica Ware, Arcadis  
Albert Zumbuhl, Arcadis



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Yates AP-1

Pace Project No.: 92683137

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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### **Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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### SAMPLE SUMMARY

Project: Plant Yates AP-1

Pace Project No.: 92683137

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92683137001	YAT-YGWC-52	Water	08/15/23 11:23	08/16/23 09:07
92683137002	YAT-YGWC-44	Water	08/15/23 13:27	08/16/23 09:07
92683137003	YAT-YGWC-45	Water	08/15/23 15:05	08/16/23 09:07
92683137004	YAT-YGWC-46A	Water	08/15/23 16:07	08/16/23 09:07
92683137005	YAT-AP1-FD-1	Water	08/15/23 00:00	08/16/23 09:07
92683137006	YAT-AP1-EB-1	Water	08/15/23 17:10	08/16/23 09:07
92683137007	YAT-AP1-FB-1	Water	08/15/23 13:50	08/16/23 09:07

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### SAMPLE ANALYTE COUNT

Project: Plant Yates AP-1

Pace Project No.: 92683137

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92683137001	YAT-YGWC-52	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683137002	YAT-YGWC-44	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683137003	YAT-YGWC-45	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683137004	YAT-YGWC-46A	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683137005	YAT-AP1-FD-1	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683137006	YAT-AP1-EB-1	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683137007	YAT-AP1-FB-1	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Plant Yates AP-1

Pace Project No.: 92683137

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92683137001</b>	<b>YAT-YGWC-52</b>					
EPA 6010D	Calcium	34.6	mg/L	1.0	08/28/23 22:40	
EPA 6020B	Barium	0.019	mg/L	0.0050	08/29/23 18:02	
EPA 6020B	Boron	0.014J	mg/L	0.040	08/29/23 18:02	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	08/29/23 18:02	
EPA 6020B	Lithium	0.0040J	mg/L	0.030	08/29/23 18:02	
SM 2540C-2015	Total Dissolved Solids	267	mg/L	25.0	08/21/23 13:17	
EPA 300.0 Rev 2.1 1993	Chloride	3.0	mg/L	1.0	08/19/23 03:16	
EPA 300.0 Rev 2.1 1993	Sulfate	96.5	mg/L	2.0	08/19/23 10:27	
<b>92683137002</b>	<b>YAT-YGWC-44</b>					
EPA 6010D	Calcium	30.0	mg/L	1.0	08/28/23 22:46	
EPA 6020B	Antimony	0.0023J	mg/L	0.0030	08/29/23 18:25	
EPA 6020B	Barium	0.084	mg/L	0.0050	08/29/23 18:25	
EPA 6020B	Boron	0.60	mg/L	0.040	08/29/23 18:25	
EPA 6020B	Cobalt	0.00084J	mg/L	0.0050	08/29/23 18:25	
EPA 6020B	Lithium	0.013J	mg/L	0.030	08/29/23 18:25	
SM 2540C-2015	Total Dissolved Solids	319	mg/L	25.0	08/21/23 13:17	
EPA 300.0 Rev 2.1 1993	Chloride	13.4	mg/L	1.0	08/19/23 03:30	
EPA 300.0 Rev 2.1 1993	Sulfate	113	mg/L	2.0	08/19/23 10:42	
<b>92683137003</b>	<b>YAT-YGWC-45</b>					
EPA 6010D	Calcium	46.3	mg/L	1.0	08/28/23 22:51	
EPA 6020B	Barium	0.049	mg/L	0.0050	08/29/23 18:31	
EPA 6020B	Boron	0.36	mg/L	0.040	08/29/23 18:31	
EPA 6020B	Cobalt	0.00053J	mg/L	0.0050	08/29/23 18:31	
EPA 6020B	Lithium	0.012J	mg/L	0.030	08/29/23 18:31	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	08/29/23 18:31	
SM 2540C-2015	Total Dissolved Solids	404	mg/L	25.0	08/21/23 17:35	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	08/19/23 04:13	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.10	08/19/23 04:13	
EPA 300.0 Rev 2.1 1993	Sulfate	154	mg/L	3.0	08/19/23 10:57	M1
<b>92683137004</b>	<b>YAT-YGWC-46A</b>					
EPA 6010D	Calcium	111	mg/L	1.0	08/28/23 23:06	
EPA 6020B	Barium	0.040	mg/L	0.0050	08/29/23 18:37	
EPA 6020B	Boron	2.1	mg/L	0.040	08/29/23 18:37	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	08/29/23 18:37	
EPA 6020B	Lithium	0.012J	mg/L	0.030	08/29/23 18:37	
EPA 6020B	Molybdenum	0.0031J	mg/L	0.010	08/29/23 18:37	
SM 2540C-2015	Total Dissolved Solids	945	mg/L	25.0	08/21/23 17:35	
EPA 300.0 Rev 2.1 1993	Chloride	32.2	mg/L	1.0	08/19/23 04:57	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	08/19/23 04:57	
EPA 300.0 Rev 2.1 1993	Sulfate	419	mg/L	9.0	08/19/23 11:39	
<b>92683137005</b>	<b>YAT-AP1-FD-1</b>					
EPA 6010D	Calcium	109	mg/L	1.0	08/28/23 23:11	
EPA 6020B	Barium	0.039	mg/L	0.0050	08/29/23 19:01	
EPA 6020B	Boron	2.0	mg/L	0.040	08/29/23 19:01	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	08/29/23 19:01	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Plant Yates AP-1

Pace Project No.: 92683137

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92683137005</b>	<b>YAT-AP1-FD-1</b>					
EPA 6020B	Lithium	0.011J	mg/L	0.030	08/29/23 19:01	
EPA 6020B	Molybdenum	0.0030J	mg/L	0.010	08/29/23 19:01	
SM 2540C-2015	Total Dissolved Solids	964	mg/L	25.0	08/21/23 17:35	
EPA 300.0 Rev 2.1 1993	Chloride	32.4	mg/L	1.0	08/19/23 05:11	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	08/19/23 05:11	
EPA 300.0 Rev 2.1 1993	Sulfate	423	mg/L	9.0	08/19/23 11:54	
<b>92683137006</b>	<b>YAT-AP1-EB-1</b>					
EPA 6020B	Boron	0.016J	mg/L	0.040	08/29/23 19:07	
<b>92683137007</b>	<b>YAT-AP1-FB-1</b>					
SM 2540C-2015	Total Dissolved Solids	57.0	mg/L	25.0	08/21/23 17:36	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant Yates AP-1

Pace Project No.: 92683137

Sample: YAT-YGWC-52 Lab ID: 92683137001 Collected: 08/15/23 11:23 Received: 08/16/23 09:07 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	34.6	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:40	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/29/23 11:36	08/29/23 18:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/29/23 11:36	08/29/23 18:02	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00067	1	08/29/23 11:36	08/29/23 18:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/29/23 11:36	08/29/23 18:02	7440-41-7	
Boron	0.014J	mg/L	0.040	0.0086	1	08/29/23 11:36	08/29/23 18:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/29/23 11:36	08/29/23 18:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/29/23 11:36	08/29/23 18:02	7440-47-3	
Cobalt	0.0017J	mg/L	0.0050	0.00039	1	08/29/23 11:36	08/29/23 18:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/29/23 11:36	08/29/23 18:02	7439-92-1	
Lithium	0.0040J	mg/L	0.030	0.00073	1	08/29/23 11:36	08/29/23 18:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/29/23 11:36	08/29/23 18:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/29/23 11:36	08/29/23 18:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/29/23 11:36	08/29/23 18:02	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/25/23 10:45	08/25/23 15:11	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	267	mg/L	25.0	25.0	1		08/21/23 13:17		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.0	mg/L	1.0	0.60	1		08/19/23 03:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 03:16	16984-48-8	
Sulfate	96.5	mg/L	2.0	1.0	2		08/19/23 10:27	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates AP-1

Pace Project No.: 92683137

Sample: YAT-YGWC-44		Lab ID: 92683137002		Collected: 08/15/23 13:27		Received: 08/16/23 09:07		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	30.0	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:46	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0023J	mg/L	0.0030	0.0012	1	08/29/23 11:36	08/29/23 18:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/29/23 11:36	08/29/23 18:25	7440-38-2	
Barium	0.084	mg/L	0.0050	0.00067	1	08/29/23 11:36	08/29/23 18:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/29/23 11:36	08/29/23 18:25	7440-41-7	
Boron	0.60	mg/L	0.040	0.0086	1	08/29/23 11:36	08/29/23 18:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/29/23 11:36	08/29/23 18:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/29/23 11:36	08/29/23 18:25	7440-47-3	
Cobalt	0.00084J	mg/L	0.0050	0.00039	1	08/29/23 11:36	08/29/23 18:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/29/23 11:36	08/29/23 18:25	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00073	1	08/29/23 11:36	08/29/23 18:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/29/23 11:36	08/29/23 18:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/29/23 11:36	08/29/23 18:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/29/23 11:36	08/29/23 18:25	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/25/23 10:45	08/25/23 15:13	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	319	mg/L	25.0	25.0	1		08/21/23 13:17		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	13.4	mg/L	1.0	0.60	1		08/19/23 03:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 03:30	16984-48-8	
Sulfate	113	mg/L	2.0	1.0	2		08/19/23 10:42	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates AP-1

Pace Project No.: 92683137

**Sample: YAT-YGWC-45**      **Lab ID: 92683137003**      Collected: 08/15/23 15:05      Received: 08/16/23 09:07      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>46.3</b>	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:51	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/29/23 11:36	08/29/23 18:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/29/23 11:36	08/29/23 18:31	7440-38-2	
Barium	<b>0.049</b>	mg/L	0.0050	0.00067	1	08/29/23 11:36	08/29/23 18:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/29/23 11:36	08/29/23 18:31	7440-41-7	
Boron	<b>0.36</b>	mg/L	0.040	0.0086	1	08/29/23 11:36	08/29/23 18:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/29/23 11:36	08/29/23 18:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/29/23 11:36	08/29/23 18:31	7440-47-3	
Cobalt	<b>0.00053J</b>	mg/L	0.0050	0.00039	1	08/29/23 11:36	08/29/23 18:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/29/23 11:36	08/29/23 18:31	7439-92-1	
Lithium	<b>0.012J</b>	mg/L	0.030	0.00073	1	08/29/23 11:36	08/29/23 18:31	7439-93-2	
Molybdenum	<b>0.0011J</b>	mg/L	0.010	0.00074	1	08/29/23 11:36	08/29/23 18:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/29/23 11:36	08/29/23 18:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/29/23 11:36	08/29/23 18:31	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/25/23 10:45	08/25/23 15:16	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>404</b>	mg/L	25.0	25.0	1		08/21/23 17:35		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>5.6</b>	mg/L	1.0	0.60	1		08/19/23 04:13	16887-00-6	
Fluoride	<b>0.070J</b>	mg/L	0.10	0.050	1		08/19/23 04:13	16984-48-8	
Sulfate	<b>154</b>	mg/L	3.0	1.5	3		08/19/23 10:57	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: Plant Yates AP-1

Pace Project No.: 92683137

**Sample: YAT-YGWC-46A**      **Lab ID: 92683137004**      Collected: 08/15/23 16:07      Received: 08/16/23 09:07      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	111	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 23:06	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/29/23 11:36	08/29/23 18:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/29/23 11:36	08/29/23 18:37	7440-38-2	
Barium	0.040	mg/L	0.0050	0.00067	1	08/29/23 11:36	08/29/23 18:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/29/23 11:36	08/29/23 18:37	7440-41-7	
Boron	2.1	mg/L	0.040	0.0086	1	08/29/23 11:36	08/29/23 18:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/29/23 11:36	08/29/23 18:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/29/23 11:36	08/29/23 18:37	7440-47-3	
Cobalt	0.0012J	mg/L	0.0050	0.00039	1	08/29/23 11:36	08/29/23 18:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/29/23 11:36	08/29/23 18:37	7439-92-1	
Lithium	0.012J	mg/L	0.030	0.00073	1	08/29/23 11:36	08/29/23 18:37	7439-93-2	
Molybdenum	0.0031J	mg/L	0.010	0.00074	1	08/29/23 11:36	08/29/23 18:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/29/23 11:36	08/29/23 18:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/29/23 11:36	08/29/23 18:37	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/25/23 10:45	08/25/23 15:19	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	945	mg/L	25.0	25.0	1		08/21/23 17:35		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	32.2	mg/L	1.0	0.60	1		08/19/23 04:57	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		08/19/23 04:57	16984-48-8	
Sulfate	419	mg/L	9.0	4.5	9		08/19/23 11:39	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates AP-1

Pace Project No.: 92683137

Sample: YAT-AP1-FD-1 Lab ID: 92683137005 Collected: 08/15/23 00:00 Received: 08/16/23 09:07 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	109	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 23:11	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/29/23 11:36	08/29/23 19:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/29/23 11:36	08/29/23 19:01	7440-38-2	
Barium	0.039	mg/L	0.0050	0.00067	1	08/29/23 11:36	08/29/23 19:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/29/23 11:36	08/29/23 19:01	7440-41-7	
Boron	2.0	mg/L	0.040	0.0086	1	08/29/23 11:36	08/29/23 19:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/29/23 11:36	08/29/23 19:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/29/23 11:36	08/29/23 19:01	7440-47-3	
Cobalt	0.0011J	mg/L	0.0050	0.00039	1	08/29/23 11:36	08/29/23 19:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/29/23 11:36	08/29/23 19:01	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00073	1	08/29/23 11:36	08/29/23 19:01	7439-93-2	
Molybdenum	0.0030J	mg/L	0.010	0.00074	1	08/29/23 11:36	08/29/23 19:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/29/23 11:36	08/29/23 19:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/29/23 11:36	08/29/23 19:01	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/25/23 10:45	08/25/23 15:21	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	964	mg/L	25.0	25.0	1		08/21/23 17:35		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	32.4	mg/L	1.0	0.60	1		08/19/23 05:11	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		08/19/23 05:11	16984-48-8	
Sulfate	423	mg/L	9.0	4.5	9		08/19/23 11:54	14808-79-8	

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**ANALYTICAL RESULTS**

Project: Plant Yates AP-1

Pace Project No.: 92683137

**Sample: YAT-AP1-EB-1**      **Lab ID: 92683137006**      Collected: 08/15/23 17:10      Received: 08/16/23 09:07      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 23:16	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/29/23 11:36	08/29/23 19:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/29/23 11:36	08/29/23 19:07	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/29/23 11:36	08/29/23 19:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/29/23 11:36	08/29/23 19:07	7440-41-7	
Boron	<b>0.016J</b>	mg/L	0.040	0.0086	1	08/29/23 11:36	08/29/23 19:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/29/23 11:36	08/29/23 19:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/29/23 11:36	08/29/23 19:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/29/23 11:36	08/29/23 19:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/29/23 11:36	08/29/23 19:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/29/23 11:36	08/29/23 19:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/29/23 11:36	08/29/23 19:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/29/23 11:36	08/29/23 19:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/29/23 11:36	08/29/23 19:07	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/25/23 10:45	08/25/23 15:24	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/21/23 17:35		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		08/19/23 05:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 05:25	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/19/23 05:25	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates AP-1

Pace Project No.: 92683137

**Sample: YAT-AP1-FB-1**      **Lab ID: 92683137007**      Collected: 08/15/23 13:50      Received: 08/16/23 09:07      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 23:22	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/24/23 10:16	08/28/23 19:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 10:16	08/28/23 19:09	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/24/23 10:16	08/28/23 19:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/24/23 10:16	08/28/23 19:09	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/24/23 10:16	08/28/23 19:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 10:16	08/28/23 19:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 10:16	08/28/23 19:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 10:16	08/28/23 19:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 10:16	08/28/23 19:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/24/23 10:16	08/28/23 19:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 10:16	08/28/23 19:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/24/23 10:16	08/28/23 19:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 10:16	08/28/23 19:09	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/25/23 10:45	08/25/23 15:26	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>57.0</b>	mg/L	25.0	25.0	1		08/21/23 17:36		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		08/19/23 05:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 05:40	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/19/23 05:40	14808-79-8	

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**QUALITY CONTROL DATA**

Project: Plant Yates AP-1

Pace Project No.: 92683137

QC Batch:	795958	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92683137001, 92683137002, 92683137003, 92683137004, 92683137005, 92683137006, 92683137007

METHOD BLANK: 4124394 Matrix: Water

Associated Lab Samples: 92683137001, 92683137002, 92683137003, 92683137004, 92683137005, 92683137006, 92683137007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/28/23 21:02	

LABORATORY CONTROL SAMPLE: 4124395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4124396 4124397

Parameter	Units	92683124005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	7.8	1	1	8.9	9.1	106	127	75-125	2	20	M1

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**QUALITY CONTROL DATA**

Project: Plant Yates AP-1

Pace Project No.: 92683137

QC Batch: 795635

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92683137007

METHOD BLANK: 4122455

Matrix: Water

Associated Lab Samples: 92683137007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	08/28/23 18:57	
Arsenic	mg/L	ND	0.0050	0.0037	08/28/23 18:57	
Barium	mg/L	ND	0.0050	0.00067	08/28/23 18:57	
Beryllium	mg/L	ND	0.00050	0.000054	08/28/23 18:57	
Boron	mg/L	ND	0.040	0.0086	08/28/23 18:57	
Cadmium	mg/L	ND	0.00050	0.00011	08/28/23 18:57	
Chromium	mg/L	ND	0.0050	0.0011	08/28/23 18:57	
Cobalt	mg/L	ND	0.0050	0.00039	08/28/23 18:57	
Lead	mg/L	ND	0.0010	0.00012	08/28/23 18:57	
Lithium	mg/L	ND	0.030	0.00073	08/28/23 18:57	
Molybdenum	mg/L	ND	0.010	0.00074	08/28/23 18:57	
Selenium	mg/L	ND	0.0050	0.0014	08/28/23 18:57	
Thallium	mg/L	ND	0.0010	0.00018	08/28/23 18:57	

LABORATORY CONTROL SAMPLE: 4122456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.10	103	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4123340 4123341

Parameter	Units	92683383001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	110	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	

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**QUALITY CONTROL DATA**

Project: Plant Yates AP-1

Pace Project No.: 92683137

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4123340												4123341	
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92683383001 Result	Spike Conc.	Spike Conc.	MS Result								
Barium	mg/L	0.21	0.1	0.1	0.30	0.30	90	91	75-125	0	20		
Beryllium	mg/L	ND	0.1	0.1	0.093	0.093	93	93	75-125	0	20		
Boron	mg/L	2.1	1	1	3.0	2.9	84	78	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20		
Cobalt	mg/L	0.00080J	0.1	0.1	0.096	0.095	96	94	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20		
Lithium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	1	20		
Molybdenum	mg/L	0.00077J	0.1	0.1	0.097	0.10	96	99	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.092	0.094	92	94	75-125	2	20		

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**QUALITY CONTROL DATA**

Project: Plant Yates AP-1

Pace Project No.: 92683137

QC Batch:	796162	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92683137001, 92683137002, 92683137003, 92683137004, 92683137005, 92683137006

METHOD BLANK: 4125426 Matrix: Water

Associated Lab Samples: 92683137001, 92683137002, 92683137003, 92683137004, 92683137005, 92683137006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	08/29/23 17:50	
Arsenic	mg/L	ND	0.0050	0.0037	08/29/23 17:50	
Barium	mg/L	ND	0.0050	0.00067	08/29/23 17:50	
Beryllium	mg/L	ND	0.00050	0.000054	08/29/23 17:50	
Boron	mg/L	ND	0.040	0.0086	08/29/23 17:50	
Cadmium	mg/L	ND	0.00050	0.00011	08/29/23 17:50	
Chromium	mg/L	ND	0.0050	0.0011	08/29/23 17:50	
Cobalt	mg/L	ND	0.0050	0.00039	08/29/23 17:50	
Lead	mg/L	ND	0.0010	0.00012	08/29/23 17:50	
Lithium	mg/L	ND	0.030	0.00073	08/29/23 17:50	
Molybdenum	mg/L	ND	0.010	0.00074	08/29/23 17:50	
Selenium	mg/L	ND	0.0050	0.0014	08/29/23 17:50	
Thallium	mg/L	ND	0.0010	0.00018	08/29/23 17:50	

LABORATORY CONTROL SAMPLE: 4125427

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4125428 4125429

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92683137001	Result	Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	106	75-125	3	20		
Arsenic	mg/L	ND	0.1	0.1	0.11	0.099	105	97	75-125	8	20		

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**QUALITY CONTROL DATA**

Project: Plant Yates AP-1

Pace Project No.: 92683137

Parameter	Units	4125428		4125429		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92683137001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.019	0.1	0.1	0.13	0.12	108	105	75-125	2	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.096	103	96	75-125	7	20		
Boron	mg/L	0.014J	1	1	1.1	0.98	105	97	75-125	8	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.099	103	99	75-125	4	20		
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	106	99	75-125	7	20		
Cobalt	mg/L	0.0017J	0.1	0.1	0.11	0.10	107	99	75-125	8	20		
Lead	mg/L	ND	0.1	0.1	0.098	0.093	98	93	75-125	5	20		
Lithium	mg/L	0.0040J	0.1	0.1	0.11	0.099	104	95	75-125	9	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	107	103	75-125	4	20		
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	105	100	75-125	5	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.090	96	90	75-125	6	20		

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**QUALITY CONTROL DATA**

Project: Plant Yates AP-1

Pace Project No.: 92683137

QC Batch:	795928	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92683137001, 92683137002, 92683137003, 92683137004, 92683137005, 92683137006, 92683137007		

METHOD BLANK: 4124279 Matrix: Water  
 Associated Lab Samples: 92683137001, 92683137002, 92683137003, 92683137004, 92683137005, 92683137006, 92683137007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/25/23 14:18	

LABORATORY CONTROL SAMPLE: 4124280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4124726 4124727

Parameter	Units	92683383001		4124727		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0023	0.0023	92	91	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Yates AP-1

Pace Project No.: 92683137

QC Batch: 794901

Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92683137001, 92683137002

METHOD BLANK: 4118686

Matrix: Water

Associated Lab Samples: 92683137001, 92683137002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/21/23 13:08	

LABORATORY CONTROL SAMPLE: 4118687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	402	100	80-120	

SAMPLE DUPLICATE: 4118688

Parameter	Units	92683065001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	669	640	4	10	

SAMPLE DUPLICATE: 4118689

Parameter	Units	92683124010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	69.0	68.0	1	10	

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**QUALITY CONTROL DATA**

Project: Plant Yates AP-1

Pace Project No.: 92683137

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QC Batch: 794903	Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92683137003, 92683137004, 92683137005, 92683137006, 92683137007

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METHOD BLANK: 4118696 Matrix: Water  
 Associated Lab Samples: 92683137003, 92683137004, 92683137005, 92683137006, 92683137007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/21/23 17:34	

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LABORATORY CONTROL SAMPLE: 4118697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	381	95	80-120	

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SAMPLE DUPLICATE: 4118698

Parameter	Units	92683137003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	404	434	7	10	

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SAMPLE DUPLICATE: 4118699

Parameter	Units	92683141011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	267	261	2	10	

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**QUALITY CONTROL DATA**

Project: Plant Yates AP-1

Pace Project No.: 92683137

QC Batch:	794488	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92683137001, 92683137002, 92683137003, 92683137004, 92683137005, 92683137006, 92683137007

METHOD BLANK: 4116660 Matrix: Water  
 Associated Lab Samples: 92683137001, 92683137002, 92683137003, 92683137004, 92683137005, 92683137006, 92683137007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/18/23 23:54	
Fluoride	mg/L	ND	0.10	0.050	08/18/23 23:54	
Sulfate	mg/L	ND	1.0	0.50	08/18/23 23:54	

LABORATORY CONTROL SAMPLE: 4116661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.7	99	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116662 4116663

Parameter	Units	92683124010		MS		MSD		% Rec	% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result								
Chloride	mg/L	4.1	50	50	51.8	53.2	96	98	90-110	3	10				
Fluoride	mg/L	ND	2.5	2.5	2.3	2.4	93	96	90-110	4	10				
Sulfate	mg/L	6.0	50	50	52.3	53.7	93	95	90-110	2	10				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116664 4116665

Parameter	Units	92683137003		MS		MSD		% Rec	% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result								
Chloride	mg/L	5.6	50	50	53.8	54.5	96	98	90-110	1	10				
Fluoride	mg/L	0.070J	2.5	2.5	2.3	2.4	91	93	90-110	2	10				
Sulfate	mg/L	154	50	50	194	194	79	79	90-110	0	10 M1				

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## QUALIFIERS

Project: Plant Yates AP-1

Pace Project No.: 92683137

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AP-1

Pace Project No.: 92683137

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683137001	YAT-YGWC-52	EPA 3010A	795958	EPA 6010D	796217
92683137002	YAT-YGWC-44	EPA 3010A	795958	EPA 6010D	796217
92683137003	YAT-YGWC-45	EPA 3010A	795958	EPA 6010D	796217
92683137004	YAT-YGWC-46A	EPA 3010A	795958	EPA 6010D	796217
92683137005	YAT-AP1-FD-1	EPA 3010A	795958	EPA 6010D	796217
92683137006	YAT-AP1-EB-1	EPA 3010A	795958	EPA 6010D	796217
92683137007	YAT-AP1-FB-1	EPA 3010A	795958	EPA 6010D	796217
92683137001	YAT-YGWC-52	EPA 3005A	796162	EPA 6020B	796690
92683137002	YAT-YGWC-44	EPA 3005A	796162	EPA 6020B	796690
92683137003	YAT-YGWC-45	EPA 3005A	796162	EPA 6020B	796690
92683137004	YAT-YGWC-46A	EPA 3005A	796162	EPA 6020B	796690
92683137005	YAT-AP1-FD-1	EPA 3005A	796162	EPA 6020B	796690
92683137006	YAT-AP1-EB-1	EPA 3005A	796162	EPA 6020B	796690
92683137007	YAT-AP1-FB-1	EPA 3005A	795635	EPA 6020B	795763
92683137001	YAT-YGWC-52	EPA 7470A	795928	EPA 7470A	796015
92683137002	YAT-YGWC-44	EPA 7470A	795928	EPA 7470A	796015
92683137003	YAT-YGWC-45	EPA 7470A	795928	EPA 7470A	796015
92683137004	YAT-YGWC-46A	EPA 7470A	795928	EPA 7470A	796015
92683137005	YAT-AP1-FD-1	EPA 7470A	795928	EPA 7470A	796015
92683137006	YAT-AP1-EB-1	EPA 7470A	795928	EPA 7470A	796015
92683137007	YAT-AP1-FB-1	EPA 7470A	795928	EPA 7470A	796015
92683137001	YAT-YGWC-52	SM 2540C-2015	794901		
92683137002	YAT-YGWC-44	SM 2540C-2015	794901		
92683137003	YAT-YGWC-45	SM 2540C-2015	794903		
92683137004	YAT-YGWC-46A	SM 2540C-2015	794903		
92683137005	YAT-AP1-FD-1	SM 2540C-2015	794903		
92683137006	YAT-AP1-EB-1	SM 2540C-2015	794903		
92683137007	YAT-AP1-FB-1	SM 2540C-2015	794903		
92683137001	YAT-YGWC-52	EPA 300.0 Rev 2.1 1993	794488		
92683137002	YAT-YGWC-44	EPA 300.0 Rev 2.1 1993	794488		
92683137003	YAT-YGWC-45	EPA 300.0 Rev 2.1 1993	794488		
92683137004	YAT-YGWC-46A	EPA 300.0 Rev 2.1 1993	794488		
92683137005	YAT-AP1-FD-1	EPA 300.0 Rev 2.1 1993	794488		
92683137006	YAT-AP1-EB-1	EPA 300.0 Rev 2.1 1993	794488		
92683137007	YAT-AP1-FB-1	EPA 300.0 Rev 2.1 1993	794488		

REPORT OF LABORATORY ANALYSIS

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DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

*GA Power*

Project #:

WO#: 92683137



Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *8/14/23*  
*COB*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Thermometer:

Yes  No  N/A

IR Gun ID:

*230*

Type of Ice:

Wet  Blue  None

Cooler Temp:

*2.3*

Correction Factor: Add/Subtract (°C)

*0.0*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

*2.3*

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	<i>W</i>	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_

Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_

Date: \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHG

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

**WO# : 92683137**

PM: BV

Due Date: 08/30/23

CLIENT: 92-GP-Yates

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
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11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:

Company: GA Power  
 Address: Atlanta, GA  
 Email To: jlucocker@southernco.com  
 Phone: 470.620.6176  
 Requested Due Date: *See below*

**Section B**  
Required Project Information:

Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Task No: VAT-CCR-ASSMT-202392  
 Purchase Order #: Plant Yates AP-1  
 Project Name: Plant Yates AP-1  
 Project Number:

**Section C**  
Invoice Information:

Attention: Southern Co.  
 Company Name  
 Address:  
 Pace Quarter:  
 Pace Project Manager: Bonnie Yang  
 Pace Profile #: 10840

Regulatory Agency:  
 State / Location: Georgia

ITEM #	SAMPLE ID <small>One Character per box: (A-Z, 0-9 / , -) Sample IDs must be unique</small>	MATRIX <small>Dinking Water Waste Water WV Surface Product IC Type Air Other Tissue</small>	CODE <small>LW WT WW P SL UR VDP A OT TS</small>	DATE	TIME	DATE	TIME	SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	COLLECTED		PRESERVED		ANALYSES TEST	Y/N	Regulatory Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS	
										START	END	UNPRESERVED	OTHER						
1	YAT-YGWC-52			8/15/23	11:23			WT G		6	2	4							001
2	YAT-YGWC-44			8/15/23	3:37			WT G		6	2	4							002
3	YAT-YGWC-45			8/15/23	15:05			WT G		6	2	4							003
4	YAT-YGWC-46A			8/15/23	16:07			WT G		6	2	3							004
5	YAT-AP1-FD-1			8/15/23				WT G		6	2	4							005
6	YAT-AP1-EB-1			8/15/23	17:10			WT G		6	2	4							006
7	YAT-AP1-FB-1			8/15/23	13:50			WT G		6	2	4							007
8																			
9																			
10																			
11																			
12																			

RELINQUISHED BY / AFFILIATION				DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME	SAMPLER NAME AND SIGNATURE			
<i>McCallister</i>				8/16/23	09:07	<i>Kyle William Pace</i>				8/16/23	11:15	<i>Mark Chest</i>			
PRINT Name of SAMPLER:				SIGNATURE of SAMPLER:				DATE Signed:				TEMP in C			
				<i>Mark Chest</i>				8/16/23							
Received on Ice (Y/N)				Custody Sealed Cooler (Y/N)				Samples Intact (Y/N)							



September 12, 2023

Lauren Hartley  
Southern Company  
241 Ralph McGill Blvd NE  
Bin 10160  
Atlanta, GA 30308

RE: Project: Plant Yates AP-1- RADs  
Pace Project No.: 92683138

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory on August 16, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL  
Laura Midkiff, Southern Company  
Alex Simpson, Arcadis  
Becky Steever, Arcadis  
Jessica Ware, Arcadis  
Albert Zumbuhl, Arcadis



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

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### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92683138001	YAT-YGWC-52	Water	08/15/23 11:23	08/16/23 09:07
92683138002	YAT-YGWC-44	Water	08/15/23 13:27	08/16/23 09:07
92683138003	YAT-YGWC-45	Water	08/15/23 15:05	08/16/23 09:07
92683138004	YAT-YGWC-46A	Water	08/15/23 16:07	08/16/23 09:07
92683138005	YAT-AP1-FD-1	Water	08/15/23 00:00	08/16/23 09:07
92683138006	YAT-AP1-EB-1	Water	08/15/23 17:10	08/16/23 09:07
92683138007	YAT-AP1-FB-1	Water	08/15/23 13:50	08/16/23 09:07

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92683138001	YAT-YGWC-52	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683138002	YAT-YGWC-44	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683138003	YAT-YGWC-45	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683138004	YAT-YGWC-46A	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683138005	YAT-AP1-FD-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683138006	YAT-AP1-EB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683138007	YAT-AP1-FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92683138001</b>	<b>YAT-YGWC-52</b>					
EPA 9315	Radium-226	0.119U ± 0.138 (0.288) C:94% T:NA	pCi/L		09/08/23 11:32	
EPA 9320	Radium-228	0.200U ± 0.359 (0.785) C:81% T:88%	pCi/L		09/06/23 12:40	
Total Radium Calculation	Total Radium	0.319U ± 0.497 (1.07)	pCi/L		09/08/23 17:23	
<b>92683138002</b>	<b>YAT-YGWC-44</b>					
EPA 9315	Radium-226	0.337 ± 0.177 (0.250) C:90% T:NA	pCi/L		09/08/23 11:34	
EPA 9320	Radium-228	0.816 ± 0.426 (0.764) C:81% T:87%	pCi/L		09/06/23 12:41	
Total Radium Calculation	Total Radium	1.15 ± 0.603 (1.01)	pCi/L		09/08/23 17:29	
<b>92683138003</b>	<b>YAT-YGWC-45</b>					
EPA 9315	Radium-226	0.677 ± 0.252 (0.280) C:83% T:NA	pCi/L		09/08/23 11:34	
EPA 9320	Radium-228	0.659U ± 0.395 (0.734) C:77% T:88%	pCi/L		09/06/23 12:41	
Total Radium Calculation	Total Radium	1.34 ± 0.647 (1.01)	pCi/L		09/08/23 17:29	
<b>92683138004</b>	<b>YAT-YGWC-46A</b>					
EPA 9315	Radium-226	0.640 ± 0.249 (0.290) C:82% T:NA	pCi/L		09/08/23 11:34	
EPA 9320	Radium-228	1.28 ± 0.522 (0.844) C:75% T:88%	pCi/L		09/06/23 12:41	
Total Radium Calculation	Total Radium	1.92 ± 0.771 (1.13)	pCi/L		09/08/23 17:29	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92683138005</b>	<b>YAT-AP1-FD-1</b>					
EPA 9315	Radium-226	0.538 ± 0.222 (0.245)	pCi/L		09/08/23 11:35	
EPA 9320	Radium-228	C:82% T:NA 1.04 ± 0.466 (0.799)	pCi/L		09/06/23 12:41	
Total Radium Calculation	Total Radium	C:82% T:88% 1.58 ± 0.688 (1.04)	pCi/L		09/08/23 17:29	
<b>92683138006</b>	<b>YAT-AP1-EB-1</b>					
EPA 9315	Radium-226	0.126U ± 0.133 (0.263)	pCi/L		09/08/23 11:35	
EPA 9320	Radium-228	C:82% T:NA 0.504U ± 0.354 (0.690)	pCi/L		09/06/23 12:41	
Total Radium Calculation	Total Radium	C:83% T:93% 0.630U ± 0.487 (0.953)	pCi/L		09/08/23 17:29	
<b>92683138007</b>	<b>YAT-AP1-FB-1</b>					
EPA 9315	Radium-226	0.145U ± 0.144 (0.283)	pCi/L		09/08/23 13:11	
EPA 9320	Radium-228	C:80% T:NA 0.798 ± 0.396 (0.689)	pCi/L		09/06/23 12:41	
Total Radium Calculation	Total Radium	C:80% T:93% 0.943U ± 0.540 (0.972)	pCi/L		09/08/23 17:29	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

**Sample:** YAT-YGWC-52      **Lab ID:** 92683138001      Collected: 08/15/23 11:23      Received: 08/16/23 09:07      Matrix: Water  
**PWS:**      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.119U ± 0.138 (0.288)</b> <b>C:94% T:NA</b>	pCi/L	09/08/23 11:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.200U ± 0.359 (0.785)</b> <b>C:81% T:88%</b>	pCi/L	09/06/23 12:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.319U ± 0.497 (1.07)</b>	pCi/L	09/08/23 17:23	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

**Sample: YAT-YGWC-44**      **Lab ID: 92683138002**      Collected: 08/15/23 13:27      Received: 08/16/23 09:07      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.337 ± 0.177 (0.250)</b> <b>C:90% T:NA</b>	pCi/L	09/08/23 11:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.816 ± 0.426 (0.764)</b> <b>C:81% T:87%</b>	pCi/L	09/06/23 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.15 ± 0.603 (1.01)</b>	pCi/L	09/08/23 17:29	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWC-45</b> <b>Lab ID: 92683138003</b> Collected: 08/15/23 15:05      Received: 08/16/23 09:07      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.677 ± 0.252 (0.280)</b> <b>C:83% T:NA</b>	pCi/L	09/08/23 11:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.659U ± 0.395 (0.734)</b> <b>C:77% T:88%</b>	pCi/L	09/06/23 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.34 ± 0.647 (1.01)</b>	pCi/L	09/08/23 17:29	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

**Sample: YAT-YGWC-46A**      **Lab ID: 92683138004**      Collected: 08/15/23 16:07      Received: 08/16/23 09:07      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.640 ± 0.249 (0.290)</b> <b>C:82% T:NA</b>	pCi/L	09/08/23 11:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.28 ± 0.522 (0.844)</b> <b>C:75% T:88%</b>	pCi/L	09/06/23 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.92 ± 0.771 (1.13)</b>	pCi/L	09/08/23 17:29	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-AP1-FD-1</b> <b>Lab ID: 92683138005</b> Collected: 08/15/23 00:00      Received: 08/16/23 09:07      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.538 ± 0.222 (0.245)</b> <b>C:82% T:NA</b>	pCi/L	09/08/23 11:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.04 ± 0.466 (0.799)</b> <b>C:82% T:88%</b>	pCi/L	09/06/23 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.58 ± 0.688 (1.04)</b>	pCi/L	09/08/23 17:29	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

<b>Sample:</b> YAT-AP1-EB-1	<b>Lab ID:</b> 92683138006	Collected: 08/15/23 17:10	Received: 08/16/23 09:07	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.126U ± 0.133 (0.263)</b> <b>C:82% T:NA</b>	pCi/L	09/08/23 11:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.504U ± 0.354 (0.690)</b> <b>C:83% T:93%</b>	pCi/L	09/06/23 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.630U ± 0.487 (0.953)</b>	pCi/L	09/08/23 17:29	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

**Sample:** YAT-AP1-FB-1      **Lab ID:** 92683138007      Collected: 08/15/23 13:50      Received: 08/16/23 09:07      Matrix: Water  
**PWS:**      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.145U ± 0.144 (0.283)</b> <b>C:80% T:NA</b>	pCi/L	09/08/23 13:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.798 ± 0.396 (0.689)</b> <b>C:80% T:93%</b>	pCi/L	09/06/23 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.943U ± 0.540 (0.972)</b>	pCi/L	09/08/23 17:29	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

QC Batch: 611649

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92683138002, 92683138003, 92683138004, 92683138005, 92683138006, 92683138007

METHOD BLANK: 2977146

Matrix: Water

Associated Lab Samples: 92683138002, 92683138003, 92683138004, 92683138005, 92683138006, 92683138007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.101 ± 0.125 (0.261) C:93% T:NA	pCi/L	09/08/23 11:33	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

QC Batch:	611584	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92683138001, 92683138002, 92683138003, 92683138004, 92683138005, 92683138006, 92683138007

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METHOD BLANK: 2976835 Matrix: Water

Associated Lab Samples: 92683138001, 92683138002, 92683138003, 92683138004, 92683138005, 92683138006, 92683138007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.100 ± 0.312 (0.703) C:75% T:95%	pCi/L	09/06/23 12:40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

QC Batch: 611647

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92683138001

METHOD BLANK: 2977138

Matrix: Water

Associated Lab Samples: 92683138001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0931 ± 0.137 (0.301) C:88% T:NA	pCi/L	09/08/23 10:01	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AP-1- RADs

Pace Project No.: 92683138

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683138001	YAT-YGWC-52	EPA 9315	611647		
92683138002	YAT-YGWC-44	EPA 9315	611649		
92683138003	YAT-YGWC-45	EPA 9315	611649		
92683138004	YAT-YGWC-46A	EPA 9315	611649		
92683138005	YAT-AP1-FD-1	EPA 9315	611649		
92683138006	YAT-AP1-EB-1	EPA 9315	611649		
92683138007	YAT-AP1-FB-1	EPA 9315	611649		
92683138001	YAT-YGWC-52	EPA 9320	611584		
92683138002	YAT-YGWC-44	EPA 9320	611584		
92683138003	YAT-YGWC-45	EPA 9320	611584		
92683138004	YAT-YGWC-46A	EPA 9320	611584		
92683138005	YAT-AP1-FD-1	EPA 9320	611584		
92683138006	YAT-AP1-EB-1	EPA 9320	611584		
92683138007	YAT-AP1-FB-1	EPA 9320	611584		
92683138001	YAT-YGWC-52	Total Radium Calculation	614331		
92683138002	YAT-YGWC-44	Total Radium Calculation	614334		
92683138003	YAT-YGWC-45	Total Radium Calculation	614334		
92683138004	YAT-YGWC-46A	Total Radium Calculation	614334		
92683138005	YAT-AP1-FD-1	Total Radium Calculation	614334		
92683138006	YAT-AP1-EB-1	Total Radium Calculation	614334		
92683138007	YAT-AP1-FB-1	Total Radium Calculation	614334		

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DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92683138**



Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 8/14/23  
COH

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 230 Type of Ice:  Wet  Blue  None

Cooler Temp: 2.3 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.3

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

**WO# : 92683138**

Project #

PM: BV

Due Date: 09/07/23

CLIENT: 92-GP-Yates

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
 Required Client Information:

Company: **GA Power**  
 Address: **Allianta, GA**  
 Email To: **ljacocker@southernco.com**  
 Phone: **470.620.6176**  
 Requested Due Date: **See below**

**Section B**  
 Required Project Information:

Report To: **SCS Contacts**  
 Copy To: **Arcadis Contacts**  
 Task No.: **VAT-CGR-ASSMT-202352**  
 Purchase Order #: \_\_\_\_\_  
 Project Name: **Plant Yates AP-1**  
 Project Number: \_\_\_\_\_

**Section C**  
 Invoice Information:

Attention: **Southern Co.**  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote: \_\_\_\_\_  
 Pace Project Manager: **Bonnie Vang**  
 Pace Profile #: **10840**

Page: 1 of 1

Requested Analytical Filtered (Y/N)

Residual Chlorine (Y/N)

Regulatory Agency

State Location

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -, /) Sample ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	DATE	TIME	PRESERVATIVES							ANALYSES TEST	Y/N			
								Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other		
1	VAT-YGWC-52	WT G	8/15/23	1123	---	---	---	6	2	4									
2	VAT-YGWC-44	WT G	8/15/23	1377	---	---	---	6	2	4									
3	VAT-YGWC-45	WT G	8/15/23	1505	---	---	---	6	2	4									
4	VAT-YGWC-46A	WT G	8/15/23	1607	---	---	---	6	2	3									
5	VAT-AP1-FD-1	WT G	8/15/23	---	---	---	---	6	2	4									
6	VAT-AP1-EB-1	WT G	8/15/23	1710	---	---	---	6	2	4									
7	VAT-AP1-FB-1	WT G	8/15/23	1350	---	---	---	6	2	4									
8																			
9																			
10																			
11																			
12																			

**ADDITIONAL COMMENTS:**

Anonymous Sample 300 0 (Cl, F, Sulfate)

App III Metals: Barium, Bismuth, Cadmium, Caesium, Chromium, Cobalt, Copper, Lead, Lithium, Manganese, Mercury, Niobium, Potassium, Selenium, Silver, Vanadium, Zinc, Zirconium

App IV Metals: Barium, Boron, Bismuth, Cadmium, Caesium, Chromium, Cobalt, Copper, Lead, Lithium, Manganese, Mercury, Niobium, Potassium, Selenium, Silver, Vanadium, Zinc, Zirconium

RELINQUISHED BY / AFFILIATION: **MCCLES** / Arcadis  
 DATE: **8/16/23** TIME: **0907**

ACCEPTED BY / AFFILIATION: **Wynne-William Price** / Pace  
 DATE: **8/16/23** TIME: **1115**

**SAMPLER NAME AND SIGNATURE:**

PRINT NAME OF SAMPLER: **Marc Chest** (Arcadis) DATE SIGNED: **8/16/23**

SIGNATURE OF SAMPLER: *(Signature)* (Arcadis) DATE SIGNED: **8/16/23**

TEMP in C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JJS1  
Date: 8/31/2023  
Worklist: 75028  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2976835
MB concentration:	0.100
MB 2 Sigma CSU:	0.312
MB MDC:	0.703
MB Numerical Performance Indicator:	0.63
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD75028	LCSD75028
Count Date:	9/6/2023	9/6/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.931	39.931
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.817
Target Conc. (pCi/L, g, F):	4.871	4.885
Uncertainty (Calculated):	0.239	0.239
Result (pCi/L, g, F):	4.767	3.683
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.036	0.867
Numerical Performance Indicator:	-0.19	-2.62
Percent Recovery:	97.85%	75.39%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	LCSD (Y or N)?	Y
Sample I.D.:	LCSD75028	9/6/2023
Duplicate Sample I.D.:	LCSD75028	23-043
Sample Result (pCi/L, g, F):	4.767	39.931
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.036	0.10
Sample Duplicate Result (pCi/L, g, F):	3.683	0.817
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.867	4.885
Are sample and/or duplicate results below RL?	NO	3.683
Duplicate Numerical Performance Indicator:	1.573	0.867
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	25.93%	75.39%
Duplicate Status vs Numerical Indicator:	Pass	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Sample Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Sample Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*[Handwritten signature]*

*VAL*  
*9/8/23*



# Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
 Analyst: SLC  
 Date: 9/2/2023  
 Worklist: 75041  
 Matrix: W/T

Method Blank Assessment	
MB Sample ID	2977138
MB concentration:	0.093
MB 2 Sigma CSU:	0.137
MB MDC:	0.301
MB Numerical Performance Indicator:	1.33
MB Status vs Numerical Indicator:	Pass
MB Status vs MDC:	N/A

Laboratory Control Sample Assessment		
Count Date:	LCSD (Y or N)?	Y
9/8/2023	LCSD75041	LCSD75041
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.013	24.013
Volume Used (mL):	0.10	0.509
Aliquot Volume (L, g, F):	4.723	4.719
Target Conc. (pCi/L, g, F):	0.057	0.057
Uncertainty (Calculated):	6.089	5.435
Result (pCi/L, g, F):	1.073	0.974
LCSD/CSU 2 Sigma CSU (pCi/L, g, F):	2.49	1.44
Numerical Performance Indicator:	128.92%	115.19%
Percent Recovery:	Warning	Pass
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	125%	125%
Upper % Recovery Limits:	75%	75%
Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	Duplicate Sample I.D.:	Sample I.D.:
LCSD75041	LCSD75041	92683138001
6.089	6.089	92683138001DUP
1.073	1.073	0.119
5.435	5.435	0.138
0.974	0.974	0.263
NO	NO	0.147
See Below ##		
0.884	0.884	-1.390
11.25%	11.25%	74.93%
Pass	Pass	Pass
N/A	N/A	N/A
25%	25%	25%

Sample Matrix Spike Control Assessment		
Sample Collection Date:	MS/MSD 1	MS/MSD 2
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:	Sample MS I.D.:	Sample MSD I.D.:
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*MPA 9/8/23*

*Ume 9/18/23*





# Quality Control Sample Performance Assessment

*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226  
 Analyst: SLC  
 Date: 9/12/2023  
 Worklist: 75042  
 Matrix: WT

Method Blank Assessment	
MB Sample ID	2977146
MB concentration:	0.101
MB 2 Sigma CSU:	0.125
MB MDC:	0.261
MB Numerical Performance Indicator:	1.59
MB Status vs Numerical Indicator:	Pass
MB Status vs MDC:	N/A

Laboratory Control Sample Assessment		
Count Date:	LCS/D (Y or N)?	
	LCS75042	Y
Decay Corrected Spike Concentration (pCi/mL):	19-033	19-033
Volume Used (mL):	24.013	24.013
Aliquot Volume (L, g, F):	0.10	0.10
Target Conc. (pCi/L, g, F):	4.790	4.775
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	6.088	6.235
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.071	1.103
Numerical Performance Indicator:	2.37	2.59
Percent Recovery:	127.10%	130.59%
Status vs Numerical Indicator:	Warning	Warning
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment		
Sample I.D.:	LCS75042	92683140002
Duplicate Sample I.D.:	LCS075042	92683140002DUP
Sample Result (pCi/L, g, F):	6.088	0.160
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.071	0.135
Sample Duplicate Result (pCi/L, g, F):	6.235	0.280
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.103	0.167
Are sample and/or duplicate results below RL?	NO	See Below #
Duplicate Numerical Performance Indicator:	-0.187	-1.090
Duplicate Status vs Numerical Indicator:	2.70%	54.18%
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	N/A	N/A
	25%	25%

Sample Matrix Spike Control Assessment		
Sample Collection Date:	MS/MSD 1	MS/MSD 2
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MSMSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
Duplicate Numerical Performance Indicator:		
M/S/MSD Duplicate Status vs Numerical Indicator:		
M/S/MSD Duplicate Status vs RPD:		
% RPD Limit:		

# Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*29/8/23*

*van 9/18/23*

# Upgradient Wells



August 31, 2023

Lauren Hartley  
Southern Company  
241 Ralph McGill Blvd NE  
Bin 10160  
Atlanta, GA 30308

RE: Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92683124

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between August 16, 2023 and August 17, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL  
Laura Midkiff, Southern Company  
Alex Simpson, Arcadis  
Becky Steever, Arcadis  
Jessica Ware, Arcadis  
Albert Zumbuhl, Arcadis



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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### **Pace Analytical Services Peachtree Corners**

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92683124001	YAT-YGWA-1I	Water	08/15/23 13:45	08/16/23 09:07
92683124002	YAT-YGWA-1D	Water	08/15/23 11:20	08/16/23 09:07
92683124003	YAT-YGWA-2I	Water	08/15/23 15:45	08/16/23 09:07
92683124004	YAT-YGWA-3D	Water	08/15/23 17:10	08/16/23 09:07
92683124005	YAT-YGWA-4I	Water	08/15/23 12:25	08/16/23 09:07
92683124006	YAT-YGWA-5I	Water	08/15/23 10:20	08/16/23 09:07
92683124007	YAT-YGWA-5D	Water	08/15/23 11:13	08/16/23 09:07
92683124008	YAT-YGWA-18S	Water	08/15/23 11:35	08/16/23 09:07
92683124009	YAT-YGWA-18I	Water	08/15/23 15:40	08/16/23 09:07
92683124010	YAT-YGWA-14S	Water	08/15/23 17:30	08/16/23 09:07
92683124011	YAT-YGWA-47	Water	08/15/23 09:43	08/16/23 09:07
92683124012	YAT-GWA-2	Water	08/15/23 10:20	08/16/23 09:07
92683124013	YAT-YGWA-17S	Water	08/15/23 14:50	08/16/23 09:07
92683124014	YAT-YGWA-20S	Water	08/15/23 12:25	08/16/23 09:07
92683124015	YAT-YGWA-21I	Water	08/15/23 10:35	08/16/23 09:07
92683124016	YAT-YGWA-39	Water	08/15/23 16:11	08/16/23 09:07
92683124017	YAT-YGWA-40	Water	08/15/23 17:20	08/16/23 09:07
92683124018	YAT-YGWA-30I	Water	08/16/23 12:20	08/17/23 09:55
92683124019	YAT-YGWA-3I	Water	08/16/23 10:50	08/17/23 09:55

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### SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92683124001	YAT-YGWA-1I	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124002	YAT-YGWA-1D	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124003	YAT-YGWA-2I	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124004	YAT-YGWA-3D	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124005	YAT-YGWA-4I	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124006	YAT-YGWA-5I	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124007	YAT-YGWA-5D	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124008	YAT-YGWA-18S	EPA 6010D	MS	1
		EPA 6020B	CW1	13

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92683124009	YAT-YGWA-18I	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92683124010	YAT-YGWA-14S	SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92683124011	YAT-YGWA-47	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124012	YAT-GWA-2	EPA 6010D	MS	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
92683124013	YAT-YGWA-17S	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
92683124014	YAT-YGWA-20S	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92683124015	YAT-YGWA-21I	SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: Plant Yates Pooled Upgradient  
 Pace Project No.: 92683124

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92683124016	YAT-YGWA-39	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92683124017	YAT-YGWA-40	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92683124018	YAT-YGWA-30I	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92683124019	YAT-YGWA-3I	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville  
 PASI-GA = Pace Analytical Services - Peachtree Corners, GA

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92683124001</b>	<b>YAT-YGWA-1I</b>					
EPA 6010D	Calcium	1.8	mg/L	1.0	08/24/23 19:18	
EPA 6020B	Barium	0.0078	mg/L	0.0050	08/25/23 17:09	
EPA 6020B	Boron	0.0094J	mg/L	0.040	08/25/23 17:09	
EPA 6020B	Cobalt	0.00072J	mg/L	0.0050	08/25/23 17:09	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	08/25/23 17:09	
EPA 6020B	Molybdenum	0.0047J	mg/L	0.010	08/25/23 17:09	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	08/22/23 17:17	
SM 2540C-2015	Total Dissolved Solids	65.0	mg/L	25.0	08/21/23 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	08/18/23 21:15	
EPA 300.0 Rev 2.1 1993	Sulfate	4.6	mg/L	1.0	08/18/23 21:15	
<b>92683124002</b>	<b>YAT-YGWA-1D</b>					
EPA 6010D	Calcium	13.5	mg/L	1.0	08/24/23 19:23	
EPA 6020B	Barium	0.0059	mg/L	0.0050	08/25/23 17:12	
EPA 6020B	Lithium	0.0079J	mg/L	0.030	08/25/23 17:12	
EPA 6020B	Molybdenum	0.0098J	mg/L	0.010	08/25/23 17:12	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	08/22/23 17:20	
SM 2540C-2015	Total Dissolved Solids	121	mg/L	25.0	08/21/23 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	08/18/23 21:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.10	08/18/23 21:29	
EPA 300.0 Rev 2.1 1993	Sulfate	9.6	mg/L	1.0	08/18/23 21:29	
<b>92683124003</b>	<b>YAT-YGWA-2I</b>					
EPA 6010D	Calcium	23.2	mg/L	1.0	08/24/23 19:29	
EPA 6020B	Barium	0.0031J	mg/L	0.0050	08/25/23 17:16	
EPA 6020B	Molybdenum	0.0071J	mg/L	0.010	08/25/23 17:16	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	08/22/23 17:22	
SM 2540C-2015	Total Dissolved Solids	157	mg/L	25.0	08/21/23 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	0.93J	mg/L	1.0	08/18/23 21:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.081J	mg/L	0.10	08/18/23 21:44	
EPA 300.0 Rev 2.1 1993	Sulfate	17.2	mg/L	1.0	08/18/23 21:44	
<b>92683124004</b>	<b>YAT-YGWA-3D</b>					
EPA 6010D	Calcium	27.4	mg/L	1.0	08/24/23 19:34	
EPA 6020B	Barium	0.0046J	mg/L	0.0050	08/25/23 17:31	
EPA 6020B	Lithium	0.023J	mg/L	0.15	08/28/23 13:28	D3
EPA 6020B	Molybdenum	0.012	mg/L	0.010	08/25/23 17:31	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	08/22/23 17:25	
SM 2540C-2015	Total Dissolved Solids	231	mg/L	25.0	08/21/23 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	08/18/23 22:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.42	mg/L	0.10	08/18/23 22:27	
EPA 300.0 Rev 2.1 1993	Sulfate	6.8	mg/L	1.0	08/18/23 22:27	
<b>92683124005</b>	<b>YAT-YGWA-4I</b>					
EPA 6010D	Calcium	7.8	mg/L	1.0	08/28/23 21:13	M1
EPA 6020B	Barium	0.011	mg/L	0.0050	08/25/23 17:35	
EPA 6020B	Lithium	0.0083J	mg/L	0.030	08/25/23 17:35	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	08/22/23 17:28	
SM 2540C-2015	Total Dissolved Solids	99.0	mg/L	25.0	08/21/23 13:11	

### REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92683124005</b>	<b>YAT-YGWA-4I</b>					
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	08/18/23 22:41	
EPA 300.0 Rev 2.1 1993	Sulfate	7.5	mg/L	1.0	08/18/23 22:41	
<b>92683124006</b>	<b>YAT-YGWA-5I</b>					
EPA 6010D	Calcium	2.6	mg/L	1.0	08/28/23 21:33	
EPA 6020B	Barium	0.018	mg/L	0.0050	08/25/23 17:46	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	08/22/23 17:30	
SM 2540C-2015	Total Dissolved Solids	76.0	mg/L	25.0	08/21/23 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	08/18/23 22:56	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	08/18/23 22:56	
<b>92683124007</b>	<b>YAT-YGWA-5D</b>					
EPA 6010D	Calcium	25.0	mg/L	1.0	08/28/23 21:39	
EPA 6020B	Barium	0.0074	mg/L	0.0050	08/25/23 17:50	
EPA 6020B	Lithium	0.0059J	mg/L	0.15	08/28/23 13:40	D3
EPA 6020B	Molybdenum	0.00090J	mg/L	0.010	08/25/23 17:50	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	08/22/23 17:33	
SM 2540C-2015	Total Dissolved Solids	219	mg/L	25.0	08/21/23 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	3.1	mg/L	1.0	08/18/23 23:10	
EPA 300.0 Rev 2.1 1993	Sulfate	4.8	mg/L	1.0	08/18/23 23:10	
<b>92683124008</b>	<b>YAT-YGWA-18S</b>					
EPA 6010D	Calcium	0.80J	mg/L	1.0	08/28/23 21:44	
EPA 6020B	Barium	0.012	mg/L	0.0050	08/25/23 17:53	
EPA 6020B	Beryllium	0.000057J	mg/L	0.00050	08/25/23 17:53	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	08/25/23 17:53	
EPA 6020B	Lithium	0.00077J	mg/L	0.030	08/25/23 17:53	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	08/22/23 17:44	
SM 2540C-2015	Total Dissolved Solids	81.0	mg/L	25.0	08/21/23 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	mg/L	1.0	08/18/23 23:25	
EPA 300.0 Rev 2.1 1993	Sulfate	0.88J	mg/L	1.0	08/18/23 23:25	
<b>92683124009</b>	<b>YAT-YGWA-18I</b>					
EPA 6010D	Calcium	5.1	mg/L	1.0	08/28/23 21:49	
EPA 6020B	Barium	0.020	mg/L	0.0050	08/25/23 17:57	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	08/22/23 17:46	
SM 2540C-2015	Total Dissolved Solids	96.0	mg/L	25.0	08/21/23 13:12	
EPA 300.0 Rev 2.1 1993	Chloride	7.3	mg/L	1.0	08/18/23 23:39	
EPA 300.0 Rev 2.1 1993	Sulfate	0.51J	mg/L	1.0	08/18/23 23:39	
<b>92683124010</b>	<b>YAT-YGWA-14S</b>					
EPA 6010D	Calcium	1.3	mg/L	1.0	08/28/23 22:04	
EPA 6020B	Barium	0.0079	mg/L	0.0050	08/25/23 18:01	
EPA 6020B	Beryllium	0.00018J	mg/L	0.00050	08/25/23 18:01	
EPA 6020B	Boron	0.017J	mg/L	0.040	08/25/23 18:01	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	08/25/23 18:01	
EPA 7470A	Mercury	0.00016J	mg/L	0.00020	08/22/23 17:49	
SM 2540C-2015	Total Dissolved Solids	69.0	mg/L	25.0	08/21/23 13:14	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	08/19/23 00:22	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92683124010</b>	<b>YAT-YGWA-14S</b>					
EPA 300.0 Rev 2.1 1993	Sulfate	6.0	mg/L	1.0	08/19/23 00:22	
<b>92683124011</b>	<b>YAT-YGWA-47</b>					
EPA 6010D	Calcium	9.6	mg/L	1.0	08/28/23 22:10	
EPA 6020B	Barium	0.032	mg/L	0.0050	08/25/23 18:04	
EPA 6020B	Cobalt	0.00072J	mg/L	0.0050	08/25/23 18:04	
EPA 6020B	Lithium	0.0040J	mg/L	0.15	08/28/23 13:58	D3
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	08/22/23 17:52	
SM 2540C-2015	Total Dissolved Solids	186	mg/L	25.0	08/21/23 13:15	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	08/19/23 01:35	
EPA 300.0 Rev 2.1 1993	Sulfate	47.7	mg/L	1.0	08/19/23 01:35	
<b>92683124012</b>	<b>YAT-GWA-2</b>					
EPA 6010D	Calcium	20.3	mg/L	1.0	08/24/23 19:39	
EPA 6020B	Barium	0.030	mg/L	0.0050	08/25/23 18:08	
EPA 6020B	Cobalt	0.031	mg/L	0.0050	08/25/23 18:08	
EPA 6020B	Copper	0.0011J	mg/L	0.0050	08/25/23 18:08	B
EPA 6020B	Nickel	0.0098	mg/L	0.0050	08/25/23 18:08	
EPA 6020B	Zinc	0.0080J	mg/L	0.010	08/25/23 18:08	
SM 2540C-2015	Total Dissolved Solids	230	mg/L	25.0	08/21/23 13:15	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	08/19/23 01:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	08/19/23 01:49	
EPA 300.0 Rev 2.1 1993	Sulfate	74.2	mg/L	1.0	08/19/23 01:49	
<b>92683124013</b>	<b>YAT-YGWA-17S</b>					
EPA 6010D	Calcium	2.9	mg/L	1.0	08/28/23 22:15	
EPA 6020B	Barium	0.016	mg/L	0.0050	08/25/23 18:12	
SM 2540C-2015	Total Dissolved Solids	74.0	mg/L	25.0	08/21/23 13:16	
EPA 300.0 Rev 2.1 1993	Chloride	11.6	mg/L	1.0	08/19/23 02:04	
EPA 300.0 Rev 2.1 1993	Sulfate	4.6	mg/L	1.0	08/19/23 02:04	
<b>92683124014</b>	<b>YAT-YGWA-20S</b>					
EPA 6010D	Calcium	2.2	mg/L	1.0	08/28/23 22:20	
EPA 6020B	Barium	0.012	mg/L	0.0050	08/25/23 18:16	
SM 2540C-2015	Total Dissolved Solids	62.0	mg/L	25.0	08/21/23 13:16	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	08/19/23 02:18	
<b>92683124015</b>	<b>YAT-YGWA-21I</b>					
EPA 6010D	Calcium	6.1	mg/L	1.0	08/28/23 22:25	
EPA 6020B	Barium	0.0075	mg/L	0.0050	08/25/23 18:19	
EPA 6020B	Boron	0.046J	mg/L	0.20	08/29/23 17:06	D3
EPA 6020B	Cobalt	0.011	mg/L	0.0050	08/25/23 18:19	
EPA 6020B	Lithium	0.0062J	mg/L	0.15	08/29/23 17:06	D3
SM 2540C-2015	Total Dissolved Solids	126	mg/L	25.0	08/21/23 13:16	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	08/19/23 02:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	08/19/23 02:32	
EPA 300.0 Rev 2.1 1993	Sulfate	4.1	mg/L	1.0	08/19/23 02:32	
<b>92683124016</b>	<b>YAT-YGWA-39</b>					
EPA 6010D	Calcium	17.2	mg/L	1.0	08/28/23 22:30	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92683124016</b>	<b>YAT-YGWA-39</b>					
EPA 6020B	Barium	0.031	mg/L	0.0050	08/25/23 18:31	
EPA 6020B	Boron	0.15J	mg/L	0.20	08/28/23 14:36	D3
EPA 6020B	Cobalt	0.00072J	mg/L	0.0050	08/25/23 18:31	
EPA 6020B	Lithium	0.0064J	mg/L	0.15	08/28/23 14:36	D3
EPA 6020B	Molybdenum	0.0061J	mg/L	0.010	08/25/23 18:31	
SM 2540C-2015	Total Dissolved Solids	225	mg/L	25.0	08/21/23 13:16	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	08/19/23 02:47	
EPA 300.0 Rev 2.1 1993	Sulfate	7.6	mg/L	1.0	08/19/23 02:47	
<b>92683124017</b>	<b>YAT-YGWA-40</b>					
EPA 6010D	Calcium	5.3	mg/L	1.0	08/28/23 22:35	
EPA 6020B	Barium	0.034	mg/L	0.0050	08/25/23 18:34	
EPA 6020B	Boron	0.052J	mg/L	0.20	08/28/23 14:42	D3
EPA 7470A	Mercury	0.00037	mg/L	0.00020	08/22/23 18:07	
SM 2540C-2015	Total Dissolved Solids	83.0	mg/L	25.0	08/21/23 13:17	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	08/19/23 03:01	
EPA 300.0 Rev 2.1 1993	Sulfate	16.4	mg/L	1.0	08/19/23 03:01	
<b>92683124018</b>	<b>YAT-YGWA-30I</b>					
EPA 6010D	Calcium	1.4	mg/L	1.0	08/29/23 22:45	
EPA 6020B	Barium	0.0066	mg/L	0.0050	08/25/23 18:42	
EPA 6020B	Cobalt	0.0028J	mg/L	0.0050	08/25/23 18:42	
SM 2540C-2015	Total Dissolved Solids	48.0	mg/L	25.0	08/22/23 16:00	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	08/19/23 18:58	
EPA 300.0 Rev 2.1 1993	Sulfate	0.90J	mg/L	1.0	08/19/23 18:58	
<b>92683124019</b>	<b>YAT-YGWA-3I</b>					
EPA 6010D	Calcium	24.9	mg/L	1.0	08/29/23 22:55	
EPA 6020B	Barium	0.0037J	mg/L	0.0050	08/25/23 18:45	
EPA 6020B	Lithium	0.025J	mg/L	0.15	08/28/23 15:00	D3
EPA 6020B	Molybdenum	0.012	mg/L	0.010	08/25/23 18:45	
SM 2540C-2015	Total Dissolved Solids	148	mg/L	25.0	08/22/23 16:00	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	08/19/23 19:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	08/19/23 19:43	M1
EPA 300.0 Rev 2.1 1993	Sulfate	20.3	mg/L	1.0	08/19/23 19:43	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-11		Lab ID: 92683124001		Collected: 08/15/23 13:45		Received: 08/16/23 09:07		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.8	mg/L	1.0	0.12	1	08/24/23 09:50	08/24/23 19:18	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 17:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:09	7440-38-2	
Barium	0.0078	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/21/23 18:00	08/25/23 17:09	7440-41-7	
Boron	0.0094J	mg/L	0.040	0.0086	1	08/21/23 18:00	08/25/23 17:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:09	7440-47-3	
Cobalt	0.00072J	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:09	7439-92-1	
Lithium	0.0020J	mg/L	0.030	0.00073	1	08/21/23 18:00	08/25/23 17:09	7439-93-2	
Molybdenum	0.0047J	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:09	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00015J	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:17	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	65.0	mg/L	25.0	25.0	1		08/21/23 13:10		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.4	mg/L	1.0	0.60	1		08/18/23 21:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/18/23 21:15	16984-48-8	
Sulfate	4.6	mg/L	1.0	0.50	1		08/18/23 21:15	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-1D		Lab ID: 92683124002		Collected: 08/15/23 11:20		Received: 08/16/23 09:07		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	13.5	mg/L	1.0	0.12	1	08/24/23 09:50	08/24/23 19:23	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 17:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:12	7440-38-2	
Barium	0.0059	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/21/23 18:00	08/25/23 17:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/21/23 18:00	08/25/23 17:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:12	7439-92-1	
Lithium	0.0079J	mg/L	0.030	0.00073	1	08/21/23 18:00	08/25/23 17:12	7439-93-2	
Molybdenum	0.0098J	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:12	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00015J	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:20	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	121	mg/L	25.0	25.0	1		08/21/23 13:10		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.1	mg/L	1.0	0.60	1		08/18/23 21:29	16887-00-6	
Fluoride	0.057J	mg/L	0.10	0.050	1		08/18/23 21:29	16984-48-8	
Sulfate	9.6	mg/L	1.0	0.50	1		08/18/23 21:29	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-2I		Lab ID: 92683124003		Collected: 08/15/23 15:45		Received: 08/16/23 09:07		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	23.2	mg/L	1.0	0.12	1	08/24/23 09:50	08/24/23 19:29	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 17:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:16	7440-38-2	
Barium	0.0031J	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:16	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 13:11	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 13:11	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:16	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 13:11	7439-93-2	D3
Molybdenum	0.0071J	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:16	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00015J	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:22	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	157	mg/L	25.0	25.0	1		08/21/23 13:10		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	0.93J	mg/L	1.0	0.60	1		08/18/23 21:44	16887-00-6	
Fluoride	0.081J	mg/L	0.10	0.050	1		08/18/23 21:44	16984-48-8	
Sulfate	17.2	mg/L	1.0	0.50	1		08/18/23 21:44	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-3D		Lab ID: 92683124004		Collected: 08/15/23 17:10		Received: 08/16/23 09:07		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	27.4	mg/L	1.0	0.12	1	08/24/23 09:50	08/24/23 19:34	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 17:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:31	7440-38-2	
Barium	0.0046J	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:31	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 13:28	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 13:28	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:31	7439-92-1	
Lithium	0.023J	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 13:28	7439-93-2	D3
Molybdenum	0.012	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:31	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00014J	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:25	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	231	mg/L	25.0	25.0	1		08/21/23 13:10		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.1	mg/L	1.0	0.60	1		08/18/23 22:27	16887-00-6	
Fluoride	0.42	mg/L	0.10	0.050	1		08/18/23 22:27	16984-48-8	
Sulfate	6.8	mg/L	1.0	0.50	1		08/18/23 22:27	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-4I		Lab ID: 92683124005		Collected: 08/15/23 12:25		Received: 08/16/23 09:07		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	7.8	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 21:13	7440-70-2	M1
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 17:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:35	7440-38-2	
Barium	0.011	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/21/23 18:00	08/25/23 17:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/21/23 18:00	08/25/23 17:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:35	7439-92-1	
Lithium	0.0083J	mg/L	0.030	0.00073	1	08/21/23 18:00	08/25/23 17:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:35	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00013J	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:28	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	99.0	mg/L	25.0	25.0	1		08/21/23 13:11		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.4	mg/L	1.0	0.60	1		08/18/23 22:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/18/23 22:41	16984-48-8	
Sulfate	7.5	mg/L	1.0	0.50	1		08/18/23 22:41	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

**Sample: YAT-YGWA-5I**      **Lab ID: 92683124006**      Collected: 08/15/23 10:20      Received: 08/16/23 09:07      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>2.6</b>	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 21:33	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 17:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:46	7440-38-2	
Barium	<b>0.018</b>	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:46	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 13:34	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 13:34	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:46	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 13:34	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:46	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00014J</b>	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:30	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>76.0</b>	mg/L	25.0	25.0	1		08/21/23 13:11		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>4.1</b>	mg/L	1.0	0.60	1		08/18/23 22:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/18/23 22:56	16984-48-8	
Sulfate	<b>2.2</b>	mg/L	1.0	0.50	1		08/18/23 22:56	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-5D		Lab ID: 92683124007		Collected: 08/15/23 11:13		Received: 08/16/23 09:07		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	25.0	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 21:39	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 17:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:50	7440-38-2	
Barium	0.0074	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:50	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 13:40	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 13:40	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:50	7439-92-1	
Lithium	0.0059J	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 13:40	7439-93-2	D3
Molybdenum	0.00090J	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:50	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00015J	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:33	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	219	mg/L	25.0	25.0	1		08/21/23 13:11		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.1	mg/L	1.0	0.60	1		08/18/23 23:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/18/23 23:10	16984-48-8	
Sulfate	4.8	mg/L	1.0	0.50	1		08/18/23 23:10	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-18S Lab ID: 92683124008 Collected: 08/15/23 11:35 Received: 08/16/23 09:07 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>0.80J</b>	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 21:44	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 17:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:53	7440-38-2	
Barium	<b>0.012</b>	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:53	7440-39-3	
Beryllium	<b>0.000057J</b>	mg/L	0.00050	0.000054	1	08/21/23 18:00	08/25/23 17:53	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/21/23 18:00	08/25/23 17:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:53	7440-43-9	
Chromium	<b>0.0013J</b>	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:53	7439-92-1	
Lithium	<b>0.00077J</b>	mg/L	0.030	0.00073	1	08/21/23 18:00	08/25/23 17:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:53	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00015J</b>	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:44	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>81.0</b>	mg/L	25.0	25.0	1		08/21/23 13:11		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>6.7</b>	mg/L	1.0	0.60	1		08/18/23 23:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/18/23 23:25	16984-48-8	
Sulfate	<b>0.88J</b>	mg/L	1.0	0.50	1		08/18/23 23:25	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-18I		Lab ID: 92683124009		Collected: 08/15/23 15:40		Received: 08/16/23 09:07		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.1	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 21:49	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 17:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:57	7440-38-2	
Barium	0.020	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:57	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 13:46	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 13:46	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:57	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 13:46	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:57	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00014J	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:46	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	96.0	mg/L	25.0	25.0	1		08/21/23 13:12		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	7.3	mg/L	1.0	0.60	1		08/18/23 23:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/18/23 23:39	16984-48-8	
Sulfate	0.51J	mg/L	1.0	0.50	1		08/18/23 23:39	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

**Sample: YAT-YGWA-14S**      **Lab ID: 92683124010**      Collected: 08/15/23 17:30      Received: 08/16/23 09:07      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.3	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:04	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 18:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:01	7440-38-2	
Barium	0.0079	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:01	7440-39-3	
Beryllium	0.00018J	mg/L	0.00050	0.000054	1	08/21/23 18:00	08/25/23 18:01	7440-41-7	
Boron	0.017J	mg/L	0.040	0.0086	1	08/21/23 18:00	08/25/23 18:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:01	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/21/23 18:00	08/25/23 18:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:01	7439-98-7	
Selenium	0.0014J	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:01	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00016J	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:49	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	69.0	mg/L	25.0	25.0	1		08/21/23 13:14		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.1	mg/L	1.0	0.60	1		08/19/23 00:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 00:22	16984-48-8	
Sulfate	6.0	mg/L	1.0	0.50	1		08/19/23 00:22	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-47		Lab ID: 92683124011		Collected: 08/15/23 09:43		Received: 08/16/23 09:07		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	9.6	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:10	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 18:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:04	7440-38-2	
Barium	0.032	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:04	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 13:58	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 13:58	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:04	7440-47-3	
Cobalt	0.00072J	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:04	7439-92-1	
Lithium	0.0040J	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 13:58	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:04	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00014J	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:52	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	186	mg/L	25.0	25.0	1		08/21/23 13:15		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.5	mg/L	1.0	0.60	1		08/19/23 01:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 01:35	16984-48-8	
Sulfate	47.7	mg/L	1.0	0.50	1		08/19/23 01:35	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

**Sample: YAT-GWA-2**      **Lab ID: 92683124012**      Collected: 08/15/23 10:20      Received: 08/16/23 09:07      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>20.3</b>	mg/L	1.0	0.12	1	08/24/23 09:50	08/24/23 19:39	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 18:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:08	7440-38-2	
Barium	<b>0.030</b>	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:08	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 14:04	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 14:04	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:08	7440-47-3	
Cobalt	<b>0.031</b>	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:08	7440-48-4	
Copper	<b>0.0011J</b>	mg/L	0.0050	0.0010	1	08/21/23 18:00	08/25/23 18:08	7440-50-8	B
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:08	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 14:04	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:08	7439-98-7	
Nickel	<b>0.0098</b>	mg/L	0.0050	0.00071	1	08/21/23 18:00	08/25/23 18:08	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:08	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/21/23 18:00	08/25/23 18:08	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:08	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0025	1	08/21/23 18:00	08/25/23 18:08	7440-62-2	
Zinc	<b>0.0080J</b>	mg/L	0.010	0.0070	1	08/21/23 18:00	08/25/23 18:08	7440-66-6	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:54	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>230</b>	mg/L	25.0	25.0	1		08/21/23 13:15		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>5.6</b>	mg/L	1.0	0.60	1		08/19/23 01:49	16887-00-6	
Fluoride	<b>0.065J</b>	mg/L	0.10	0.050	1		08/19/23 01:49	16984-48-8	
Sulfate	<b>74.2</b>	mg/L	1.0	0.50	1		08/19/23 01:49	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

**Sample:** YAT-YGWA-17S      **Lab ID:** 92683124013      Collected: 08/15/23 14:50      Received: 08/16/23 09:07      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.9	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:15	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 18:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:12	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:12	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 14:24	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 14:24	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:12	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 14:24	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:12	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:57	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	74.0	mg/L	25.0	25.0	1		08/21/23 13:16		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	11.6	mg/L	1.0	0.60	1		08/19/23 02:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 02:04	16984-48-8	
Sulfate	4.6	mg/L	1.0	0.50	1		08/19/23 02:04	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-20S		Lab ID: 92683124014		Collected: 08/15/23 12:25		Received: 08/16/23 09:07		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.2	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:20	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 18:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:16	7440-38-2	
Barium	0.012	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:16	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 14:30	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 14:30	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:16	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 14:30	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:16	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:59	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	62.0	mg/L	25.0	25.0	1		08/21/23 13:16		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.8	mg/L	1.0	0.60	1		08/19/23 02:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 02:18	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/19/23 02:18	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-211 Lab ID: 92683124015 Collected: 08/15/23 10:35 Received: 08/16/23 09:07 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	6.1	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:25	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 18:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:19	7440-38-2	
Barium	0.0075	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:19	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/29/23 17:06	7440-41-7	D3
Boron	0.046J	mg/L	0.20	0.043	5	08/21/23 18:00	08/29/23 17:06	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:19	7440-47-3	
Cobalt	0.011	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:19	7439-92-1	
Lithium	0.0062J	mg/L	0.15	0.0036	5	08/21/23 18:00	08/29/23 17:06	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:19	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 18:02	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	126	mg/L	25.0	25.0	1		08/21/23 13:16		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.3	mg/L	1.0	0.60	1		08/19/23 02:32	16887-00-6	
Fluoride	0.061J	mg/L	0.10	0.050	1		08/19/23 02:32	16984-48-8	
Sulfate	4.1	mg/L	1.0	0.50	1		08/19/23 02:32	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-39		Lab ID: 92683124016		Collected: 08/15/23 16:11		Received: 08/16/23 09:07		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	17.2	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:30	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 18:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:31	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:31	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 14:36	7440-41-7	D3
Boron	0.15J	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 14:36	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:31	7440-47-3	
Cobalt	0.00072J	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:31	7439-92-1	
Lithium	0.0064J	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 14:36	7439-93-2	D3
Molybdenum	0.0061J	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:31	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 18:05	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	225	mg/L	25.0	25.0	1		08/21/23 13:16		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.5	mg/L	1.0	0.60	1		08/19/23 02:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 02:47	16984-48-8	
Sulfate	7.6	mg/L	1.0	0.50	1		08/19/23 02:47	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-40		Lab ID: 92683124017		Collected: 08/15/23 17:20		Received: 08/16/23 09:07		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.3	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:35	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 18:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:34	7440-38-2	
Barium	0.034	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:34	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 14:42	7440-41-7	D3
Boron	0.052J	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 14:42	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:34	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 14:42	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:34	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00037	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 18:07	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	83.0	mg/L	25.0	25.0	1		08/21/23 13:17		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.6	mg/L	1.0	0.60	1		08/19/23 03:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 03:01	16984-48-8	
Sulfate	16.4	mg/L	1.0	0.50	1		08/19/23 03:01	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-30I		Lab ID: 92683124018		Collected: 08/16/23 12:20		Received: 08/17/23 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.4	mg/L	1.0	0.12	1	08/29/23 09:23	08/29/23 22:45	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 18:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:42	7440-38-2	
Barium	0.0066	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:42	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 14:54	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 14:54	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:42	7440-47-3	
Cobalt	0.0028J	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:42	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 14:54	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:42	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/22/23 13:00	08/22/23 19:00	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	48.0	mg/L	25.0	25.0	1		08/22/23 16:00		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.5	mg/L	1.0	0.60	1		08/19/23 18:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 18:58	16984-48-8	
Sulfate	0.90J	mg/L	1.0	0.50	1		08/19/23 18:58	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Sample: YAT-YGWA-3I		Lab ID: 92683124019		Collected: 08/16/23 10:50		Received: 08/17/23 09:55		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>24.9</b>	mg/L	1.0	0.12	1	08/29/23 09:23	08/29/23 22:55	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 18:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:45	7440-38-2	
Barium	<b>0.0037J</b>	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:45	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 15:00	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 15:00	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:45	7439-92-1	
Lithium	<b>0.025J</b>	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 15:00	7439-93-2	D3
Molybdenum	<b>0.012</b>	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:45	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/22/23 13:00	08/22/23 19:02	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>148</b>	mg/L	25.0	25.0	1		08/22/23 16:00		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.1</b>	mg/L	1.0	0.60	1		08/19/23 19:43	16887-00-6	
Fluoride	<b>0.11</b>	mg/L	0.10	0.050	1		08/19/23 19:43	16984-48-8	M1
Sulfate	<b>20.3</b>	mg/L	1.0	0.50	1		08/19/23 19:43	14808-79-8	

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**QUALITY CONTROL DATA**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

QC Batch:	795463	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124012

METHOD BLANK: 4121755 Matrix: Water  
 Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/24/23 18:37	

LABORATORY CONTROL SAMPLE: 4121756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4121757 4121758

Parameter	Units	4121757		4121758		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	107	1	1	100	103	-623	-414	75-125	2	20 M1

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**QUALITY CONTROL DATA**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

QC Batch:	795958	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017		

METHOD BLANK:	4124394	Matrix:	Water
Associated Lab Samples:	92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/28/23 21:02	

LABORATORY CONTROL SAMPLE: 4124395						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4124396												4124397	
Parameter	Units	92683124005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Calcium	mg/L	7.8	1	1	8.9	9.1	106	127	75-125	2	20	M1	

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**QUALITY CONTROL DATA**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

QC Batch:	796454	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92683124018, 92683124019

METHOD BLANK: 4126638 Matrix: Water

Associated Lab Samples: 92683124018, 92683124019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/29/23 20:25	

LABORATORY CONTROL SAMPLE: 4126639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4126640 4126641

Parameter	Units	4126640		4126641		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	34.6	1	34.9	36.9	31	227	75-125	5	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL DATA**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

QC Batch: 794949 Analysis Method: EPA 6020B  
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017, 92683124018, 92683124019

METHOD BLANK: 4119064 Matrix: Water  
 Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017, 92683124018, 92683124019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	08/25/23 17:01	
Arsenic	mg/L	ND	0.0050	0.0037	08/25/23 17:01	
Barium	mg/L	ND	0.0050	0.00067	08/25/23 17:01	
Beryllium	mg/L	ND	0.00050	0.000054	08/25/23 17:01	
Boron	mg/L	ND	0.040	0.0086	08/25/23 17:01	
Cadmium	mg/L	ND	0.00050	0.00011	08/25/23 17:01	
Chromium	mg/L	ND	0.0050	0.0011	08/25/23 17:01	
Cobalt	mg/L	ND	0.0050	0.00039	08/25/23 17:01	
Copper	mg/L	ND	0.0050	0.0010	08/25/23 17:01	
Lead	mg/L	ND	0.0010	0.00012	08/25/23 17:01	
Lithium	mg/L	ND	0.030	0.00073	08/25/23 17:01	
Molybdenum	mg/L	ND	0.010	0.00074	08/25/23 17:01	
Nickel	mg/L	ND	0.0050	0.00071	08/25/23 17:01	
Selenium	mg/L	ND	0.0050	0.0014	08/25/23 17:01	
Silver	mg/L	ND	0.0050	0.00044	08/25/23 17:01	
Thallium	mg/L	ND	0.0010	0.00018	08/25/23 17:01	
Vanadium	mg/L	ND	0.010	0.0025	08/25/23 17:01	
Zinc	mg/L	ND	0.010	0.0070	08/25/23 17:01	

LABORATORY CONTROL SAMPLE: 4119065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.11	109	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Copper	mg/L	0.1	0.10	105	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.11	113	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Nickel	mg/L	0.1	0.10	102	80-120	

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

LABORATORY CONTROL SAMPLE: 4119065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.10	104	80-120	
Silver	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	104	80-120	
Vanadium	mg/L	0.1	0.10	101	80-120	
Zinc	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4119066 4119067

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92683124003 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	0	20
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20
Barium	mg/L	0.0031J	0.1	0.1	0.11	0.11	103	103	75-125	0	20
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	103	105	75-125	2	20
Boron	mg/L	ND	1	1	1.1	1.1	105	106	75-125	1	20
Cadmium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20
Chromium	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	3	20
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20
Copper	mg/L	0.0011J	0.1	0.1	0.099	0.10	98	102	75-125	4	20
Lead	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20
Lithium	mg/L	ND	0.1	0.1	0.11J	0.11J	103	104	75-125		20
Molybdenum	mg/L	0.0071J	0.1	0.1	0.11	0.11	104	105	75-125	0	20
Nickel	mg/L	ND	0.1	0.1	0.099	0.10	99	102	75-125	4	20
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20
Silver	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20
Zinc	mg/L	ND	0.1	0.1	0.099	0.10	96	99	75-125	3	20

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**QUALITY CONTROL DATA**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

QC Batch: 795036 Analysis Method: EPA 7470A  
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017

METHOD BLANK: 4119606 Matrix: Water  
 Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/22/23 16:32	

LABORATORY CONTROL SAMPLE: 4119607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4119608 4119609

Parameter	Units	92682398009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00013J	0.0025	0.0025	0.0034	0.0034	131	132	75-125	0	20	M1

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**QUALITY CONTROL DATA**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

QC Batch: 795037	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92683124018, 92683124019

METHOD BLANK: 4119610 Matrix: Water

Associated Lab Samples: 92683124018, 92683124019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/22/23 18:15	

LABORATORY CONTROL SAMPLE: 4119611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4119612 4119613

Parameter	Units	4119612		4119613		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	92683139001 ND	0.0025	0.0025	0.0028	0.0028	111	112	75-125	1	20

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**QUALITY CONTROL DATA**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

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QC Batch: 794901 Analysis Method: SM 2540C-2015  
 QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids  
 Laboratory: Pace Analytical Services - Peachtree Corners, GA  
 Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017

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METHOD BLANK: 4118686 Matrix: Water  
 Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/21/23 13:08	

LABORATORY CONTROL SAMPLE: 4118687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	402	100	80-120	

SAMPLE DUPLICATE: 4118688

Parameter	Units	92683065001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	669	640	4	10	

SAMPLE DUPLICATE: 4118689

Parameter	Units	92683124010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	69.0	68.0	1	10	

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**QUALITY CONTROL DATA**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

QC Batch:	795117	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92683124018, 92683124019

METHOD BLANK: 4119882 Matrix: Water

Associated Lab Samples: 92683124018, 92683124019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/22/23 15:56	

LABORATORY CONTROL SAMPLE: 4119883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	80-120	

SAMPLE DUPLICATE: 4119884

Parameter	Units	92683139008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 4119885

Parameter	Units	92683384007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	97.0	89.0	9	10	

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**QUALITY CONTROL DATA**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

QC Batch:	794487	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009		

METHOD BLANK:	4116654	Matrix:	Water
Associated Lab Samples:	92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/18/23 16:41	
Fluoride	mg/L	ND	0.10	0.050	08/18/23 16:41	
Sulfate	mg/L	ND	1.0	0.50	08/18/23 16:41	

LABORATORY CONTROL SAMPLE: 4116655						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	48.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116656												4116657	
Parameter	Units	92683111001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Chloride	mg/L	101	50	50	140	143	79	84	90-110	2	10
Fluoride	mg/L	8.0	2.5	2.5	9.2	9.3	48	53	90-110	1	10	M1	
Sulfate	mg/L	555	50	50	590	596	70	82	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116658												4116659	
Parameter	Units	92682998003		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Chloride	mg/L	216	50	50	259	257	86	81	90-110	1	10
Fluoride	mg/L	0.12	2.5	2.5	2.4	2.4	91	93	90-110	2	10		
Sulfate	mg/L	96.1	50	50	128	127	64	62	90-110	1	10	M1	

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**QUALITY CONTROL DATA**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

QC Batch:	794488	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017		

METHOD BLANK:	4116660	Matrix:	Water
Associated Lab Samples:	92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/18/23 23:54	
Fluoride	mg/L	ND	0.10	0.050	08/18/23 23:54	
Sulfate	mg/L	ND	1.0	0.50	08/18/23 23:54	

LABORATORY CONTROL SAMPLE: 4116661						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.7	99	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116662												4116663	
Parameter	Units	92683124010		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Chloride	mg/L	4.1	50	50	51.8	53.2	96	98	90-110	3	10
Fluoride	mg/L	ND	2.5	2.5	2.3	2.4	93	96	90-110	4	10		
Sulfate	mg/L	6.0	50	50	52.3	53.7	93	95	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116664												4116665	
Parameter	Units	92683137003		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Chloride	mg/L	5.6	50	50	53.8	54.5	96	98	90-110	1	10
Fluoride	mg/L	0.070J	2.5	2.5	2.3	2.4	91	93	90-110	2	10		
Sulfate	mg/L	154	50	50	194	194	79	79	90-110	0	10 M1		

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**QUALITY CONTROL DATA**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

QC Batch: 794746	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92683124018

METHOD BLANK: 4118285 Matrix: Water

Associated Lab Samples: 92683124018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/19/23 11:26	
Fluoride	mg/L	ND	0.10	0.050	08/19/23 11:26	
Sulfate	mg/L	ND	1.0	0.50	08/19/23 11:26	

LABORATORY CONTROL SAMPLE: 4118286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	49.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4118287 4118288

Parameter	Units	92683419001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	7.0	50	50	55.4	57.3	97	101	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.7	2.8	105	108	90-110	3	10		
Sulfate	mg/L	2.8	50	50	50.7	52.7	96	100	90-110	4	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4118289 4118290

Parameter	Units	92683310003		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Chloride	mg/L	237	50	50	279	280	84	86	90-110	0	10	M1	
Fluoride	mg/L	0.13	2.5	2.5	3.0	3.0	113	116	90-110	2	10	M1	
Sulfate	mg/L	97.5	50	50	138	139	81	83	90-110	1	10	M1	

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**QUALITY CONTROL DATA**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

QC Batch: 794747	Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993	Analysis Description: 300.0 IC Anions
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92683124019

METHOD BLANK: 4118291 Matrix: Water

Associated Lab Samples: 92683124019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/19/23 19:13	
Fluoride	mg/L	ND	0.10	0.050	08/19/23 19:13	
Sulfate	mg/L	ND	1.0	0.50	08/19/23 19:13	

LABORATORY CONTROL SAMPLE: 4118292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	49.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4118293 4118294

Parameter	Units	92683124019		4118293		4118294		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				
Chloride	mg/L	1.1	50	50	50.4	50.8	99	99	90-110	1	10
Fluoride	mg/L	0.11	2.5	2.5	2.9	2.9	110	112	90-110	2	10 M1
Sulfate	mg/L	20.3	50	50	68.5	69.0	96	97	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4118295 4118296

Parameter	Units	92683384010		4118295		4118296		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result				
Chloride	mg/L	2.3	50	50	51.7	52.3	99	100	90-110	1	10
Fluoride	mg/L	0.062J	2.5	2.5	3.2	3.3	126	130	90-110	3	10 M1
Sulfate	mg/L	151	50	50	194	194	86	87	90-110	0	10 M1

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## QUALIFIERS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Table with 6 columns: Lab ID, Sample ID, QC Batch Method, QC Batch, Analytical Method, Analytical Batch. It lists various sample IDs and their corresponding QC and analytical data.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92683124

Table with 6 columns: Lab ID, Sample ID, QC Batch Method, QC Batch, Analytical Method, Analytical Batch. It lists various sample IDs and their corresponding QC and analytical data.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92683124

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683124017	YAT-YGWA-40	EPA 300.0 Rev 2.1 1993	794488		
92683124018	YAT-YGWA-30I	EPA 300.0 Rev 2.1 1993	794746		
92683124019	YAT-YGWA-3I	EPA 300.0 Rev 2.1 1993	794747		

### REPORT OF LABORATORY ANALYSIS

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DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

*GA Power*

Project #:

WO#: 92683124



Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *8/14/23*  
*COH*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:

IR Gun ID:

*230*

Type of Ice:  wet  Blue  None

Cooler Temp: *2.3* Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *2.3*

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)?  Yes  No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



Effective Date: 11/14/2022

WO#: 92683124

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

PM: BV

Due Date: 08/30/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 92-GP-Yates

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:  
 Company: GA Power  
 Address: Atlanta, GA  
 Requested One Date: 5/15/23

Section B Required Project Information:  
 Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Project Name: Plant Yates Pooled Upgradation  
 Project Number:   
 Requested One Date: 5/15/23

Section C Invoice Information:  
 Attention: Southern Co.  
 Address:   
 Invoice Number:   
 Project Name:   
 Project Number:   
 Requested One Date: 5/15/23

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED			SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyse Test	Residual Chlorine (Y/N)																	
			START DATE	TIME	END DATE			TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3			Methanol	Other															
1	YAT-YGWA-39	WIG G					6	2	4						X	X	X	X	X														
2	YAT-YGWA-40	WIG G					6	2	4						X	X	X	X	X														
3	YAT-YGWA-41	WIG G					6	2	4						X	X	X	X	X														
4	YAT-YGWA-1D	WIG G					6	2	4						X	X	X	X	X														
5	YAT-YGWA-2I	WIG G					6	2	4						X	X	X	X	X														
6	YAT-YGWA-3I	WIG G					6	2	4						X	X	X	X	X														
7	YAT-YGWA-3D	WIG G					6	2	4						X	X	X	X	X														
8																																	
9																																	
10																																	
11																																	
12																																	

ADDITIONAL COMMENTS:   
 ONE CHARACTER PER BOX. SAMPLE IDS MUST BE UNIQUE.

ANALYSIS TEST:   
 App III/IV Metals - Co, Ni, R  
 Cl. F, SO4  
 TDS (2540C)  
 RAD 9315/9326  
 App II (gypsum only)

RESIDUAL CHLORINE (Y/N):   
 ML08 3/24

REQUIRED BY / AFFILIATION	DATE	TIME	ASSEMBLED BY / AFFILIATION	DATE	TIME
[Signature]	5/15/23	1805	[Signature]	5/15/23	1805
[Signature]	5/14/23	0907	[Signature]	5/15/23	0917
[Signature]	5/15/23	1115	[Signature]	5/15/23	1115

SAMPLER NAME AND SIGNATURE:   
 PRINT NAME OF SAMPLER:   
 SIGNATURE OF SAMPLER:   
 DATE SIGNED: 5/15/23

TEMP in C:   
 Received on Ice (Y/N):   
 Custody Sealed Cooler (Y/N):   
 Samples Intact (Y/N):



DC#\_ Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicville  Atlanta  Knoxville

Sample Condition Upon Receipt

Client Name:

*GA Power*

Project #

WO#: 92683124

PM: BV

Due Date: 08/30/23

CLIENT: 92-GP-Yates

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Other:  Pace

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *8/14/23*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID:

*230*

Type of Ice:

wet  Blue  None

Cooler Temp:

*2.3*

Correction Factor: Add/Subtract (°C)

*0.0*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

*2.3*

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	<i>W</i>	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Project # **WO# : 92683124**

PM: BV

Due Date: 08/30/23

CLIENT: 92-GP-Yates

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRG/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (S, J, 9, 7)	AG6U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scrutination vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: **GA Power** Address: **Atlanta, GA** Phone: **470.620.6176** Fax: **470.620.6176** Email To: **baucok@scs-engineers.com** Requested Due Date: **8/16/23**

Section B Required Project Information: Report To: **SCS Contract** Copy To: **Arcadis Contract** Task No: **VAT-CGR-ASSMT-202352** Purchase Order #: Project Name: **Plant Yales Pooled Upgradation** Project Number: Invoice Information: Attention: **Southern CO** Address: Pace Quote Pace Project Manager: **Nicole Brewer** Pace Profile #: **10840**

ITEM #	SAMPLE ID	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES						Analysis Test	Y/N	Residual Chlorine (Y/N)		
						START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3				Methanol	Other
1	YAT-YGWA-47	Drinking Water	DW		G				2								X	X		
2	YAT-GWA-2	Waste Water	WW		G				2								X	X		
3	YAT-YGWA-41	Waste Water	WW		G				2								X	X		
4	YAT-YGWA-51	Process	P		G				2								X	X		
5	YAT-YGWA-5D	Process	P		G				2								X	X		
6	YAT-YGWA-17S	Process	P		G				2								X	X		
7	YAT-YGWA-18S	Process	P		G				2								X	X		
8	YAT-YGWA-18I	Process	P		G				2								X	X		
9	YAT-YGWA-20S	Process	P		G				2								X	X		
10	YAT-YGWA-21I	Process	P		G				2								X	X		
11	YAT-YGWA-30I	Process	P		G				2								X	X		
12	YAT-YGWA-14S	Process	P		G				2								X	X		

App I: Madis: Baton 6020B, Ca 6010D: App III: Madis: Baton 6020B, Zn, As, Ni, V App IV: Madis: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se) ThOD, Mercury (Hg)

Additional Comments: None

Signature: [Handwritten Signature]  
Date: 8/16/23

SAMPLER NAME AND SIGNATURE: PRINT NAME OF SAMPLER: **Kim Lipschinski** SIGNATURE OF SAMPLER: [Handwritten Signature] DATE SIGNED: **8/16/23**

TEMP in C: Received on Ice (Y/N): Custody Sealed Cooler (Y/N): Samples Intact (Y/N):





DC#\_TITLE: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

*GA Power*

Project #:

WO#: 92683124

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

PM: BV Due Date: 08/30/23  
CLIENT: 92-GP-Yates

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *8/16/23*  
*out*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:

IR Gun ID: *230*

Type of Ice:  wet  Blue  None

Cooler Temp: *2.3* Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *2.3*

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



DC#\_ Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DR0/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

**WO# : 92683124**

PM: BV

Due Date: 08/30/23

CLIENT: 92-GP-Yates

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA N82SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/SK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VGLU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
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**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Requested Client Information:

Company: GA Power  
 Address: Allenton, GA  
 Email To: bauckert@southtenco.com  
 Phone: 470.620.6176 Fax: \_\_\_\_\_  
 Requested Date Date: 8/16/23

**Section B**  
Reported Project Information:

Report To: SCS Contacts  
 Copy To: ACCISIS Contacts  
 Task No.: YAT-COR-ASSMT-202332  
 Purchase Order #: \_\_\_\_\_  
 Project Name: Plant Values Pooled Upgrade  
 Project Number: \_\_\_\_\_

**Section C**  
Invoice Information:

Attention: Southern Co.  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote: \_\_\_\_\_  
 Pace Project Manager: Alvin Polito  
 Pace POCs #: 10840  
 Requested Analytical Request (M/R): \_\_\_\_\_

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -, ) Sample IDs must be unique	MATRIX DRINK WATER WINE WASTEWATER SEWAGE INDUSTRIAL SLURRY URINE AIR OTHER TANK	CODE DW WT SW WW SI IL UR AR OT TS	COLLECTED				SAMPLE TEMP AT COLLECTION		PRESERVATIVES							ANALYSES TEST				TEMP IN C													
				MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	DATE	TIME	# OF CONTAINERS	UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals (Cd, Cu, Ni, Zn)	Cl. F. SO4	TDS (2540C)	RAD 9315/9320	App I / II (ppysum only)	Residual Chlorine (Y/N)	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)							
1	YAT-YGWA-47																																	
2	YAT-GWA-2																																	
3	YAT-YGWA-4I																																	
4	YAT-YGWA-5I																																	
5	YAT-YGWA-5D																																	
6	YAT-YGWA-17S																																	
7	YAT-YGWA-18S																																	
8	YAT-YGWA-18I																																	
9	YAT-YGWA-20S																																	
10	YAT-YGWA-21I																																	
11	YAT-YGWA-30I																																	
12	YAT-YGWA-14S																																	
ADDITIONAL COMMENTS:																																		
RELINQUISHED BY / AFFILIATION																																		
ACCEPTED BY / AFFILIATION																																		

APPLICATOR: GA Power

LABORATORY: Envirochem

APP ID: 60208

APPLICATOR: GA Power

LABORATORY: Envirochem

APP ID: 60208

APPLICATOR: GA Power

LABORATORY: Envirochem

APP ID: 60208

APPLICATOR: GA Power

LABORATORY: Envirochem

APP ID: 60208



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicville  Atlanta  Knoxville

Sample Condition Upon Receipt

Client Name:

*GA Power*

Project #:

WO#: 92683124

PM: BV

Due Date: 08/30/23

CLIENT: 92-GP-Yates

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *8/16/23*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID:

*230*

Type of Ice:

Wet  Blue  None

Cooler Temp:

*2.3*

Correction Factor: Add/Subtract (°C)

*0.0*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

*2.3*

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92683124

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

PM: BV

Due Date: 08/30/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 92-GP-Yates

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
 Requested Client Information:

Company: **GA Power**  
 Address: **Atlanta, GA**  
 Email To: **ELUCAS@SCSINCORP.COM**  
 Phone: **470 820 6176** Fax: \_\_\_\_\_  
 Requested Due Date: **Standard**

**Section B**  
 Requested Project Information:

Report To: **SCS Contacts**  
 Copy To: **Arcadis Contacts**  
 Test No: **YAT-DCR-ASSMT-202352**  
 Purchase Order #: \_\_\_\_\_  
 Project Name: **Plant Yates Pooled Upgrade/ren**  
 Project Number: \_\_\_\_\_

**Section C**  
 Invoice Information:

Attention: **Southern Co.**  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 POC Contact: \_\_\_\_\_  
 POC Project Manager: **Nicole D'Olivo**  
 POC Email #: **10940**

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -, ) Sample IDs must be unique	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyzes Test	Y/N	Residual Chlorine (Y/N)									
						START	END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other								
1	YAT-YGWA-47	Water	WT	WG	G				6	2	4	4																
2	YAT-GWA-2	Water	WT	WG	G				6	2	4	4																
3	YAT-YGWA-41	Water	WT	WG	G				6	2	4	4																
4	YAT-YGWA-51	Water	WT	WG	G				6	2	4	4																
5	YAT-YGWA-5D	Water	WT	WG	G				6	2	4	4																
6	YAT-YGWA-17S	Water	WT	WG	G				6	2	4	4																
7	YAT-YGWA-18S	Water	WT	WG	G				6	2	4	4																
8	YAT-YGWA-181	Water	WT	WG	G				6	2	4	4																
9	YAT-YGWA-20S	Water	WT	WG	G				6	2	4	4																
10	YAT-YGWA-211	Water	WT	WG	G				6	2	4	4																
11	YAT-YGWA-301	Water	WT	WG	G				6	2	4	4																
12	YAT-YGWA-14S	Water	WT	WG	G				6	2	4	4																

ACQUIRED BY/AFFILIATION: **Arcadis** DATE: **8/16/23** TIME: **0700**

ACCEPTED BY/AFFILIATION: **M. Williams Pa** DATE: **8/16/23** TIME: **0917**

SAMPLER NAME AND SIGNATURE: **Mike Swanson**

PRINT Name of SAMPLER: \_\_\_\_\_

SIGNATURE of SAMPLER: \_\_\_\_\_ DATE Signed: **8/16/23**

TEMP in C: \_\_\_\_\_

Received on Ice (Y/N): \_\_\_\_\_

Custody Sealed Cooler (Y/N): \_\_\_\_\_

Samples Intact (Y/N): \_\_\_\_\_





DC# Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92683124

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other:

PM: BV Due Date: 08/30/23 CLIENT: 92-GP-Yates

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 8/18/23 [initials]

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:

IR Gun ID:

230

Type of Ice:

wet  Blue  None

Cooler Temp:

2.3

Correction Factor: Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

2.3

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review:

Date: \_\_\_\_\_

Project Manager SRF Review:

Date: \_\_\_\_\_



DC#\_ Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO# : 92683124

Project #

PM: BV

Due Date: 08/30/23

CLIENT: 92-GP-Yates

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A** Required Client Information:  
 Company: GA Power  
 Address: Atlanta, GA  
 Email To: jaycocker@southernco.com  
 Phone: 470.620.6176 Fax  
 Requested Due Date: 8/15/13

**Section B** Required Project Information:  
 Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Task No: YAT-CCR-455MT-202392  
 Purchase Order #:   
 Project Name: Plant Vales Pooled Upgradation  
 Project Number:   
**Section C** Invoice Information:  
 Attention: Southern Co.  
 Company Name:   
 Address:   
 Pace Quote: #  
 Pace Project Manager: Monte Bester  
 Pace Profile #: 10840  
 Requested by: Ryan Dan  
 Date: 8/15/13

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique</small>	MATRIX <small>Drawing Water Waste Water Process Water Sewage Air Other Tissue</small>	CODE <small>WP WT PW SL CL WP AR OT TS</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Residual Chlorine (Y/N)										
						START DATE	END DATE					Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other									
1	YAT-YGWA-47			WG G							6 2																				
2	YAT-GWA-2			WG G							6 2																				
3	YAT-YGWA-41			WG G							6 2																				
4	YAT-YGWA-51			WG G							6 2																				
5	YAT-YGWA-5D			WG G							6 2																				
6	YAT-YGWA-17S			WG G							6 2																				
7	YAT-YGWA-1BS			WG G							6 2																				
8	YAT-YGWA-18I			WG G							6 2																				
9	YAT-YGWA-20S			WG G							6 2																				
10	YAT-YGWA-211			WG G							6 2																				
11	YAT-YGWA-30I			WG G							6 2																				
12	YAT-YGWA-14S			WG G							6 2																				

**ADDITIONAL COMMENTS:**

Antons Suite 300.0 (Cl, F, Sulfate)  
 App III Metals: Baton 60205, Ca 60100;  
 App III 60208: Zn, Ag, Ni, V  
 App IV: Metals 60208: Antimony (Sb), Arsenic (As), Barium (Ba),  
 Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb),  
 Lithium (Li), Molybdenum (Mo), Selenium (Se)  
 Zirconia, Mercury (Hg)

**RELINQUISHED BY / AFFILIATION:** Arcadis 8/15/13  
 Ryan W. Williams 8/16/13  
 Ryan W. Williams 8/16/13  
 Ryan W. Williams 8/16/13

**ACQUIRED BY / AFFILIATION:** Arcadis 8/15/13  
 Ryan W. Williams 8/16/13  
 Ryan W. Williams 8/16/13  
 Ryan W. Williams 8/16/13

**SAMPLER NAME AND SIGNATURE:** Jessica Ware  
 PRINT Name of SAMPLER: Jessica Ware  
 SIGNATURE of SAMPLER: Jessica Ware  
 DATE Signed: 8/15/13

**SAMPLE CONDITIONS:**  
 TEMP in C  
 Received on Ice (Y/N)  
 Custody Sealed Cooler (Y/N)  
 Samples Intact (Y/N)

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:

Company: **GA Power**  
 Address: **Atlanta, GA**  
 Email To: **blacker@scsllhnetpc.com**  
 Phone: **470 620 6176** Fax:  
 Requested Date: **8/15/13**

**Section B**  
Required Project Information:

Report To: **SCS Contacts**  
 Copy To: **Arcadis Contacts**  
 Test No.: **YAT-CDR-ASSMT-202332**  
 Purchase Order #: **Plant Yates Pooled Upgrade**  
 Project Name: **Plant Yates Pooled Upgrade**  
 Project Number:

**Section C**  
Invoice Information:

Attention: **Southern Co.**  
 Company Name:  
 Address:  
 State:  
 Zip:  
 Project Manager: **Micah D. Jones**  
 State Profile #: **10840**

Requesting Agency: **Georgia**  
 State/Location: **Georgia**

Page: **2** of **2**

ITEM #	SAMPLE ID One Character per box (A-Z, 0-9, /, -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analytes Test	Residual Chlorine (Y/N)		
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3			Methanol	Other
1	YAT-YGWA-39	WNG	G	8/15	1720		2										
2	YAT-YGWA-40	WNG	G	8/15	1720		2										
3	YAT-YGWA-11	WNG	G				2										
4	YAT-YGWA-1D	WNG	G				2										
5	YAT-YGWA-2I	WNG	G				2										
6	YAT-YGWA-3I	WNG	G				2										
7	YAT-YGWA-3D	WNG	G				2										
8																	
9																	
10																	
11																	
12																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACQUIRED BY / AFFILIATION	DATE	TIME	TEMP IN C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
App II Metals: Boron 60208, Ca 60100; App III Metals: Zn, Ag, Ni, V	<i>[Signature]</i>	8/15/13	1805	<i>[Signature]</i> Arcadis	8/15/13	1805				
App IV: Metals 60208: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Zirconium (Zr); Mercury (Hg)	<i>[Signature]</i> Arcadis	8/15/13	0907	<i>[Signature]</i> Ryan William Pen	8/15/13	0907				
	<i>[Signature]</i> Ryan William Pen	8/15/13	1115	<i>[Signature]</i> Charles Spalle	8/15/13	1115				

Sampler Name and Signature: *[Signature]*  
 PRINT Name of Sampler: *[Signature]*  
 SIGNATURE of Sampler: *[Signature]*  
 DATE signed: 8/15/13



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Knoxville

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: **92683124**

PM: BV

Due Date: 08/30/23

CLIENT: 92-GP-Yates

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: Y-17-23AY

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID: 230

Type of Ice:  Wet  Blue  None

Cooler Temp:

5.7 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.7

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	<u>WG</u>	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92683124

Project #

PM: BV

Due Date: 08/30/23

CLIENT: 92-GP-Yates

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
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**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:  
Company: GA Power  
Address: Atlanta, GA  
Email To: info@metlabs.com  
Phone: 470.620.8176  
Requested Due Date: 8/16/23

**Section B**  
Required Project Information:  
Report To: SCS Contacts  
Copy To: Arcadis Consultants  
Task No: YAT-CO2-ASSMT-2023B2  
Purchase Order #: 2023-08-001  
Project Name: Plant Yates Pooled Upgradation  
Project Number: 180849

**Section C**  
Invoice Information:  
Attention: Souffert Co.  
Company Name: GA Power  
Address: 1000 Peachtree St NE, Atlanta, GA 30309  
Pace Profile #: 180849

Page: 1 of 1

ITEM #	MATRIX Drinking Water Waters Waste Water Product Coolant Wine Air Other Tissue	CODE D/W WT WW P BL WP AR OT IT	KATRX CODE (see wld codes to lft)	SAMPLE TYPE (G-GRAS C-CONT)	COLLECTED		PRESERVATIVES				App II/H (ppysum only)	Received on (Y/N)	Custody (Y/N)	Sealed (Y/N)	Samples (Y/N)				
					START DATE TIME	END DATE TIME	# OF CONTAINERS	UNPRESERVED	H2SO4	HNO3						HCl	H2SO3	HNO2	H2SO5
	YAT-YGWA-17	W/G	G	G															
	YAT-GWA-2	W/G	G	G															
	YAT-YGWA-4	W/G	G	G															
	YAT-YGWA-91	W/G	G	G															
	YAT-YGWA-9D	W/G	G	G															
	YAT-YGWA-17S	W/G	G	G															
	YAT-YGWA-18S	W/G	G	G															
	YAT-YGWA-181	W/G	G	G															
	YAT-YGWA-20S	W/G	G	G															
	YAT-YGWA-211	W/G	G	G															
	YAT-YGWA-301	W/G	G	G															
	YAT-YGWA-14S	W/G	G	G															

9/17/23 08:53  
9/17/23 09:55  
9/17/23 12:54  
8/17/23 09:25  
8/19/23 12:54

Analysis Site: 300 0 (E. F. Souffert)  
App II Metals: Boron (BO), Ca (601ED),  
App II Metals: Zn, Pb, Ni, V

App II: Metals (SO): Arsenic (AS), Barium (BA),  
Beryllium (BE), Cadmium (CA), Chromium (CR), Cobalt (CO), Lead (PB),  
Lithium (LI), Manganese (MA), Selenium (SE)  
TODS: Mercury (HG)

INTERLUDE  
David Law William / Pa  
David Law William / Pa

DATE Signed: 8/16/23

Signature of Sampler: David Law



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92683124**

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

PM: BV Due Date: 08/30/23  
CLIENT: 92-GP-Yates

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2-17-23 AJ

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 230 Type of Ice:  Wet  Blue  None

Cooler Temp: 5.7 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun.

Cooler Temp Corrected (°C): 5.7

USDA Regulated Soil (  N/A, water sample)

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WG</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project # **WO# : 92683124**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

PM: BV Due Date: 08/30/23

\*\*Bottom half of box is to list number of bottles

CLIENT: 92-GP-Yates

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (p>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGJU-Wide-mouthed Glass jar Unpreserved	AG1LU-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
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**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

**Section A** Required Client Information:  
 Company: GA Power  
 Address: Atlanta, GA  
 Email To: gpow@ga.gov  
 Phone: 410.620.6176 Fax: \_\_\_\_\_  
 Requested Due Date: \_\_\_\_\_

**Section B** Required Project Information:  
 Report To: SCS Contacts  
 Copy To: Atradi's Contacts  
 Task No: YAT-CCR-ASSMT-2021382  
 Purchase Order #: \_\_\_\_\_  
 Project Name: Plant Yates Pooled Upgrader  
 Project Number: \_\_\_\_\_

**Section C** Invoicing Information:  
 Attention: Southern Co.  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 State: Georgia  
 City: \_\_\_\_\_  
 Zip: \_\_\_\_\_

ITEM #	MATRIX CODE (See table codes to left)	COLLECTED		SAMPLE TYPE (G-GRAB, C-COMP)	# OF CONTAINERS	PRESERVATIVES	App. INV. Meters (Co. Mark)	App. F. SQA	App. 254 (DC)	App. 251 (SP/sum only)	Temp in C	Packaged on (Y/N)	Ice (Y/N)	Quantity	Sealed	Cooled	Lined	Sampled (Y/N)	
		START DATE TIME	END DATE TIME																
YAT-YGWA-39	WVG G				6	Unpreserved	X	X	X	X									
YAT-YGWA-40	WVG G				6	Unpreserved	X	X	X	X									
YAT-YGWA-11	WVG G				6	Unpreserved	X	X	X	X									
YAT-YGWA-1D	WVG G				6	Unpreserved	X	X	X	X									
YAT-YGWA-21	WVG G				6	Unpreserved	X	X	X	X									
YAT-YGWA-31	WVG G				6	Unpreserved	X	X	X	X									
YAT-YGWA-3D	WVG G				6	Unpreserved	X	X	X	X									
<p><b>SAMPLE ID</b>                  One Character per box.                  (A-Z, 0-9, / -)</p> <p>Sample IDs must be unique</p>																			
<p><b>MATRIX</b>                  Drinking Water                  Waste Water                  Product                  Air                  Soil                  Sludge                  Other</p>																			
<p><b>CODE</b>                  DW                  WW                  P                  A                  S                  OT                  TS</p>																			
<p>Atlanta Suite 300.0 (Cl. F. Sulfate)                  App #1 Meter: Boren 60205, Ca 6040D;                  App #2 60206; Zn, Mg, Ni, V</p> <p>App #3: Metals 60208; Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Strontium (Sr)</p> <p>7040A: Mercury (Hg)</p>																			

PRINT Name of SAMPLER: (Across) \_\_\_\_\_  
 SIGNATURE of SAMPLER: (Across) [Signature]  
 DATE Signed: 8/11/23



September 14, 2023

Lauren Hartley  
Southern Company  
241 Ralph McGill Blvd NE  
Bin 10160  
Atlanta, GA 30308

RE: Project: Plant Yates Pooled Upgra- RADs  
Pace Project No.: 92683132

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between August 16, 2023 and August 17, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL  
Laura Midkiff, Southern Company  
Alex Simpson, Arcadis  
Becky Steever, Arcadis  
Jessica Ware, Arcadis  
Albert Zumbuhl, Arcadis



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



## CERTIFICATIONS

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

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### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

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## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.





### SAMPLE SUMMARY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92683132001	YAT-YGWA-1I	Water	08/15/23 13:45	08/16/23 09:07
92683132002	YAT-YGWA-1D	Water	08/15/23 11:20	08/16/23 09:07
92683132003	YAT-YGWA-2I	Water	08/15/23 15:45	08/16/23 09:07
92683132004	YAT-YGWA-3D	Water	08/15/23 17:10	08/16/23 09:07
92683132005	YAT-YGWA-4I	Water	08/15/23 12:25	08/16/23 09:07
92683132006	YAT-YGWA-5I	Water	08/15/23 10:20	08/16/23 09:07
92683132007	YAT-YGWA-5D	Water	08/15/23 11:13	08/16/23 09:07
92683132008	YAT-YGWA-18S	Water	08/15/23 11:35	08/16/23 09:07
92683132009	YAT-YGWA-18I	Water	08/15/23 15:40	08/16/23 09:07
92683132010	YAT-YGWA-14S	Water	08/15/23 17:30	08/16/23 09:07
92683132011	YAT-YGWA-47	Water	08/15/23 09:43	08/16/23 09:07
92683132012	YAT-GWA-2	Water	08/15/23 10:20	08/16/23 09:07
92683132013	YAT-YGWA-17S	Water	08/15/23 14:50	08/16/23 09:07
92683132014	YAT-YGWA-20S	Water	08/15/23 12:25	08/16/23 09:07
92683132015	YAT-YGWA-21I	Water	08/15/23 10:35	08/16/23 09:07
92683132016	YAT-YGWA-39	Water	08/15/23 16:11	08/16/23 09:07
92683132017	YAT-YGWA-40	Water	08/15/23 17:20	08/16/23 09:07
92683132018	YAT-YGWA-30I	Water	08/16/23 12:20	08/17/23 09:55
92683132019	YAT-YGWA-3I	Water	08/16/23 10:50	08/17/23 09:55

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92683132001	YAT-YGWA-1I	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132002	YAT-YGWA-1D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132003	YAT-YGWA-2I	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132004	YAT-YGWA-3D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132005	YAT-YGWA-4I	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132006	YAT-YGWA-5I	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132007	YAT-YGWA-5D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132008	YAT-YGWA-18S	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132009	YAT-YGWA-18I	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132010	YAT-YGWA-14S	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132011	YAT-YGWA-47	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132012	YAT-GWA-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132013	YAT-YGWA-17S	EPA 9315	SLC	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92683132014	YAT-YGWA-20S	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
92683132015	YAT-YGWA-21I	Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683132016	YAT-YGWA-39	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92683132017	YAT-YGWA-40	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
92683132018	YAT-YGWA-30I	Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683132019	YAT-YGWA-3I	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92683132001</b>	<b>YAT-YGWA-1I</b>					
EPA 9315	Radium-226	0.150U ± 0.130 (0.239) C:91% T:NA	pCi/L		09/08/23 13:11	
EPA 9320	Radium-228	0.576U ± 0.415 (0.817) C:80% T:89%	pCi/L		09/06/23 12:41	
Total Radium Calculation	Total Radium	0.726U ± 0.545 (1.06)	pCi/L		09/08/23 17:29	
<b>92683132002</b>	<b>YAT-YGWA-1D</b>					
EPA 9315	Radium-226	0.273U ± 0.177 (0.294) C:87% T:NA	pCi/L		09/08/23 13:11	
EPA 9320	Radium-228	0.662U ± 0.411 (0.782) C:82% T:95%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	0.935U ± 0.588 (1.08)	pCi/L		09/08/23 17:29	
<b>92683132003</b>	<b>YAT-YGWA-2I</b>					
EPA 9315	Radium-226	0.355 ± 0.194 (0.299) C:86% T:NA	pCi/L		09/08/23 13:11	
EPA 9320	Radium-228	0.256U ± 0.340 (0.726) C:85% T:87%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	0.611U ± 0.534 (1.03)	pCi/L		09/08/23 17:29	
<b>92683132004</b>	<b>YAT-YGWA-3D</b>					
EPA 9315	Radium-226	1.27 ± 0.349 (0.256) C:83% T:NA	pCi/L		09/08/23 13:11	
EPA 9320	Radium-228	1.52 ± 0.529 (0.765) C:83% T:87%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	2.79 ± 0.878 (1.02)	pCi/L		09/08/23 17:29	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92683132005</b>	<b>YAT-YGWA-4I</b>					
EPA 9315	Radium-226	0.684 ± 0.241 (0.237) C:89% T:NA	pCi/L		09/08/23 13:12	
EPA 9320	Radium-228	0.456U ± 0.389 (0.790) C:86% T:88%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	1.14 ± 0.630 (1.03)	pCi/L		09/08/23 17:29	
<b>92683132006</b>	<b>YAT-YGWA-5I</b>					
EPA 9315	Radium-226	0.0709U ± 0.127 (0.288) C:79% T:NA	pCi/L		09/08/23 13:12	
EPA 9320	Radium-228	0.775 ± 0.405 (0.729) C:85% T:94%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	0.846U ± 0.532 (1.02)	pCi/L		09/08/23 17:29	
<b>92683132007</b>	<b>YAT-YGWA-5D</b>					
EPA 9315	Radium-226	2.44 ± 0.525 (0.265) C:85% T:NA	pCi/L		09/08/23 13:12	
EPA 9320	Radium-228	0.995 ± 0.414 (0.664) C:83% T:93%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	3.44 ± 0.939 (0.929)	pCi/L		09/08/23 17:29	
<b>92683132008</b>	<b>YAT-YGWA-18S</b>					
EPA 9315	Radium-226	-0.00970U ± 0.121 (0.326) C:84% T:NA	pCi/L		09/08/23 13:12	
EPA 9320	Radium-228	0.347U ± 0.345 (0.713) C:84% T:92%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	0.347U ± 0.466 (1.04)	pCi/L		09/08/23 17:29	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92683132009</b>	<b>YAT-YGWA-18I</b>					
EPA 9315	Radium-226	0.108U ± 0.121 (0.245) C:93% T:NA	pCi/L		09/08/23 13:12	
EPA 9320	Radium-228	0.547U ± 0.432 (0.862) C:78% T:87%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	0.655U ± 0.553 (1.11)	pCi/L		09/08/23 17:29	
<b>92683132010</b>	<b>YAT-YGWA-14S</b>					
EPA 9315	Radium-226	0.0870U ± 0.121 (0.259) C:82% T:NA	pCi/L		09/08/23 13:12	
EPA 9320	Radium-228	0.565U ± 0.353 (0.665) C:84% T:95%	pCi/L		09/06/23 15:50	
Total Radium Calculation	Total Radium	0.652U ± 0.474 (0.924)	pCi/L		09/08/23 17:29	
<b>92683132011</b>	<b>YAT-YGWA-47</b>					
EPA 9315	Radium-226	0.502 ± 0.236 (0.326) C:73% T:NA	pCi/L		09/08/23 13:08	
EPA 9320	Radium-228	0.445U ± 0.356 (0.711) C:85% T:89%	pCi/L		09/06/23 15:50	
Total Radium Calculation	Total Radium	0.947U ± 0.592 (1.04)	pCi/L		09/08/23 17:29	
<b>92683132012</b>	<b>YAT-GWA-2</b>					
EPA 9315	Radium-226	0.230U ± 0.166 (0.285) C:77% T:NA	pCi/L		09/08/23 13:09	
EPA 9320	Radium-228	0.603U ± 0.352 (0.631) C:85% T:82%	pCi/L		09/06/23 15:46	
Total Radium Calculation	Total Radium	0.833U ± 0.518 (0.916)	pCi/L		09/08/23 17:29	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92683132013</b>	<b>YAT-YGWA-17S</b>					
EPA 9315	Radium-226	-0.125U ± 0.202 (0.646)	pCi/L		09/12/23 18:20	
EPA 9320	Radium-228	C:89% T:NA 0.0388U ± 0.250 (0.579)	pCi/L		09/06/23 15:47	
Total Radium Calculation	Total Radium	C:84% T:90% 0.0388U ± 0.452 (1.23)	pCi/L		09/13/23 14:27	
<b>92683132014</b>	<b>YAT-YGWA-20S</b>					
EPA 9315	Radium-226	0.0694U ± 0.199 (0.482)	pCi/L		09/13/23 08:26	
EPA 9320	Radium-228	C:94% T:NA 0.0952U ± 0.357 (0.807)	pCi/L		09/06/23 15:47	
Total Radium Calculation	Total Radium	C:80% T:89% 0.165U ± 0.556 (1.29)	pCi/L		09/13/23 14:27	
<b>92683132015</b>	<b>YAT-YGWA-21I</b>					
EPA 9315	Radium-226	0.608 ± 0.351 (0.537)	pCi/L		09/13/23 08:28	
EPA 9320	Radium-228	C:86% T:NA 1.07 ± 0.492 (0.853)	pCi/L		09/06/23 15:47	
Total Radium Calculation	Total Radium	C:84% T:88% 1.68 ± 0.843 (1.39)	pCi/L		09/13/23 14:27	
<b>92683132016</b>	<b>YAT-YGWA-39</b>					
EPA 9315	Radium-226	0.441U ± 0.299 (0.494)	pCi/L		09/13/23 10:02	
EPA 9320	Radium-228	C:90% T:NA 0.167U ± 0.308 (0.676)	pCi/L		09/06/23 15:48	
Total Radium Calculation	Total Radium	C:85% T:92% 0.608U ± 0.607 (1.17)	pCi/L		09/13/23 14:27	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92683132017</b>	<b>YAT-YGWA-40</b>					
EPA 9315	Radium-226	0.325U ± 0.300 (0.580)	pCi/L		09/13/23 10:02	
EPA 9320	Radium-228	C:84% T:NA -0.0884U ± 0.244 (0.597)	pCi/L		09/06/23 15:48	
Total Radium Calculation	Total Radium	C:86% T:91% 0.325U ± 0.544 (1.18)	pCi/L		09/13/23 14:27	
<b>92683132018</b>	<b>YAT-YGWA-30I</b>					
EPA 9315	Radium-226	0.218U ± 0.283 (0.590)	pCi/L		09/13/23 13:31	
EPA 9320	Radium-228	C:86% T:NA 0.677U ± 0.409 (0.777)	pCi/L		09/08/23 11:52	
Total Radium Calculation	Total Radium	C:82% T:91% 0.895U ± 0.692 (1.37)	pCi/L		09/13/23 15:34	
<b>92683132019</b>	<b>YAT-YGWA-3I</b>					
EPA 9315	Radium-226	1.00 ± 0.537 (0.830)	pCi/L		09/13/23 13:31	
EPA 9320	Radium-228	C:82% T:NA 0.868 ± 0.395 (0.664)	pCi/L		09/08/23 11:52	
Total Radium Calculation	Total Radium	C:85% T:87% 1.87 ± 0.932 (1.49)	pCi/L		09/13/23 15:34	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-11</b> <b>Lab ID: 92683132001</b> Collected: 08/15/23 13:45      Received: 08/16/23 09:07      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.150U ± 0.130 (0.239)</b> <b>C:91% T:NA</b>	pCi/L	09/08/23 13:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.576U ± 0.415 (0.817)</b> <b>C:80% T:89%</b>	pCi/L	09/06/23 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.726U ± 0.545 (1.06)</b>	pCi/L	09/08/23 17:29	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

<b>Sample:</b> YAT-YGWA-1D	<b>Lab ID:</b> 92683132002	Collected: 08/15/23 11:20	Received: 08/16/23 09:07	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.273U ± 0.177 (0.294)</b> <b>C:87% T:NA</b>	pCi/L	09/08/23 13:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.662U ± 0.411 (0.782)</b> <b>C:82% T:95%</b>	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.935U ± 0.588 (1.08)</b>	pCi/L	09/08/23 17:29	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-2I</b> <b>Lab ID: 92683132003</b> Collected: 08/15/23 15:45      Received: 08/16/23 09:07      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.355 ± 0.194 (0.299)</b> <b>C:86% T:NA</b>	pCi/L	09/08/23 13:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.256U ± 0.340 (0.726)</b> <b>C:85% T:87%</b>	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.611U ± 0.534 (1.03)</b>	pCi/L	09/08/23 17:29	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-3D</b> <b>Lab ID: 92683132004</b> Collected: 08/15/23 17:10      Received: 08/16/23 09:07      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>1.27 ± 0.349 (0.256)</b> <b>C:83% T:NA</b>	pCi/L	09/08/23 13:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.52 ± 0.529 (0.765)</b> <b>C:83% T:87%</b>	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.79 ± 0.878 (1.02)</b>	pCi/L	09/08/23 17:29	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-4I</b> <b>Lab ID: 92683132005</b> Collected: 08/15/23 12:25      Received: 08/16/23 09:07      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.684 ± 0.241 (0.237)</b> <b>C:89% T:NA</b>	pCi/L	09/08/23 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.456U ± 0.389 (0.790)</b> <b>C:86% T:88%</b>	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.14 ± 0.630 (1.03)</b>	pCi/L	09/08/23 17:29	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-5I</b> <b>Lab ID: 92683132006</b> Collected: 08/15/23 10:20      Received: 08/16/23 09:07      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0709U ± 0.127 (0.288)</b> <b>C:79% T:NA</b>	pCi/L	09/08/23 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.775 ± 0.405 (0.729)</b> <b>C:85% T:94%</b>	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.846U ± 0.532 (1.02)</b>	pCi/L	09/08/23 17:29	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-5D</b> <b>Lab ID: 92683132007</b> Collected: 08/15/23 11:13      Received: 08/16/23 09:07      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>2.44 ± 0.525 (0.265)</b> C:85% T:NA	pCi/L	09/08/23 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.995 ± 0.414 (0.664)</b> C:83% T:93%	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>3.44 ± 0.939 (0.929)</b>	pCi/L	09/08/23 17:29	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

**Sample: YAT-YGWA-18S**      **Lab ID: 92683132008**      Collected: 08/15/23 11:35      Received: 08/16/23 09:07      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.00970U ± 0.121 (0.326)</b> <b>C:84% T:NA</b>	pCi/L	09/08/23 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.347U ± 0.345 (0.713)</b> <b>C:84% T:92%</b>	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.347U ± 0.466 (1.04)</b>	pCi/L	09/08/23 17:29	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

**Sample: YAT-YGWA-181**      **Lab ID: 92683132009**      Collected: 08/15/23 15:40      Received: 08/16/23 09:07      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.108U ± 0.121 (0.245)</b> <b>C:93% T:NA</b>	pCi/L	09/08/23 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.547U ± 0.432 (0.862)</b> <b>C:78% T:87%</b>	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.655U ± 0.553 (1.11)</b>	pCi/L	09/08/23 17:29	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

**Sample: YAT-YGWA-14S**      **Lab ID: 92683132010**      Collected: 08/15/23 17:30      Received: 08/16/23 09:07      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0870U ± 0.121 (0.259)</b> <b>C:82% T:NA</b>	pCi/L	09/08/23 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.565U ± 0.353 (0.665)</b> <b>C:84% T:95%</b>	pCi/L	09/06/23 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.652U ± 0.474 (0.924)</b>	pCi/L	09/08/23 17:29	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

**Sample: YAT-YGWA-47**      **Lab ID: 92683132011**      Collected: 08/15/23 09:43      Received: 08/16/23 09:07      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.502 ± 0.236 (0.326)</b> <b>C:73% T:NA</b>	pCi/L	09/08/23 13:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.445U ± 0.356 (0.711)</b> <b>C:85% T:89%</b>	pCi/L	09/06/23 15:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.947U ± 0.592 (1.04)</b>	pCi/L	09/08/23 17:29	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

**Sample: YAT-GWA-2**      **Lab ID: 92683132012**      Collected: 08/15/23 10:20      Received: 08/16/23 09:07      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.230U ± 0.166 (0.285)</b> <b>C:77% T:NA</b>	pCi/L	09/08/23 13:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.603U ± 0.352 (0.631)</b> <b>C:85% T:82%</b>	pCi/L	09/06/23 15:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.833U ± 0.518 (0.916)</b>	pCi/L	09/08/23 17:29	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

**Sample: YAT-YGWA-17S**      **Lab ID: 92683132013**      Collected: 08/15/23 14:50      Received: 08/16/23 09:07      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.125U ± 0.202 (0.646)</b> <b>C:89% T:NA</b>	pCi/L	09/12/23 18:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0388U ± 0.250 (0.579)</b> <b>C:84% T:90%</b>	pCi/L	09/06/23 15:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.0388U ± 0.452 (1.23)</b>	pCi/L	09/13/23 14:27	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

**Sample: YAT-YGWA-20S**      **Lab ID: 92683132014**      Collected: 08/15/23 12:25      Received: 08/16/23 09:07      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0694U ± 0.199 (0.482)</b> <b>C:94% T:NA</b>	pCi/L	09/13/23 08:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0952U ± 0.357 (0.807)</b> <b>C:80% T:89%</b>	pCi/L	09/06/23 15:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.165U ± 0.556 (1.29)</b>	pCi/L	09/13/23 14:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

**Sample: YAT-YGWA-211**      **Lab ID: 92683132015**      Collected: 08/15/23 10:35      Received: 08/16/23 09:07      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.608 ± 0.351 (0.537)</b> <b>C:86% T:NA</b>	pCi/L	09/13/23 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.07 ± 0.492 (0.853)</b> <b>C:84% T:88%</b>	pCi/L	09/06/23 15:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.68 ± 0.843 (1.39)</b>	pCi/L	09/13/23 14:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

**Sample: YAT-YGWA-39**      **Lab ID: 92683132016**      Collected: 08/15/23 16:11      Received: 08/16/23 09:07      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.441U ± 0.299 (0.494)</b> <b>C:90% T:NA</b>	pCi/L	09/13/23 10:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.167U ± 0.308 (0.676)</b> <b>C:85% T:92%</b>	pCi/L	09/06/23 15:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.608U ± 0.607 (1.17)</b>	pCi/L	09/13/23 14:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

**Sample: YAT-YGWA-40**      **Lab ID: 92683132017**      Collected: 08/15/23 17:20      Received: 08/16/23 09:07      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.325U ± 0.300 (0.580)</b> <b>C:84% T:NA</b>	pCi/L	09/13/23 10:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.0884U ± 0.244 (0.597)</b> <b>C:86% T:91%</b>	pCi/L	09/06/23 15:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.325U ± 0.544 (1.18)</b>	pCi/L	09/13/23 14:27	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

**Sample: YAT-YGWA-301**      **Lab ID: 92683132018**      Collected: 08/16/23 12:20      Received: 08/17/23 09:55      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.218U ± 0.283 (0.590)</b> <b>C:86% T:NA</b>	pCi/L	09/13/23 13:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.677U ± 0.409 (0.777)</b> <b>C:82% T:91%</b>	pCi/L	09/08/23 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.895U ± 0.692 (1.37)</b>	pCi/L	09/13/23 15:34	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-3I</b> <b>Lab ID: 92683132019</b> Collected: 08/16/23 10:50      Received: 08/17/23 09:55      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>1.00 ± 0.537 (0.830)</b> <b>C:82% T:NA</b>	pCi/L	09/13/23 13:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.868 ± 0.395 (0.664)</b> <b>C:85% T:87%</b>	pCi/L	09/08/23 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.87 ± 0.932 (1.49)</b>	pCi/L	09/13/23 15:34	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

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QC Batch:	611649	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92683132001, 92683132002, 92683132003, 92683132004, 92683132005, 92683132006, 92683132007, 92683132008, 92683132009, 92683132010, 92683132011, 92683132012

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METHOD BLANK:	2977146	Matrix:	Water
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Associated Lab Samples: 92683132001, 92683132002, 92683132003, 92683132004, 92683132005, 92683132006, 92683132007, 92683132008, 92683132009, 92683132010, 92683132011, 92683132012

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Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.101 ± 0.125 (0.261) C:93% T:NA	pCi/L	09/08/23 11:33	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

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QC Batch:	611584	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92683132001, 92683132002, 92683132003, 92683132004, 92683132005, 92683132006, 92683132007, 92683132008, 92683132009

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METHOD BLANK:	2976835	Matrix:	Water
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Associated Lab Samples: 92683132001, 92683132002, 92683132003, 92683132004, 92683132005, 92683132006, 92683132007, 92683132008, 92683132009

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Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.100 ± 0.312 (0.703) C:75% T:95%	pCi/L	09/06/23 12:40	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

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QC Batch:	611586	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92683132010, 92683132011, 92683132012, 92683132013, 92683132014, 92683132015, 92683132016, 92683132017

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METHOD BLANK: 2976847 Matrix: Water

Associated Lab Samples: 92683132010, 92683132011, 92683132012, 92683132013, 92683132014, 92683132015, 92683132016, 92683132017

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Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.830 ± 0.342 (0.491) C:81% T:89%	pCi/L	09/06/23 15:45	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

QC Batch: 612656

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92683132018, 92683132019

METHOD BLANK: 2982190

Matrix: Water

Associated Lab Samples: 92683132018, 92683132019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.438 ± 0.430 (0.847) C:79% T:NA	pCi/L	09/13/23 13:30	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

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QC Batch:	612651	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92683132013, 92683132014, 92683132015, 92683132016, 92683132017

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METHOD BLANK: 2982186 Matrix: Water

Associated Lab Samples: 92683132013, 92683132014, 92683132015, 92683132016, 92683132017

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Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.199 ± 0.286 (0.622) C:88% T:NA	pCi/L	09/12/23 18:19	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

QC Batch: 611590

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92683132018, 92683132019

METHOD BLANK: 2976857

Matrix: Water

Associated Lab Samples: 92683132018, 92683132019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0613 ± 0.274 (0.661) C:83% T:83%	pCi/L	09/08/23 11:54	

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## QUALIFIERS

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683132001	YAT-YGWA-1I	EPA 9315	611649		
92683132002	YAT-YGWA-1D	EPA 9315	611649		
92683132003	YAT-YGWA-2I	EPA 9315	611649		
92683132004	YAT-YGWA-3D	EPA 9315	611649		
92683132005	YAT-YGWA-4I	EPA 9315	611649		
92683132006	YAT-YGWA-5I	EPA 9315	611649		
92683132007	YAT-YGWA-5D	EPA 9315	611649		
92683132008	YAT-YGWA-18S	EPA 9315	611649		
92683132009	YAT-YGWA-18I	EPA 9315	611649		
92683132010	YAT-YGWA-14S	EPA 9315	611649		
92683132011	YAT-YGWA-47	EPA 9315	611649		
92683132012	YAT-GWA-2	EPA 9315	611649		
92683132013	YAT-YGWA-17S	EPA 9315	612651		
92683132014	YAT-YGWA-20S	EPA 9315	612651		
92683132015	YAT-YGWA-21I	EPA 9315	612651		
92683132016	YAT-YGWA-39	EPA 9315	612651		
92683132017	YAT-YGWA-40	EPA 9315	612651		
92683132018	YAT-YGWA-30I	EPA 9315	612656		
92683132019	YAT-YGWA-3I	EPA 9315	612656		
92683132001	YAT-YGWA-1I	EPA 9320	611584		
92683132002	YAT-YGWA-1D	EPA 9320	611584		
92683132003	YAT-YGWA-2I	EPA 9320	611584		
92683132004	YAT-YGWA-3D	EPA 9320	611584		
92683132005	YAT-YGWA-4I	EPA 9320	611584		
92683132006	YAT-YGWA-5I	EPA 9320	611584		
92683132007	YAT-YGWA-5D	EPA 9320	611584		
92683132008	YAT-YGWA-18S	EPA 9320	611584		
92683132009	YAT-YGWA-18I	EPA 9320	611584		
92683132010	YAT-YGWA-14S	EPA 9320	611586		
92683132011	YAT-YGWA-47	EPA 9320	611586		
92683132012	YAT-GWA-2	EPA 9320	611586		
92683132013	YAT-YGWA-17S	EPA 9320	611586		
92683132014	YAT-YGWA-20S	EPA 9320	611586		
92683132015	YAT-YGWA-21I	EPA 9320	611586		
92683132016	YAT-YGWA-39	EPA 9320	611586		
92683132017	YAT-YGWA-40	EPA 9320	611586		
92683132018	YAT-YGWA-30I	EPA 9320	611590		
92683132019	YAT-YGWA-3I	EPA 9320	611590		
92683132001	YAT-YGWA-1I	Total Radium Calculation	614334		
92683132002	YAT-YGWA-1D	Total Radium Calculation	614334		
92683132003	YAT-YGWA-2I	Total Radium Calculation	614334		
92683132004	YAT-YGWA-3D	Total Radium Calculation	614334		
92683132005	YAT-YGWA-4I	Total Radium Calculation	614334		
92683132006	YAT-YGWA-5I	Total Radium Calculation	614334		
92683132007	YAT-YGWA-5D	Total Radium Calculation	614334		
92683132008	YAT-YGWA-18S	Total Radium Calculation	614334		

### REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgra- RADs

Pace Project No.: 92683132

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683132009	YAT-YGWA-18I	Total Radium Calculation	614334		
92683132010	YAT-YGWA-14S	Total Radium Calculation	614334		
92683132011	YAT-YGWA-47	Total Radium Calculation	614334		
92683132012	YAT-GWA-2	Total Radium Calculation	614334		
92683132013	YAT-YGWA-17S	Total Radium Calculation	615223		
92683132014	YAT-YGWA-20S	Total Radium Calculation	615223		
92683132015	YAT-YGWA-21I	Total Radium Calculation	615223		
92683132016	YAT-YGWA-39	Total Radium Calculation	615223		
92683132017	YAT-YGWA-40	Total Radium Calculation	615223		
92683132018	YAT-YGWA-30I	Total Radium Calculation	615249		
92683132019	YAT-YGWA-3I	Total Radium Calculation	615249		

### REPORT OF LABORATORY ANALYSIS

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DC# Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

*G.A. Power*

Project #:

WO#: 92683132



92683132

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *8/14/23*  
*Coiff*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: *230*

Type of Ice:  Wet  Blue  None

Cooler Temp: *2.3* Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *2.3*

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	<i>W</i>	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_





Effective Date: 11/14/2022

WO#: 92683132

Project #

PM: BV

Due Date: 09/07/23

CLIENT: 92-GP-Yates

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

<b>Section A</b> Requested Client Information:		<b>Section B</b> Requested Project Information:		<b>Section C</b> Invoice Information:	
Company: <b>GA Power</b>	Address: <b>Atlanta, GA</b>	Report To: <b>SCS Contacts</b>	Copy To: <b>Arcadis Contacts</b>	Attention: <b>Southern Co.</b>	Company Name:
Phone: <b>470 620 8176</b>	Requested Date: <b>Standard</b>	Test No.: <b>YAT-DCR-ASSUR-212252</b>	Purchase Order #: <b>Plant Yates Pooled Upgradient</b>	Address:	Project Name:
Email To: <b>bluock@scscontacts.com</b>		Project Number:		Page Quote:	Page Project Manager: <b>Nicole Steyer</b>
Matrix: <b>One Character per box. Sample ids must be unique</b>		Matrix Code (see valid codes to left)		Page Profile #: <b>10840</b>	Responsible Analytical Filtered (Y/N)

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSIS TEST	Residual Chlorine (Y/N)			
			START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other		
1	YAT-YGWA-39	WGC G				6	2	4	4								
2	YAT-YGWA-40	WGC G				6	2	4	4								
3	YAT-YGWA-11	WGC G				6	2	4	4								
4	YAT-YGWA-1D	WGC G				6	2	4	4								
5	YAT-YGWA-21	WGC G				6	2	4	4								
6	YAT-YGWA-31	WGC G				6	2	4	4								
7	YAT-YGWA-3D	WGC G				6	2	4	4								
8																	
9																	
10																	
11																	
12																	

<b>ADDITIONAL COMMENTS</b>		<b>RELINQUISHED BY / AFFILIATION</b>		<b>ACCEPTED BY / AFFILIATION</b>		<b>SAMPLE CONDITIONS</b>	
Antons Suite 300 0 (Cl, F, Sulfate)		Arcadis		Arcadis		Received on Ice (Y/N)	
App II Metals: Barium 60208; Ca 60100; App III 60208; Zn, Pb, Ni, V		8/15/23		8/15/23		Custody Sealed Cooler (Y/N)	
App IV: Metals 60208; Antimony (Sb), Arsenic (As), Barium (Ba), Benzene (Ba), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) TOXDA: Mercury (Hg)		Lynna Williams / Inc		Lynna Williams / Inc		Samples Intact (Y/N)	
SAMPLER NAME AND SIGNATURE		PRINT NAME OF SAMPLER		SIGNATURE OF SAMPLER		DATE SIGNED	
David Truitt		David Truitt		David Truitt		8/15/23	



DC#\_ Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta

Sample Condition Upon Receipt

Client Name:

*GA Power*

Project #: **WO# : 92683132**

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_

PM: BV Due Date: 09/07/23  
CLIENT: 92-GP-Yates

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *8/14/23*  
*COB*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:

IR Gun ID: *230*

Type of Ice:  Wet  Blue  None

Cooler Temp: *2.3*

Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *2.3*

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



Effective Date: 11/14/2022

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO#: 92683132

PM: BV

Due Date: 09/07/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 92-GP-Yates

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A  
 Required Client Information:  
 Company: GA Power  
 Address: Atlanta, GA  
 Email To: bruce@ga-power.com  
 Phone: 470.820.6176  
 Requested Due Date: 8/10/23

Section B  
 Required Project Information:  
 Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Plant No.: VAT-COR-ASSHT-202332  
 Purchase Order #: Plant Yates Pooled Upgradation  
 Project Name: Plant Yates Pooled Upgradation  
 Project Number: 10840

Section C  
 Invoice Information:  
 Attention: Southern Co.  
 Company Name:  
 Address:  
 Project Manager: Nicole Power  
 Project Name: Boval  
 Project Profile #: 10840

Page: 1 of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSES TEST	Y/N	RESIDUAL CHLORINE (Y/N)			
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other		
1	VAT-YGWA-47	WIG G	G	8/10/23	1730	-	2													
2	VAT-GWA-2	WIG G	G	8/10/23	1725	-	2													
3	VAT-YGWA-41	WIG G	G	8/10/23	1725	-	2													
4	VAT-YGWA-51	WIG G	G	8/10/23	1725	-	2													
5	VAT-YGWA-5D	WIG G	G	8/10/23	1730	-	2													
6	VAT-YGWA-17S	WIG G	G	8/10/23	1730	-	2													
7	VAT-YGWA-18S	WIG G	G	8/10/23	1730	-	2													
8	VAT-YGWA-18I	WIG G	G	8/10/23	1730	-	2													
9	VAT-YGWA-20S	WIG G	G	8/10/23	1730	-	2													
10	VAT-YGWA-21I	WIG G	G	8/10/23	1730	-	2													
11	VAT-YGWA-30I	WIG G	G	8/10/23	1730	-	2													
12	VAT-YGWA-14S	WIG G	G	8/10/23	1730	-	2													

ADDITIONAL COMMENTS:  
 Anderson Suite 300D (Cl. F. Sulfate)  
 App III Metals: Barton 60208, Ca 60100.  
 App III 60208: Zn, Pb, Ni, V  
 App IV: Metals 60298: Antimony (SB), Arsenic (AS), Barium (BA), Beryllium (BE), Cadmium (CD), Chromium (CR), Cobalt (CO), Lead (PB), Lithium (LI), Manganese (MN), Selenium (SE)  
 7040A: Mercury (HG)

RELINQUISHED BY / APPLICATION: W. Williams DATE: 8/10/23 TIME: 0755

ACCEPTED BY / APPLICATION: W. Williams DATE: 8/10/23 TIME: 0757

SAMPLER NAME AND SIGNATURE: W. Williams

PRINT NAME OF SAMPLER: W. Williams

SIGNATURE OF SAMPLER: W. Williams

DATE SIGNED: 8/10/23

TEMP IN C: \_\_\_\_\_

Received on Ice (Y/N): \_\_\_\_\_

Custody Sealed Cooler (Y/N): \_\_\_\_\_

Samples Intact (Y/N): \_\_\_\_\_



DOC#\_TITLE: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

*GA Power*

Project #:

WO#: 92683132

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

PM: BV Due Date: 09/07/23  
CLIENT: 92-GP-Yates

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *8/14/23*  
*COA*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:

IR Gun ID:

*230*

Type of Ice:

wet  Blue  None

Cooler Temp:

*2.3*

Correction Factor: Add/Subtract (°C)

*0.0*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

*2.3*

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



Effective Date: 11/14/2022

WO#: 92683132

PM: BV

Due Date: 09/07/23

CLIENT: 92-GP-Yates

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP9R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
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11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
Requested Client Information:		Requested Project Information:		Invoice Information:	
Company: GA Power	Address: Atlanta, GA	Report To: SCS Contacts	Copy To: AICAD's Contacts	Attention: Southern Co.	Company Name:
Phone: 470.620.8176	Fax: 470.620.8176	Task No.: YAT-CCR-ASSMT-202352	Purchase Order #: Plant Yates Pooled Upgradient	Address:	Page Order:
Requested Due Date: <u>11/15/23</u>		Project Name:	Project Number:	Face Project Manager: <u>Alfred Greco</u>	Face Project #: <u>10840</u>
				Requester: <u>Wade</u>	Requester Address: <u>Georgia</u>

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, -, ) Sample IDs must be unique</small>	MATRIX <small>DWY Drinking Water WVW Waste Water P Process S Sludge A Air O Other T Tissue</small>	CODE <small>DWY WVW P S A O T</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES						ANALYSES TEST	RESIDUAL CHLORINE (Y/N)				
				START DATE	END DATE		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3			Methanol	Other		
1	YAT-YGWA-47			DATE	TIME	DATE	TIME	6	2	4								
2	YAT-GWA-2			8/15/2019	4:33			6	2	4								
3	YAT-YGWA-41							6	2	4								
4	YAT-YGWA-51							6	2	4								
5	YAT-YGWA-5D							6	2	4								
6	YAT-YGWA-17S							6	2	4								
7	YAT-YGWA-18S							6	2	4								
8	YAT-YGWA-18I							6	2	4								
9	YAT-YGWA-20S							6	2	4								
10	YAT-YGWA-21I							6	2	4								
11	YAT-YGWA-30I							6	2	4								
12	YAT-YGWA-14S							6	2	4								

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		LABILE CONDITIONS	
Arbors Suite 300.0 (Cl. F. Sullivan)		Mark Chest		8/16/23		0507		Ryan William Par		8/16/23		0967			
App III Metals: Barium (Ba), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Vanadium (V), Mercury (Hg)		Ryan William Par		8/16/23		1115		Ryan William Par		8/16/23		1115			
App IV: Arsenic (As), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Vanadium (V), Mercury (Hg)		Mark Chest		8/16/23		0507		Ryan William Par		8/16/23		0967			
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER		DATE Signed											
		Mark Chest		8/16/23											
		SIGNATURE													
		<i>[Signature]</i>													



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Knoxville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92683132**

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

PM: BV Due Date: 09/07/23  
CLIENT: 92-GP-Yates

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 8/14/23  
GA

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 230

Type of Ice:  Wet  Blue  None

Cooler Temp: 2.3 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.3

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix:	<u>W</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

**WO# : 92683132**

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project :

PM: BV

Due Date: 09/07/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 92-GP-Yates

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WG7U-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																													
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12																													

**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: GA Power Address: Atlanta GA

Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Task No: VAT-COR-ASSMT-202352 Purchase Order #: VAT-COR-ASSMT-202352 Project Name: Plant Yates Pooled Upgrades Project Number: 10840

Section C Invoice Information: Attention: Southern Co. Company Name: Southern Co. Address: Pace Project Manager: Nicole D'Onofrio Pace Profile #: 10840

Page: 1 of 1

ITEM #	SAMPLE ID	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Residual Chlorine (Y/N)					
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other				
1	YAT-YGWA-47	Drinking Water	DW	8/16/23	0900	6	2	4													
2	YAT-GWA-2	Water	WT	8/16/23	0900	6	2	4													
3	YAT-YGWA-41	Water	WW	8/16/23	0907	6	2	4													
4	YAT-YGWA-51	Water	WW	8/16/23	0915	6	2	4													
5	YAT-YGWA-5D	Water	WW	8/16/23	0917	6	2	4													
6	YAT-YGWA-17S	Water	WW	8/16/23	0917	6	2	4													
7	YAT-YGWA-18S	Water	WW	8/16/23	0917	6	2	4													
8	YAT-YGWA-18I	Water	WW	8/16/23	0917	6	2	4													
9	YAT-YGWA-20S	Water	WW	8/16/23	0917	6	2	4													
10	YAT-YGWA-21I	Water	WW	8/16/23	0917	6	2	4													
11	YAT-YGWA-30I	Water	WW	8/16/23	0917	6	2	4													
12	YAT-YGWA-14S	Water	WW	8/16/23	0917	6	2	4													

ADDITIONAL COMMENTS: Antons Sule 300.0 (Cl, F, Sulfate)

App III Metals: Boron 60208 Ca 60100: App III 60208 Zn, Ag, Ni, V

App IV: Metals 60208: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Toluene, Mercury (Hg)

RELINQUISHED BY / AFFILIATION: Ryan Williams / Pace

DATE: 8/16/23

TIME: 0900

ACCEPTED BY / AFFILIATION: Nicole D'Onofrio / Pace

DATE: 8/16/23

TIME: 0900

SAMPLER NAME AND SIGNATURE: Mike Swanson

PRINT NAME OF SAMPLER: Mike Swanson

SIGNATURE OF SAMPLER: [Signature]

DATE SIGNED: 8/16/23

TEMP IN C: \_\_\_\_\_

Received on Ice (Y/N): \_\_\_\_\_

Cooler Sealed (Y/N): \_\_\_\_\_

Samples Intact (Y/N): \_\_\_\_\_



UC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Knoxville

Sample Condition Upon Receipt

Client Name:

*GA Power*

Project #:

WO#: 92683132

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other:

PM: BV Due Date: 09/07/23  
CLIENT: 92-GP-Yates

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *8/14/23*  
*[Signature]*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:

IR Gun ID:

*230*

Type of Ice:  wet  Blue  None

Cooler Temp:

*2.3*

Correction Factor: Add/Subtract (°C)

*0.0*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

*2.3*

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

WO#: 92683132

PM: BV

Due Date: 09/07/23

CLIENT: 92-GP-Yates

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	GA Power	Report To:	SOS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	ARCADIS CONTACT	Company Name:	
Email To:	jaurocker@southernco.com	Task No.:	YAT-CR-ASSMT-202392	Address:	
Phone:	470.620.6176	Purchase Order #:		Pass Order:	
Requested Due Date:	Standard	Project Name:	Plant Yates Pooled Upgradient	Pass Project Manager:	Alexis Bickel
		Project Number:		Pass Profile #:	10840

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, -, /) Sample IDs must be unique</small>	MATRIX <small>Drawing Water Surface Water Wells Water Product Soil Sludge Air Other Tissue</small>	CODE <small>SW WW PW P SL CL WSP AR OT TS</small>	COLLECTED			SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSES TEST	RESIDUAL CHLORINE (Y/N)	REMARKS	
				START DATE	START TIME	END DATE		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
1	YAT-YGWA-47																	
2	YAT-GWA-2																	
3	YAT-YGWA-4I																	
4	YAT-YGWA-5I																	
5	YAT-YGWA-5D																	
6	YAT-YGWA-17S																	
7	YAT-YGWA-18S																	
8	YAT-YGWA-18I																	
9	YAT-YGWA-20S																	
10	YAT-YGWA-21I																	
11	YAT-YGWA-30I																	
12	YAT-YGWA-14S																	

<b>SAMPLER NAME AND SIGNATURE</b>	
PRINT Name of SAMPLER:	Jessica Ware
SIGNATURE of SAMPLER:	<i>Jessica Ware</i>
DATE signed:	8/15/23

RELINQUISHED BY/AFFILIATION	DATE	TIME	ACQUIRED BY/AFFILIATION	DATE	TIME	SAMPLE COMMENTS
<i>Jonny...</i> Arcadis	8/15/23	1805	<i>Jonny...</i> Arcadis	8/15/23	1805	
<i>Michelle...</i> Arcadis	8/16/23	0907	<i>Michelle...</i> Arcadis	8/16/23	0907	
<i>Ryan W. Williams</i> Pw	8/14/23	1115	<i>Ryan W. Williams</i> Pw	8/14/23	1115	
<i>Paul...</i> Pw	8/16/23	1115	<i>Paul...</i> Pw	8/16/23	1115	



**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
 Required Client Information:

Company: GA Power  
 Address: Atlanta, GA  
 Email To: lucrecia@southern.com  
 Phone: 470.620.6176  
 Fax: \_\_\_\_\_  
 Requested Due Date: 8/15/13

**Section B**  
 Required Project Information:

Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Task No: YAT-COR-ASSMT-202352  
 Purchase Order #: \_\_\_\_\_  
 Project Name: Plant Yates Pooled Upgrade  
 Project Number: \_\_\_\_\_

**Section C**  
 Invoice Information:

Attention: Southern Co.  
 Company Name: Southern Co.  
 Address: \_\_\_\_\_  
 Site: \_\_\_\_\_  
 Project Manager: Marcia D. Doherty  
 Price Profile #: 10840

Regulatory Agency: \_\_\_\_\_  
 State/Location: \_\_\_\_\_  
 City: \_\_\_\_\_

ITEM #	SAMPLE ID One Character per box (A-Z, 0-9 / . - ) Sample IDs must be unique	COLLECTED				DATE	TIME	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES								Analysis Test	Y/N						
		START	TIME	DATE	TIME						Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other								
																					MATRIX CODE (see wild codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	DATE	TIME
1	YAT-YGWA-39	W/G	G	8/15	7:20	8/15	17:20		6	2	4	4	4	4	4	X	X	X	X	X	X	X	X	X		
2	YAT-YGWA-40	W/G	G	8/15	17:20				6	2	4	4	4	4	4	X	X	X	X	X	X	X	X	X		
3	YAT-YGWA-11	W/G	G						6	2	4	4	4	4	4	X	X	X	X	X	X	X	X	X		
4	YAT-YGWA-1D	W/G	G						6	2	4	4	4	4	4	X	X	X	X	X	X	X	X	X		
5	YAT-YGWA-2I	W/G	G						6	2	4	4	4	4	4	X	X	X	X	X	X	X	X	X		
6	YAT-YGWA-3I	W/G	G						6	2	4	4	4	4	4	X	X	X	X	X	X	X	X	X		
7	YAT-YGWA-3D	W/G	G						6	2	4	4	4	4	4	X	X	X	X	X	X	X	X	X		
8																										
9																										
10																										
11																										
12																										

**ADDITIONAL COMMENTS:**  
 Analysis Suite 300.0 (Cl, F, Sulfate)  
 App III Metals: Barium 6020B, Ca 6010D, App III 6020B: Zn, Ag, Ni, V  
 App IV: Metals 6020S: Arsenic (As), Barium (Ba), Selenium (Se), Cadmium (Cd), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Zinc 7040A, Mercury (Hg)

**RELINQUISHED BY / AFFILIATION:** Marcia Doherty / Arcadis **DATE:** 8/15/13 **TIME:** 18:05  
Lyn Williams / Ran **DATE:** 8/15/13 **TIME:** 09:57  
Lyn Williams / Ran **DATE:** 8/15/13 **TIME:** 11:15

**ACCEPTED BY / AFFILIATION:** Alissa Ware / Arcadis **DATE:** 8/15/13 **TIME:** 09:57  
Alissa Ware / Arcadis **DATE:** 8/15/13 **TIME:** 11:15

**SAMPLER NAME AND SIGNATURE:**  
 PRINT Name of SAMPLER: \_\_\_\_\_  
 SIGNATURE of SAMPLER: \_\_\_\_\_  
 DATE signed: 8/15/13

TEMP in C \_\_\_\_\_  
 Received on ice (Y/N) \_\_\_\_\_  
 Cooled Sealed (Y/N) \_\_\_\_\_  
 Samples intact (Y/N) \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92683132

PM: BV Due Date: 09/07/23 CLIENT: 92-GP-Yates

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: J-17-23 AV

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 230

Type of Ice:  Wet  Blue  None

Cooler Temp: 5.7 Correction Factor: 0.0 Add/Subtract (°C) 5.7

Temp should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.7 USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix:	WG		
Headspace in VOA Vials (>5.6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92683132

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

PM: BV

Due Date: 09/07/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 92-GP-Yates

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	/	1	/	2	/	2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.





DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92683132

PM: BV Due Date: 09/07/23

CLIENT: 92-GP-Yates

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: J-17-23AY

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 230 Type of Ice:  Wet  Blue  None

Cooler Temp: 5.7 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.7

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix: WG			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



Effective Date: 11/14/2022

WO#: 92683132

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

PM: BV

Due Date: 09/07/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 92-GP-Yates

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (C-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (C-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
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**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

Section A Required Client Information:		Section B Requester Project Information:	
Company: GA Power	Report To: SCS Contacts	Client Name: Southern Co.	Analyst: Southern Co.
Address: Atlanta, GA	Copy To: Accidents Contacts	Company Name:	
Task No: YAT-CR-ASMT-207382	Purchase Order #:	State Location:	Georgia
Project Name: Plant Yates Pooled Upgrade	Project Number:	Place Project Manager: J. Moore	
Requested Due Date: 8/11/23		Place Problem #: 10840	

ITEM #	MATRIX CODE (see table below)	MATRIX TYPE (G-CRAB-C-COM)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES									App / II (GPRISM only)	RADICAL CHLORINE (Y/N)	Received on	Sealed	Cooler	Sampler	(Y/N)												
			START DATE TIME	END DATE TIME			H2SO4	HNO3	HCl	NaOH	Na2SO3	Mercuric	Other	App UVV Metals - Cu, Ni, K	TDS (240C)								PAO 9315/9320											
YAT-YGWA-39	WIG G	G	-	-	-	6	2	4																										
YAT-YGWA-40	WIC B	B	-	-	-	6	2	4																										
YAT-YGWA-41	WIC G	G	-	-	-	6	2	4																										
YAT-YGWA-1D	WIC G	G	-	-	-	6	2	4																										
YAT-YGWA-2I	WIC G	G	-	-	-	6	2	4																										
YAT-YGWA-3I	WIC G	G	8/11/23	10:30	-	6	2	4																										
YAT-YGWA-3D	WIC G	G	-	-	-	6	2	4																										

**SAMPLE ID**  
 One Character per box.  
 [A-Z, 0-9 / -]  
 Sample IDs must be unique

MATRIX:	Drinking Water	DM
Water	WT	
Waste Water	WW	
Product	PR	
Control	CR	
Other	OT	
At One	AO	
Trace	TR	

Atlanta Suite 300.0 (Cl. F. Sulfate)  
 App II Metals: Boron (B), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Toxic, mercury (Hg)

App IV: Arsenic (As), Barium (Ba), Benzene (Bz), Cesium (Cs), Chlorine (Cl), Chloroform (Ch), Copper (Cu), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Toxic, mercury (Hg)

Personnel Signatures and Dates:  
 David Paul - 8/11/23  
 W. Williams - 8/11/23  
 W. Williams - 8/11/23



# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JJS1  
Date: 8/31/2023  
Worklist: 75028  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2976835
MB concentration:	0.100
MB 2 Sigma CSU:	0.312
MB MDC:	0.703
MB Numerical Performance Indicator:	0.63
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD75028	LCSD75028
Count Date:	9/6/2023	9/6/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.931	39.931
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.817
Target Conc. (pCi/L, g, F):	4.871	4.885
Uncertainty (Calculated):	0.239	0.239
Result (pCi/L, g, F):	4.767	3.683
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.036	0.867
Numerical Performance Indicator:	-0.19	-2.62
Percent Recovery:	97.85%	75.39%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	LCSD (Y or N)?	Y
Sample I.D.:	LCSD75028	9/6/2023
Duplicate Sample I.D.:	LCSD75028	23-043
Sample Result (pCi/L, g, F):	4.767	39.931
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.036	0.10
Sample Duplicate Result (pCi/L, g, F):	3.683	0.817
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.867	4.885
Are sample and/or duplicate results below RL?	NO	3.683
Duplicate Numerical Performance Indicator:	1.573	0.867
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	25.93%	75.39%
Duplicate Status vs Numerical Indicator:	Pass	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Sample Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Sample Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

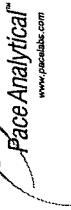
## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*[Handwritten signature]*

*VAL*  
*9/18/23*

# Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: ZPC  
Date: 8/31/2023  
Worklist: 75029  
Matrix: WT

**Method Blank Assessment**

MB Sample ID: 2976847  
MB concentration: 0.830  
MB 2 Sigma CSU: 0.342  
MB MDC: 0.491  
MB Numerical Performance Indicator: 4.76  
MB Status vs Numerical Indicator: Fail\*  
MB Status vs. MDC: See Comment\*

*OK*

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS75029	LCS75029
Count Date:	9/6/2023	9/6/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.931	39.931
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.817
Target Conc. (pCi/L, g, F):	4.889	4.888
Uncertainty (Calculated):	0.240	0.240
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	3.930	3.696
Numerical Performance Indicator:	0.909	0.843
Percent Recovery:	-2.00	-2.67
Status vs Numerical Indicator:	80.39%	75.60%
Upper % Recovery Limits:	Pass	N/A
Lower % Recovery Limits:	135%	135%
	60%	60%

**Duplicate Sample Assessment**

Sample I.D.: LCS75029  
Duplicate Sample I.D.: LCS75029  
Sample Result (pCi/L, g, F): 3.930  
Sample Duplicate Result (pCi/L, g, F): 0.909  
Sample Result 2 Sigma CSU (pCi/L, g, F): 3.696  
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): 0.843  
Are sample and/or duplicate results below RL? NO  
Duplicate Numerical Performance Indicator: 0.370  
Duplicate Numerical Performance Indicator: 6.14%  
Duplicate Status vs Numerical Indicator: Pass  
Duplicate Status vs RPD: Pass  
% RPD Limit: 36%

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

# Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

**Comments:**  
\*The method blank result is below the reporting limit for this analysis and is acceptable.

*VAR*  
*9/8/23*

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
<p>Sample Collection Date:</p> <p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>Spike Volume Used in MSD (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MS Target Conc. (pCi/L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc. (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>Sample Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limits:</p> <p>MS/MSD Lower % Recovery Limits:</p>		

**Matrix Spike/Matrix Spike Duplicate Sample Assessment**

Sample I.D.:

Sample MS I.D.:

Sample MSD I.D.:

Sample Matrix Spike Result:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):

Sample Matrix Spike Duplicate Result:

Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):

Matrix Spike Duplicate Numerical Performance Indicator:

Duplicate Numerical Performance Indicator:

(Based on the Percent Recoveries) MS/MSD Duplicate RPD:

MS/MSD Duplicate Status vs Numerical Indicator:

MS/MSD Duplicate Status vs RPD:

% RPD Limit:

# Quality Control Sample Performance Assessment

*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-228  
Analyst: VAL  
Date: 9/5/2023  
Worklist: 75032  
Matrix: WT



Method Blank Assessment	
MB Sample ID	2976857
MB concentration:	-0.061
MB 2 Sigma CSU:	0.274
MB MDC:	0.661
MB Numerical Performance Indicator:	-0.44
MB Status vs. Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or NJ)?	
	LCS75032	LCS75032
Count Date:	9/8/2023	9/8/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.906	39.906
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.820
Target Conc. (pCi/L, g, F):	4.890	4.868
Uncertainty (Calculated):	0.240	0.239
Result (pCi/L, g, F):	5.009	4.854
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.056	1.035
Numerical Performance Indicator:	0.22	-0.03
Percent Recovery:	102.44%	99.70%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	Sample I.D.:
Duplicate Sample I.D.:	Sample MS I.D.:
Sample Result (pCi/L, g, F):	Sample MSD I.D.:
Sample Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Result:
Sample Duplicate Result (pCi/L, g, F):	Sample Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Are sample and/or duplicate results below RL?	Sample Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
Duplicate Status vs Numerical Indicator:	(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:
Duplicate Status vs RPD:	MS/ MSD Duplicate Status vs Numerical Indicator:
% RPD Limit:	% RPD Limit:
Pass	MS/ MSD Duplicate Status vs RPD:
Pass	
36%	

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*9/8/23*

*9/11/23*



# Quality Control Sample Performance Assessment

*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226  
 Analyst: SLC  
 Date: 9/2/2023  
 Worklist: 75042  
 Matrix: WT

Method Blank Assessment	
MB Sample ID	2977146
MB concentration:	0.101
MB 2 Sigma CSU:	0.125
MB MDC:	0.261
MB Numerical Performance Indicator:	1.59
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment		
Count Date:	LCS/D (Y or N)?	
	LCS75042	Y
Decay Corrected Spike Concentration (pCi/mL):	19-033	19-033
Volume Used (mL):	24.013	24.013
Aliquot Volume (L, g, F):	0.10	0.10
Target Conc. (pCi/L, g, F):	4.790	4.775
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	6.088	6.235
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.071	1.103
Numerical Performance Indicator:	2.37	2.59
Percent Recovery:	127.10%	130.59%
Status vs Numerical Indicator:	Warning	Warning
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment		
Sample I.D.:	LCS75042	92683140002
Duplicate Sample I.D.	LCS075042	92683140002DUP
Sample Result (pCi/L, g, F):	6.088	0.160
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.071	0.135
Sample Duplicate Result (pCi/L, g, F):	6.235	0.280
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.103	0.167
Are sample and/or duplicate results below RL?	NO	See Below #
Duplicate Numerical Performance Indicator:	-0.187	-1.090
Duplicate Status vs Numerical Indicator:	2.70%	54.18%
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	N/A	N/A
% RPD Limit:	25%	25%

Sample Matrix Spike Control Assessment		
Sample Collection Date:	MS/MSD 1	MS/MSD 2
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
Duplicate Numerical Performance Indicator:		
M/S/MSD Duplicate Status vs Numerical Indicator:		
M/S/MSD Duplicate Status vs RPD:		
% RPD Limit:		

# Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

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*Handwritten date: 9/18/23*

# Quality Control Sample Performance Assessment

*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226  
Analyst: SLC  
Date: 9/12/2023  
Worklist: 75103  
Matrix: WT



Method Blank Assessment	
MB Sample ID	2982186
MB concentration:	0.199
MB 2 Sigma CSU:	0.286
MB MDC:	0.622
MB Numerical Performance Indicator:	1.36
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS75103	LCS75103
Count Date:	9/13/2023	9/13/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.031	25.031
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.509
Target Conc. (pCi/L, g, F):	4.965	4.920
Uncertainty (Calculated):	0.233	0.231
Result (pCi/L, g, F):	5.960	4.641
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.214	1.014
Numerical Performance Indicator:	1.58	-0.53
Percent Recovery:	120.03%	94.32%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCSD (Y or N)?	
	LCS75103	LCS75103
Sample I.D.:	92682115021	92682115021DUP
Duplicate Sample I.D.:	0.432	0.432
Sample Result (pCi/L, g, F):	1.214	1.214
Sample Result 2 Sigma CSU (pCi/L, g, F):	4.641	4.641
Sample Duplicate Result (pCi/L, g, F):	1.014	1.014
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	NO	NO
Are sample and/or duplicate results below RL?	1.634	1.634
Duplicate Numerical Performance Indicator:	23.99%	23.99%
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Pass	Pass
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*[Handwritten Signature]*

LAM 9/13/23

Sample Matrix: Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

# Quality Control Sample Performance Assessment



Analytist Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: SLC  
Date: 9/13/2023  
Worklist: 75106  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2982190
MB concentration:	0.438
MB 2 Sigma CSU:	0.430
MB MDC:	0.847
MB Numerical Performance Indicator:	2.00
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS75106	LCS75106
Count Date:	9/13/2023	9/13/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.031	25.031
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.501
Target Conc. (pCi/L, g, F):	4.948	4.999
Uncertainty (Calculated):	0.233	0.235
Result (pCi/L, g, F):	4.951	4.002
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.188	1.046
Numerical Performance Indicator:	0.00	-1.82
Percent Recovery:	100.06%	80.06%
Status vs Numerical Indicator:	Pass	Pass
Upper % Recovery Limits:	N/A	N/A
Lower % Recovery Limits:	125%	125%
	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Duplicate Sample Assessment
Sample I.D.: Duplicate Sample I.D.: Sample Result (pCi/L, g, F): Sample Duplicate Result (pCi/L, g, F): Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): Are sample and/or duplicate results below RL? Duplicate Numerical Performance Indicator: Duplicate Percent Recoveries Duplicate RPD: Duplicate Status vs Numerical Indicator: Duplicate Status vs RPD: % RPD Limit:

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Handwritten signature and date: 9/13/23*

*Handwritten date: 9/13/23*

# Appendix B

## Field Sampling Reports



**Field Instrumentation Calibration Form**

Site Name: Plant Yates

Date: 8/15/2023

Calibrated By: Kim Lapszynski

Field Conditions: Sunny Hot

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	867242
Turbidity Meter	Geotech	22043965

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:50			Time Finish 8:40		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.09	± 0.1	GWMP
pH (SU)	7.00	7.00	24.87	± 0.1	GWMP
pH (SU)	10.00	10.00	25.00	± 0.1	GWMP
D.O. (%)	N/A	100.00	26.86	± 10%	NA
ORP (mV)	229.0	229	26.86	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
<b>Turbidity (NTU)</b>	20	19.8	± 10% of standard	EPA 2023
	100	111		
	800	783		
	<0.10	0.02		

Calibration Check					
Time Start 12:45			Time Finish 13:15		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4	25.09	± 0.1	GWMP
pH (SU)	7.00	7	24.87	± 0.1	GWMP
pH (SU)	10.00	10	25.00	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
<b>Turbidity (NTU)</b>	20	19.1	± 10% of standard	EPA 2023
	100	111		
	800	804		
	<0.10	0.02		

Notes:

**Field Instrumentation Calibration Form**

Site Name: Plant Yates

Date: 8/15/2023

Calibrated By: David Prouty

Field Conditions: Sunny Hot

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	661797
Turbidity Meter	Geotech	22043966

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 8:00			Time Finish 8:45		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.80	± 0.1	GWMP
pH (SU)	7.00	7.02	21.61	± 0.1	GWMP
pH (SU)	10.00	10.05	21.77	± 0.1	GWMP
D.O. (%)	N/A	100.00	23.38	± 10%	NA
ORP (mV)	229.0	229	22.35	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20	± 10% of standard	EPA 2023
	100	101		
	800	--		
	<0.10	0.11		

Calibration Check					
Time Start 12:30			Time Finish 13:12		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4	26.96	± 0.1	GWMP
pH (SU)	7.00	7	26.94	± 0.1	GWMP
pH (SU)	10.00	9.95	27.04	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	--	± 10% of standard	EPA 2023
	100	--		
	800	--		
	<0.10	--		

Notes:

**Field Instrumentation Calibration Form**

Site Name: Plant Yates

Date: 8/15/2023

Calibrated By: Jake Swanson

Field Conditions: Sunny Hot

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	613192
Turbidity Meter	Geotech	--

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:45			Time Finish 8:30		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.34	± 0.1	GWMP
pH (SU)	7.00	7.02	21.36	± 0.1	GWMP
pH (SU)	10.00	10.05	21.82	± 0.1	GWMP
D.O. (%)	N/A	100.00	23.76	± 10%	NA
ORP (mV)	229.0	229	22.02	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.02		

Calibration Check					
Time Start 12:20			Time Finish 12:50		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	30.55	± 0.1	GWMP
pH (SU)	7.00	6.99	31.19	± 0.1	GWMP
pH (SU)	10.00	9.95	30.94	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.02		

Notes:

**Field Instrumentation Calibration Form**

Site Name: Plant Yates

Date: 8/15/2023

Calibrated By: Jessica Ware

Field Conditions: Sunny Hot

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	887121
Turbidity Meter	Geotech	21063282

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 8:00			Time Finish 8:45		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.68	± 0.1	GWMP
pH (SU)	7.00	7.02	21.76	± 0.1	GWMP
pH (SU)	10.00	10.05	22.21	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.45	± 10%	NA
ORP (mV)	229.0	229	23.34	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
<b>Turbidity (NTU)</b>	20	20.2	± 10% of standard	EPA 2023
	100	100		
	800	801		
	<0.10	0.02		

Calibration Check					
Time Start 12:30			Time Finish 13:00		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4	28.19	± 0.1	GWMP
pH (SU)	7.00	7	28.25	± 0.1	GWMP
pH (SU)	10.00	9.95	28.83	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
<b>Turbidity (NTU)</b>	20	20.8	± 10% of standard	EPA 2023
	100	101		
	800	806		
	<0.10	0.02		

Notes:

**Field Instrumentation Calibration Form**

Site Name: Plant Yates

Date: 8/16/2023

Calibrated By: Mark Chest

Field Conditions: Sunny Hot

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	663604
Turbidity Meter	Geotech	U112809X

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 9:30			Time Finish 10:20		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.26	± 0.1	GWMP
pH (SU)	7.00	7.00	23.26	± 0.1	GWMP
pH (SU)	10.00	10.00	23.45	± 0.1	GWMP
D.O. (%)	N/A	100.00	23.92	± 10%	NA
ORP (mV)	229.0	231.1	24.47	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.8	± 10% of standard	EPA 2023
	100	96.4		
	800	789		
	<0.10	0.02		

Calibration Check					
Time Start 12:20			Time Finish 12:40		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4	26.46	± 0.1	GWMP
pH (SU)	7.00	7	27.27	± 0.1	GWMP
pH (SU)	10.00	10	26.31	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.4	± 10% of standard	EPA 2023
	100	99.1		
	800	783		
	<0.10	0.02		

Notes:

**Field Instrumentation Calibration Form**

Site Name: Plant Yates

Date: 8/16/2023

Calibrated By: Jessica Ware

Field Conditions: Sunny Hot

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	613224
Turbidity Meter	Geotech	21063282

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 8:45			Time Finish 9:15		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.25	± 0.1	GWMP
pH (SU)	7.00	7.00	25.34	± 0.1	GWMP
pH (SU)	10.00	10.00	24.54	± 0.1	GWMP
D.O. (%)	N/A	100.00	23.15	± 10%	NA
ORP (mV)	229.0	229	25.38	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.8	± 10% of standard	EPA 2023
	100	100		
	800	806		
	<0.10	0.02		

Calibration Check					
Time Start 17:00			Time Finish 17:20		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	28.79	± 0.1	GWMP
pH (SU)	7.00	6.99	28.31	± 0.1	GWMP
pH (SU)	10.00	9.95	28.55	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20.3	± 10% of standard	EPA 2023
	100	102		
	800	800		
	<0.10	0.02		

Notes:

**Field Instrumentation Calibration Form**

Site Name: Plant Yates

Date: 8/16/2023

Calibrated By: Kim Lapszynski

Field Conditions: Sunny Hot

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	867242
Turbidity Meter	Geotech	22043965

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 8:45			Time Finish 9:15		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.08	± 0.1	GWMP
pH (SU)	7.00	7.02	22.15	± 0.1	GWMP
pH (SU)	10.00	10.05	22.03	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.55	± 10%	NA
ORP (mV)	229.0	229	21.94	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.9	± 10% of standard	EPA 2023
	100	97.6		
	800	796		
	<0.10	0.02		

Calibration Check					
Time Start 13:31			Time Finish 14:00		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	30.44	± 0.1	GWMP
pH (SU)	7.00	6.99	31.78	± 0.1	GWMP
pH (SU)	10.00	9.95	29.63	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	18	± 10% of standard	EPA 2023
	100	97.6		
	800	797		
	<0.10	0.02		

Notes:



**Field Instrumentation Calibration Form**

Site Name: Plant Yates

Date: 8/16/2023

Calibrated By: David Prouty

Field Conditions: Sunny Hot

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	661797
Turbidity Meter	Geotech	22043966

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 8:45			Time Finish 9:10		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.32	± 0.1	GWMP
pH (SU)	7.00	7.00	23.11	± 0.1	GWMP
pH (SU)	10.00	10.00	23.25	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.98	± 10%	NA
ORP (mV)	229.0	230	24.32	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.9	± 10% of standard	EPA 2023
	100	100		
	800	--		
	<0.10	0.1		

Calibration Check					
Time Start 13:30			Time Finish 13:45		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4	25.87	± 0.1	GWMP
pH (SU)	7.00	7	26.03	± 0.1	GWMP
pH (SU)	10.00	10	26.21	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	--	± 10% of standard	EPA 2023
	100	--		
	800	--		
	<0.10	--		

Notes:

**Field Instrumentation Calibration Form**

Site Name: Plant Yates

Date: 8/16/2023

Calibrated By: Jake Swanson

Field Conditions: Sunny Hot

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	613192
Turbidity Meter	Geotech	--

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 0:00			Time Finish 9:15		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.66	± 0.1	GWMP
pH (SU)	7.00	7.02	20.82	± 0.1	GWMP
pH (SU)	10.00	10.05	21.45	± 0.1	GWMP
D.O. (%)	N/A	100.00	24.35	± 10%	NA
ORP (mV)	229.0	229	21.19	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.02		

Calibration Check					
Time Start 13:31			Time Finish 14:00		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	34.01	± 0.1	GWMP
pH (SU)	7.00	6.99	32	± 0.1	GWMP
pH (SU)	10.00	9.91	35.23	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.02		

Notes:

**Field Instrumentation Calibration Form**

Site Name: Plant Yates

Date: 8/17/2023

Calibrated By: David Prouty

Field Conditions: Sunny Hot

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	661797
Turbidity Meter	Geotech	22043966

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 8:40			Time Finish 9:15		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.19	± 0.1	GWMP
pH (SU)	7.00	7.00	23.33	± 0.1	GWMP
pH (SU)	10.00	10.00	25.73	± 0.1	GWMP
D.O. (%)	N/A	100.00	24.73	± 10%	NA
ORP (mV)	229.0	226.9	26.66	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
<b>Turbidity (NTU)</b>	20	19.9	± 10% of standard	EPA 2023
	100	101		
	800	--		
	<0.10	101		

Calibration Check					
Time Start NA			Time Finish NA		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	--	--	± 10% of standard	EPA 2023
pH (SU)	4.00	--	--	± 0.1	GWMP
pH (SU)	7.00	--	--	± 0.1	GWMP
pH (SU)	10.00	--	--	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
<b>Turbidity (NTU)</b>	--	--	± 10% of standard	EPA 2023
	--	--		
	--	--		
	--	--		

Notes:

**Field Instrumentation Calibration Form**

Site Name: Plant Yates

Date: 8/17/2023

Calibrated By: Kim Lapszynski

Field Conditions: Sunny Hot

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	867242
Turbidity Meter	Geotech	22043965

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 8:43			Time Finish 9:15		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.53	± 0.1	GWMP
pH (SU)	7.00	7.00	23.55	± 0.1	GWMP
pH (SU)	10.00	10.00	23.50	± 0.1	GWMP
D.O. (%)	N/A	100.00	23.35	± 10%	NA
ORP (mV)	229.0	229	22.96	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	21	± 10% of standard	EPA 2023
	100	100		
	800	785		
	<0.10	0.02		

Calibration Check					
Time Start NA			Time Finish NA		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	--	--	± 10% of standard	EPA 2023
pH (SU)	4.00	--	--	± 0.1	GWMP
pH (SU)	7.00	--	--	± 0.1	GWMP
pH (SU)	10.00	--	--	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	--	--	± 10% of standard	EPA 2023
	--	--		
	--	--		
	--	--		

Notes:

**Field Instrumentation Calibration Form**

Site Name: Plant Yates

Date: 8/17/2023

Calibrated By: Jake Swanson

Field Conditions: Sunny Hot

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	613192
Turbidity Meter	Geotech	--

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 8:43			Time Finish 9:15		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.16	± 0.1	GWMP
pH (SU)	7.00	7.00	23.24	± 0.1	GWMP
pH (SU)	10.00	10.00	23.75	± 0.1	GWMP
D.O. (%)	N/A	100.00	24.65	± 10%	NA
ORP (mV)	229.0	229	23.50	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
<b>Turbidity (NTU)</b>	20	20	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.02		

Calibration Check					
Time Start 13:00			Time Finish 13:30		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	29.87	± 0.1	GWMP
pH (SU)	7.00	6.99	30.47	± 0.1	GWMP
pH (SU)	10.00	9.95	31.14	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
<b>Turbidity (NTU)</b>	20	20	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.02		

Notes:

**Field Instrumentation Calibration Form**

Site Name: Plant Yates

Date: 8/17/2023

Calibrated By: Jessica Ware

Field Conditions: Sunny Hot

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	613224
Turbidity Meter	Geotech	21063282

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 8:40			Time Finish 9:10		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.83	± 0.1	GWMP
pH (SU)	7.00	7.00	22.64	± 0.1	GWMP
pH (SU)	10.00	10.00	23.10	± 0.1	GWMP
D.O. (%)	N/A	100.00	27.08	± 10%	NA
ORP (mV)	229.0	229	23.90	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.9	± 10% of standard	EPA 2023
	100	100		
	800	807		
	<0.10	0.04		

Calibration Check					
Time Start NA			Time Finish NA		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	--	--	± 10% of standard	EPA 2023
pH (SU)	4.00	--	--	± 0.1	GWMP
pH (SU)	7.00	--	--	± 0.1	GWMP
pH (SU)	10.00	--	--	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	--	--	± 10% of standard	EPA 2023
	--	--		
	--	--		
	--	--		

Notes:

### Groundwater Gauging Log

<b>Client:</b>		Georgia Power			
<b>Project Location:</b>		AP-1			
<b>Date:</b>		8/14/2023			
<b>Sampler:</b>		Mark Chest			
<b>Equipment:</b>		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-52	8/14/2023	12:23:00	37.14	70.79	--
PZ-09S	8/14/2023	12:31:00	19.29	57.00	--
PZ-09I	8/14/2023	12:34:00	19.59	77.00	--
YGWC-45	8/14/2023	12:39:00	22.78	73.80	--
PZ-10I	8/14/2023	12:51:00	13.38	46.50	--
PZ-10S	8/14/2023	12:56:00	8.42	16.30	--
YGWC-44	8/14/2023	13:03:00	49.52	89.85	--
YGWC-46A	8/14/2023	13:13:00	39.88	79.22	--
PZ-53	8/14/2023	13:16:00	39.78	72.00	--



# Groundwater Sampling Form

Updated : 8/15/2023 10:05:48 AM -04:00

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWA-47	<b>Date</b>	08/15/2023		
<b>Project Location</b>	AP-1	<b>Weather(°F)</b>	77.0 degrees F and Clear. The wind is blowing W at 4.7 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	49.4	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	33.82	<b>Total Depth (ft-bmp)</b>	59.19	<b>Water Column(ft)</b>	25.37	<b>Gallons in Well</b>	4.12
<b>MP Elevation</b>	758.22	<b>Pump Intake (ft-bmp)</b>	54	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	09:43	<b>Well Volumes Purged</b>	0.29	<b>Sample ID</b>	YGWA-47	<b>Sampled by</b>	Mark Chest
<b>Purge Start</b>	09:20	<b>Gallons Purged</b>	1.19	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	09:40						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:20:00	00:00	225	33.82	5.53	217.42	0.25	4.61	18.4	226.72
09:25:00	05:00	225	34.75	5.60	218.91	0.02	3.15	19.0	246.92
09:30:00	10:00	225	34.75	5.65	219.03	0.03	3.12	19.0	255.57
09:35:00	15:00	225	34.74	5.65	219.51	0.03	3.06	19.1	262.66
09:40:00	20:00	225	34.74	5.69	220.80	0.02	3.05	19.0	265.45

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	2	HNO3
Anions	250 mL Plastic	1	None

**Comments:** No comment

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot  
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: \_\_\_\_\_ Well Locked at Arrival: \_\_\_\_\_  
 Condition of Well: \_\_\_\_\_ Well Locked at Departure: \_\_\_\_\_  
 Well Completion: NA Key Number To Well: NA

# Groundwater Sampling Form

Updated : 8/15/2023 11:44:06 AM -04:00

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWC-52	<b>Date</b>	08/15/2023		
<b>Project Location</b>	AP-1	<b>Weather(°F)</b>	78.8 degrees F and Clear. The wind is blowing W/SW at 4.7 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	60.79	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	37.13	<b>Total Depth (ft-bmp)</b>	70.79	<b>Water Column(ft)</b>	33.66	<b>Gallons in Well</b>	5.47
<b>MP Elevation</b>	755.86	<b>Pump Intake (ft-bmp)</b>	65	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	11:23	<b>Well Volumes Purged</b>	0.39	<b>Sample ID</b>	YAT-YGWC-52	<b>Sampled by</b>	Mark Chest
<b>Purge Start</b>	10:40	<b>Gallons Purged</b>	2.11	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	11:20						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:40:00	00:00	200	37.13	5.97	347.78	0.02	1.21	21.3	202.62
10:45:00	05:00	200	38.05	6.04	347.23	0.03	0.62	21.1	197.74
10:50:00	10:00	200	38.04	6.07	346.88	0.02	0.51	20.9	194.94
10:55:00	15:00	200	38.08	6.08	346.85	0.02	0.56	20.7	202.93
11:00:00	20:00	200	38.1	6.06	358.91	0.02	1.75	20.9	210.93
11:05:00	25:00	200	38.12	6.04	360.09	0.02	2.03	20.8	218.01
11:10:00	30:00	200	38.1	6.04	358.42	0.02	2.20	21.1	223.24
11:15:00	35:00	200	38.05	6.04	356.30	0.02	2.26	20.9	226.23
11:20:00	40:00	200	38.05	6.05	356.74	0.02	2.31	20.9	229.28

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	2	HNO3
Anions	250 mL Plastic	1	None

**Comments:** No comment

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot  
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: \_\_\_\_\_ Well Locked at Arrival: \_\_\_\_\_  
 Condition of Well: \_\_\_\_\_ Well Locked at Departure: \_\_\_\_\_  
 Well Completion: NA Key Number To Well: NA

# Groundwater Sampling Form

Updated : 8/15/2023 3:23:32 PM  
-04:00

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWC-45	<b>Date</b>	08/15/2023		
<b>Project Location</b>	AP-1	<b>Weather(°F)</b>	89.8 degrees F and Partly Cloudy. The wind is blowing W/SW at 5.8 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	63.8	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	23.25	<b>Total Depth (ft-bmp)</b>	73.8	<b>Water Column(ft)</b>	50.55	<b>Gallons in Well</b>	8.21
<b>MP Elevation</b>	719.36	<b>Pump Intake (ft-bmp)</b>	69	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	15:05	<b>Well Volumes Purged</b>	0.23	<b>Sample ID</b>	YAT-YGWC-45	<b>Sampled by</b>	Mark Chest
<b>Purge Start</b>	14:27	<b>Gallons Purged</b>	1.85	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	15:02						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:27:00	00:00	200	23.25	7.15	566.93	31.00	7.80	26.6	159.42
14:32:00	05:00	200	24.91	6.53	551.94	16.20	0.37	19.9	-0.07
14:37:00	10:00	200	25.25	6.66	558.12	12.30	0.12	19.5	6.75
14:42:00	15:00	200	25.3	6.64	566.01	4.63	0.22	22.1	8.89
14:47:00	20:00	200	25.26	6.69	564.68	2.69	0.19	22.1	8.94
14:52:00	25:00	200	25.32	6.96	584.09	1.29	0.14	20.7	-18.99
14:57:00	30:00	200	25.39	7.05	586.97	0.46	0.14	20.6	-36.56
15:02:00	35:00	200	25.39	6.97	580.38	1.13	0.17	20.4	-28.43

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	500 mL Plastic	2	HNO3
Metals	250 mL Plastic	2	HNO3
Anions	250 mL Plastic	1	None

**Comments:** No comment

### Well Casing Volume Conversion

Well diameter (inches) = gallons per foot  
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

### Well Information

Well Location: \_\_\_\_\_ Well Locked at Arrival: \_\_\_\_\_  
 Condition of Well: \_\_\_\_\_ Well Locked at Departure: \_\_\_\_\_  
 Well Completion: NA Key Number To Well: NA

# Groundwater Sampling Form

Updated : 8/16/2023 8:35:50 AM  
-04:00

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWC-44	<b>Date</b>	08/15/2023		
<b>Project Location</b>	AP-1	<b>Weather(°F)</b>	84.9 degrees F and Mostly Cloudy. The wind is blowing W at 4.7 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	79.95	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	49.54	<b>Total Depth (ft-bmp)</b>	89.85	<b>Water Column(ft)</b>	40.31	<b>Gallons in Well</b>	6.55
<b>MP Elevation</b>	758.35	<b>Pump Intake (ft-bmp)</b>	83	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	13:27	<b>Well Volumes Purged</b>	0.16	<b>Sample ID</b>	YAT-YGWC-44	<b>Sampled by</b>	Mark Chest
<b>Purge Start</b>	13:05	<b>Gallons Purged</b>	1.06	<b>Replicate/ Code No.</b>	YAT-AP1-FB-1	<b>Color</b>	Clear
<b>Purge End</b>	13:25						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:05:00	00:00	200	49.54	5.81	449.97	0.02	1.03	21.3	-32.97
13:10:00	05:00	200	51.72	5.78	451.29	0.02	0.43	22.1	25.87
13:15:00	10:00	200	51.9	5.79	450.82	0.02	0.27	22.5	66.92
13:20:00	15:00	200	51.98	5.78	453.59	0.02	0.22	23.4	90.85
13:25:00	20:00	200	51.95	5.79	450.94	0.02	0.23	24.6	112.51

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	500 mL Plastic	2	HNO3
Metals	250 mL Plastic	2	HNO3
Anions	250 mL Plastic	1	None

**Comments:** 1350 Field Blank AP1-FB-1

### Well Casing Volume Conversion

Well diameter (inches) = gallons per foot  
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

### Well Information

Well Location: \_\_\_\_\_ Well Locked at Arrival: \_\_\_\_\_  
 Condition of Well: \_\_\_\_\_ Well Locked at Departure: \_\_\_\_\_  
 Well Completion: NA Key Number To Well: NA

# Groundwater Sampling Form

Updated : 9/1/2023 9:01:47 AM - 04:00

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWC-46A	<b>Date</b>	08/15/2023		
<b>Project Location</b>	AP-1	<b>Weather(°F)</b>	It is Mostly Cloudy. The wind is blowing undefined at 0.0 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	69.22	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	39.87	<b>Total Depth (ft-bmp)</b>	79.22	<b>Water Column(ft)</b>	39.35	<b>Gallons in Well</b>	6.39
<b>MP Elevation</b>	733.04	<b>Pump Intake (ft-bmp)</b>	74	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	16:07	<b>Well Volumes Purged</b>	0.21	<b>Sample ID</b>	YAT-YGWC-46A	<b>Sampled by</b>	Mark Chest
<b>Purge Start</b>	15:40	<b>Gallons Purged</b>	1.32	<b>Replicate/ Code No.</b>	YAT-AP1-FD-1	<b>Color</b>	Clear
<b>Purge End</b>	16:05						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:40:00	00:00	200	39.87	7.51	1139.77	0.50	8.20	24.5	101.60
15:40:00	00:00	200	39.87	7.51	1139.77	0.50	8.20	24.5	101.60
15:45:00	05:00	200	41.55	7.42	1335.61	0.04	0.84	20.9	-107.45
15:45:00	05:00	200	41.55	7.42	1335.61	0.04	0.84	20.9	-107.45
15:50:00	10:00	200	41.6	7.45	1341.17	0.02	0.61	21.9	-110.97
15:50:00	10:00	200	41.6	7.45	1341.17	0.02	0.61	21.9	-110.97
15:55:00	15:00	200	41.62	7.51	1365.01	0.02	0.36	22.1	-122.92
15:55:00	15:00	200	41.62	7.51	1365.01	0.02	0.36	22.1	-122.92
16:00:00	20:00	200	41.68	7.55	1358.20	0.02	0.21	22.2	-132.91
16:00:00	20:00	200	41.68	7.55	1358.20	0.02	0.21	22.2	-132.91
16:05:00	25:00	200	41.7	7.51	1348.84	0.02	0.18	22.3	-131.60
16:05:00	25:00	200	41.7	7.51	1348.84	0.02	0.18	22.3	-131.60

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	500 mL Plastic	2	HNO3
Metals	250 mL Plastic	2	HNO3
Anions	250 mL Plastic	1	None

**Comments:** No comment AP1-EB-1 @1710

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: \_\_\_\_\_ Well Locked at Arrival: \_\_\_\_\_  
 Condition of Well: \_\_\_\_\_ Well Locked at Departure: \_\_\_\_\_

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-1			
<b>Permit Number:</b>					
<b>Well ID:</b>		YGWC-52			
<b>Person Gauging:</b>		Mark Chest			
<b>Date:</b>		8/14/2023			
<b>Time:</b>		12:23:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-1			
<b>Permit Number:</b>					
<b>Well ID:</b>		PZ-09S			
<b>Person Gauging:</b>		Mark Chest			
<b>Date:</b>		8/14/2023			
<b>Time:</b>		12:31:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				



# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-1			
<b>Permit Number:</b>					
<b>Well ID:</b>		PZ-09I			
<b>Person Gauging:</b>		Mark Chest			
<b>Date:</b>		8/14/2023			
<b>Time:</b>		12:34:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-1			
<b>Permit Number:</b>					
<b>Well ID:</b>		YGWC-45			
<b>Person Gauging:</b>		Mark Chest			
<b>Date:</b>		8/14/2023			
<b>Time:</b>		12:39:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-1			
<b>Permit Number:</b>					
<b>Well ID:</b>		PZ-10I			
<b>Person Gauging:</b>		Mark Chest			
<b>Date:</b>		8/14/2023			
<b>Time:</b>		12:51:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-1			
<b>Permit Number:</b>					
<b>Well ID:</b>		PZ-10S			
<b>Person Gauging:</b>		Mark Chest			
<b>Date:</b>		8/14/2023			
<b>Time:</b>		12:56:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-1			
<b>Permit Number:</b>					
<b>Well ID:</b>		YGWC-44			
<b>Person Gauging:</b>		Mark Chest			
<b>Date:</b>		8/14/2023			
<b>Time:</b>		13:03:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-1			
<b>Permit Number:</b>					
<b>Well ID:</b>		YGWC-46A			
<b>Person Gauging:</b>		Mark Chest			
<b>Date:</b>		8/14/2023			
<b>Time:</b>		13:13:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-1			
<b>Permit Number:</b>					
<b>Well ID:</b>		PZ-53			
<b>Person Gauging:</b>		Mark Chest			
<b>Date:</b>		8/14/2023			
<b>Time:</b>		13:16:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				



# Upgradient Wells

<b>Client:</b>		Georgia Power			
<b>Project Location:</b>		AP-3, AMA R6, AP-1, AP-2, Gypsum			
<b>Date:</b>		8/14/2023			
<b>Sampler:</b>		Mark Chest, Jake Swanson, Kim Lapszunski, Jessica Ware			
<b>Equipment:</b>		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
GWA-2	8/14/2023	10:33	36.83	52.13	--
YGWA-14S	8/14/2023	10:23	18.53	34.96	--
YGWA-17S	8/14/2023	12:15	14.38	39.85	--
YGWA-18I	8/14/2023	12:01	24.90	79.97	--
YGWA-18S	8/14/2023	12:05	21.97	39.97	--
YGWA-1D	8/14/2023	09:36	49.55	128.85	--
YGWA-1I	8/14/2023	09:56	37.23	53.60	--
YGWA-20S	8/14/2023	10:23	11.54	29.52	--
YGWA-21I	8/14/2023	10:33	31.80	79.90	--
YGWA-2I	8/14/2023	10:01	44.76	63.75	--
YGWA-30I	8/14/2023	10:37	42.42	59.48	--
YGWA-39	8/14/2023	15:32	17.61	68.59	--
YGWA-3D	8/14/2023	10:10	31.49	134.18	--
YGWA-3I	8/14/2023	10:08	53.07	59.05	--
YGWA-40	8/14/2023	15:38	23.70	48.23	--
YGWA-47	8/14/2023	12:15	33.81	59.19	--
YGWA-4I	8/14/2023	11:01	24.27	48.81	--
YGWA-5D	8/14/2023	10:47	20.89	129.13	--
YGWA-5I	8/14/2023	10:48	20.58	58.94	--

# Groundwater Sampling Form

Updated : 8/15/2023 2:05:48 PM  
+00:00

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWA-47	<b>Date</b>	8/15/2023		
<b>Project Location</b>	AP-1	<b>Weather(°F)</b>	77.0 degrees F and Clear. The wind is blowing W at 4.7 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	49.4	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	33.82	<b>Total Depth (ft-bmp)</b>	59.19	<b>Water Column(ft)</b>	25.37	<b>Gallons in Well</b>	4.12
<b>MP Elevation</b>	758.22	<b>Pump Intake (ft-bmp)</b>	54	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	09:43	<b>Well Volumes Purged</b>	0.29	<b>Sample ID</b>	YGWA-47	<b>Sampled by</b>	Mark Chest
<b>Purge Start</b>	09:20	<b>Gallons Purged</b>	1.19	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	09:40						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:20:00	00:00	225	33.82	5.53	217.42	0.25	4.61	18.40	226.72
9:25:00	05:00	225	34.75	5.60	218.91	0.02	3.15	19.00	246.92
9:30:00	10:00	225	34.75	5.65	219.03	0.03	3.12	19.00	255.57
9:35:00	15:00	225	34.74	5.65	219.51	0.03	3.06	19.10	262.66
9:40:00	20:00	225	34.74	5.69	220.80	0.02	3.05	19.00	265.45

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** No comment

### Well Casing Volume Conversion

Well diameter (inches) = gallons per foot    1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

### Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: _____	Key Number To Well: _____

# Groundwater Sampling Form



Updated : 8/15/2023 4:50:18 PM  
+00:00

<b>Project Number</b>	30143622	<b>Well ID</b>	GWA-2	<b>Date</b>	8/15/2023		
<b>Project Location</b>	Gypsum Landfill		<b>Weather(°F)</b>	Sunny and clear 78 F °F, Sunny, winds at mph.			
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	42.1	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	36.81	<b>Total Depth (ft-bmp)</b>	52.13	<b>Water Column(ft)</b>	15.32	<b>Gallons in Well</b>	2.49
<b>MP Elevation</b>	805.62	<b>Pump Intake (ft-bmp)</b>	47	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	10:20	<b>Well Volumes Purged</b>	0.65	<b>Sample ID</b>	GWA-2	<b>Sampled by</b>	Jake Swanson
<b>Purge Start</b>	09:43	<b>Gallons Purged</b>	1.62	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	10:14						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:43:00	00:00	200	36.81	6.21	332.29	3.06	5.85	22.90	140.26
9:48:00	05:00	200	37.3	5.93	396.02	2.84	1.50	20.60	91.42
9:53:00	10:00	200	37.49	5.71	383.77	0.58	0.80	20.50	126.79
9:58:00	15:00	200	37.58	5.50	347.62	0.32	0.71	20.30	153.04
10:04:00	20:38	200	37.68	5.37	331.72	1.23	0.60	20.60	170.66
10:09:00	25:38	200	37.75	5.32	323.72	0.86	0.53	20.50	177.62
10:14:00	30:38	200	37.84	5.30	321.06	0.59	0.48	20.60	179.52

Constituent Sampled	Container	Number	Preservative
ChlorideSulfate	250 mL Plastic	1	None
MercuryMetals	250 mL Plastic	1	HNO3
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: _____	Key Number To Well: _____

# Groundwater Sampling Form



Updated : 8/15/2023 6:40:01 PM  
+00:00

<b>Project Number</b>	30143608	<b>Well ID</b>	YGWA-11	<b>Date</b>	8/15/2023		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	86.2 degrees F and Partly Cloudy. The wind is blowing NW at 3.4 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	43.3	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	37.24	<b>Total Depth (ft-bmp)</b>	53.6	<b>Water Column(ft)</b>	16.36	<b>Gallons in Well</b>	2.66
<b>MP Elevation</b>	836.6	<b>Pump Intake (ft-bmp)</b>	49	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Grab
<b>Sample Time</b>	13:45	<b>Well Volumes Purged</b>	0.30	<b>Sample ID</b>	YAT-YGWA-11	<b>Sampled by</b>	David Prouty
<b>Purge Start</b>	13:15	<b>Gallons Purged</b>	0.79	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	13:40						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:15:00	00:00	100	38.8	6.39	103.30		3.64	22.30	26.75
13:20:00	05:00	100	39.87	6.13	77.01		1.05	17.60	75.79
13:25:00	10:00	100	41.8	5.92	57.87		3.47	17.50	126.79
13:30:00	15:00	100	41.88	5.79	54.67	0.02	4.11	18.30	151.90
13:35:00	20:00	100	41.95	5.85	53.54	0.02	4.28	18.40	156.18
13:40:00	25:00	100	42.1	5.88	54.81	0.02	4.30	19.00	159.63

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III Metals	250 mL Plastic	1	HNO3
App IV metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** None

### Well Casing Volume Conversion

Well diameter (inches) = gallons per foot    1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

### Well Information

Well Location: \_\_\_\_\_ Well Locked at Arrival: \_\_\_\_\_  
 Condition of Well: \_\_\_\_\_ Well Locked at Departure: \_\_\_\_\_  
 Well Completion: \_\_\_\_\_ Key Number To Well: \_\_\_\_\_

# Groundwater Sampling Form



Updated : 8/15/2023 6:43:15 PM  
+00:00

<b>Project Number</b>	30143608	<b>Well ID</b>	YGWA-1D	<b>Date</b>	8/15/2023		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	78.8 degrees F and Clear. The wind is blowing W/SW at 4.7 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	78.05	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	49.57	<b>Total Depth (ft-bmp)</b>	128.85	<b>Water Column(ft)</b>	79.28	<b>Gallons in Well</b>	12.88
<b>MP Elevation</b>	837.25	<b>Pump Intake (ft-bmp)</b>	108	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Grab
<b>Sample Time</b>	11:20	<b>Well Volumes Purged</b>	0.07	<b>Sample ID</b>	YAT-YGWA-1D	<b>Sampled by</b>	David Prouty
<b>Purge Start</b>	10:49	<b>Gallons Purged</b>	0.92	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	11:19						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:49:00	00:00	100	49.69	7.15	168.64	0.55	0.85	19.70	-133.88
10:54:00	05:00	100	49.7	7.11	164.60	0.02	0.65	18.30	-140.91
10:59:00	10:00	100	49.71	7.07	159.08	0.02	0.43	17.40	-148.39
11:04:00	15:00	100	49.72	7.04	157.29	0.02	0.75	19.20	-123.76
11:09:00	20:00	100	49.72	7.02	155.02	0.02	0.76	19.10	-113.30
11:14:00	25:00	100	49.72	7.01	153.39	0.03	0.78	18.90	-99.34
11:19:00	30:00	100	49.72	6.98	153.07	0.02	0.85	18.90	-86.58

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III Metals	250 mL Plastic	1	HNO3
App IV metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: _____	Key Number To Well: _____

# Groundwater Sampling Form

Updated : 8/15/2023 8:12:44 PM  
+00:00

<b>Project Number</b>	30143608	<b>Well ID</b>	YGWA-2I	<b>Date</b>	8/15/2023		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	86.7 degrees F and Thunderstorms and Rain. The wind is blowing W at 4.7 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	53.45	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	44.78	<b>Total Depth (ft-bmp)</b>	63.75	<b>Water Column(ft)</b>	18.97	<b>Gallons in Well</b>	3.08
<b>MP Elevation</b>	866.25	<b>Pump Intake (ft-bmp)</b>	60	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Grab
<b>Sample Time</b>	15:45	<b>Well Volumes Purged</b>	0.19	<b>Sample ID</b>	YAT-YGWA-2I	<b>Sampled by</b>	David Prouty
<b>Purge Start</b>	15:14	<b>Gallons Purged</b>	0.59	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	15:41						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:14:00	00:00	100	44.78	6.94	225.19		6.10	19.50	96.70
15:15:00	00:22	100	44.78	6.93	228.51		5.35	19.50	45.58
15:15:00	00:45	100	44.78	6.90	235.78		4.59	18.70	3.86
15:16:00	01:23	100	45.73	6.94	240.21	0.89	3.57	18.60	-32.08
15:21:00	06:23	80	46.65	7.08	250.07	0.02	2.06	20.00	-62.29
15:26:00	11:23	80	47.15	7.08	250.80	0.02	1.60	20.50	-62.10
15:31:00	16:23	80	47.36	7.02	249.40	0.02	1.09	20.40	-50.95
15:36:00	21:23	80	47.36	6.98	243.49	0.02	0.98	20.30	-36.80
15:41:00	26:23	80	47.36	6.96	240.30	0.02	1.06	21.40	-32.57

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III Metals	250 mL Plastic	1	HNO3
App IV metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04   1.5 = 0.09   2.5 = 0.26   3.5 = 0.50   6 = 1.47  
 1.25 = 0.06   2 = 0.16   3 = 0.37   4 = 0.65

**Well Information**

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: _____	Key Number To Well: _____



# Groundwater Sampling Form

Updated : 8/15/2023 9:45:37 PM  
+00:00

<b>Project Number</b>	30143608	<b>Well ID</b>	YGWA-3D	<b>Date</b>	8/15/2023		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	75.2 degrees F and Thunderstorms. The wind is blowing W at 3.4 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	83.88	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	31.5	<b>Total Depth (ft-bmp)</b>	134.18	<b>Water Column(ft)</b>	102.68	<b>Gallons in Well</b>	16.68
<b>MP Elevation</b>	796.78	<b>Pump Intake (ft-bmp)</b>	113	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Grab
<b>Sample Time</b>	17:10	<b>Well Volumes Purged</b>		<b>Sample ID</b>	YAT-YGWA-3D	<b>Sampled by</b>	David Prouty
<b>Purge Start</b>	16:45	<b>Gallons Purged</b>		<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	17:06						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:45:00	00:00	100	31.5	7.36	246.20		8.18	25.90	101.77
16:45:00	00:33	100	31.55	7.28	247.50		8.12	25.30	102.28
16:50:00	05:33	100	31.55	7.38	243.30	0.02	0.40	17.80	-76.64
16:51:00	06:42	100	31.63	7.51	243.76	0.02	0.37	17.70	-93.21
16:55:00	10:09	100	31.66	7.63	243.32	0.02	0.27	17.80	-114.05
17:00:00	15:09	100	31.7	7.67	243.72	0.02	0.26	17.70	-119.95
17:05:00	20:09	100	31.71	7.69	243.95	0.02	0.28	17.60	-121.97

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III Metals	250 mL Plastic	1	HNO3
App IV metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** None

### Well Casing Volume Conversion

Well diameter (inches) = gallons per foot  
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

### Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: _____	Key Number To Well: _____

# Groundwater Sampling Form



Updated : 8/15/2023 9:47:29 PM  
+00:00

<b>Project Number</b>	30143623	<b>Well ID</b>	YGWA-14S	<b>Date</b>	8/15/2023		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	74.5 degrees F and Partly Cloudy. The wind is blowing undefined at 0.0 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	24.66	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	18.53	<b>Total Depth (ft-bmp)</b>	34.96	<b>Water Column(ft)</b>	16.43	<b>Gallons in Well</b>	2.67
<b>MP Elevation</b>	748.76	<b>Pump Intake (ft-bmp)</b>	30	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	17:30	<b>Well Volumes Purged</b>	0.74	<b>Sample ID</b>	YAT-YGWA-14S	<b>Sampled by</b>	Kim Lapszynski
<b>Purge Start</b>	16:37	<b>Gallons Purged</b>	1.98	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	17:28						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:37:00	00:00	150	18.53	6.03	15.42	1.64	7.97	26.00	180.27
16:42:00	05:00	150	18.85	5.23	29.99	0.02	8.58	20.50	209.12
16:47:00	10:00	150	18.92	5.25	40.73	0.10	8.43	20.10	223.47
16:52:00	15:00	150	18.95	5.22	57.88	0.17	8.35	19.90	236.69
16:57:00	20:00	150	18.96	5.29	64.57	0.02	8.16	19.80	237.99
17:02:00	25:00	150	18.96	5.31	67.12	0.02	8.14	19.80	249.87
17:07:00	30:00	150	18.97	5.32	68.99	0.02	8.03	19.70	262.12
17:12:00	35:00	150	18.98	5.26	71.36	0.02	7.63	19.70	272.94
17:17:00	40:00	150	18.98	5.03	74.69	0.02	6.28	19.70	278.76
17:22:00	45:00	150	18.98	5.04	74.65	0.02	6.25	19.70	277.58
17:27:00	50:00	150	18.99	5.03	74.70	0.02	6.23	19.60	278.23

Constituent Sampled	Container	Number	Preservative
App III Metals	250 mL Plastic	1	HNO3
App IV Metals/Mercury	250 mL Plastic	1	HNO3
F, SO4, Cl	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04   1.5 = 0.09   2.5 = 0.26   3.5 = 0.50   6 = 1.47  
 1.25 = 0.06   2 = 0.16   3 = 0.37   4 = 0.65

**Well Information**

Well Location: \_\_\_\_\_ Well Locked at Arrival: \_\_\_\_\_  
 Condition of Well: \_\_\_\_\_ Well Locked at Departure: \_\_\_\_\_

# Groundwater Sampling Form

Updated : 8/16/2023 3:17:06 PM  
+00:00

<b>Project Number</b>	30143608	<b>Well ID</b>	YGWA-3I	<b>Date</b>	8/16/2023		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	It is Clear. The wind is blowing N at 5.8 mph. 72				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	48.85	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	53.13	<b>Total Depth (ft-bmp)</b>	59.05	<b>Water Column(ft)</b>	5.92	<b>Gallons in Well</b>	0.96
<b>MP Elevation</b>	796.55	<b>Pump Intake (ft-bmp)</b>	54	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Grab
<b>Sample Time</b>	10:50	<b>Well Volumes Purged</b>	0.91	<b>Sample ID</b>	YAT-YGWA-3I	<b>Sampled by</b>	David Prouty
<b>Purge Start</b>	10:05	<b>Gallons Purged</b>	0.87	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	10:45						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:05:00	00:00	100	53.7	7.34	232.33	0.02	7.33	18.60	216.33
10:10:00	05:00	80	54.2	7.30	290.92	0.02	2.31	18.10	214.83
10:15:00	10:00	80	53.8	7.33	279.46	0.05	1.50	18.50	158.07
10:20:00	15:00	80	53.65	7.35	264.04	0.02	1.33	19.50	144.12
10:25:00	20:00	80	53.65	7.37	240.62	0.02	0.81	19.40	-2.47
10:30:00	25:00	80	53.65	7.39	227.18	0.02	0.62	19.40	-31.47
10:35:00	30:00	80	53.64	7.39	216.94	0.02	0.57	19.30	-55.49
10:40:00	35:00	80	53.64	7.38	214.29	0.02	0.60	19.30	-61.05
10:45:00	40:00	80	53.64	7.39	211.10	0.02	0.61	19.20	-67.19

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III Metals	250 mL Plastic	1	HNO3
App IV metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** None

### Well Casing Volume Conversion

Well diameter (inches) = gallons per foot  
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

### Well Information

Well Location: \_\_\_\_\_ Well Locked at Arrival: \_\_\_\_\_  
 Condition of Well: \_\_\_\_\_ Well Locked at Departure: \_\_\_\_\_  
 Well Completion: \_\_\_\_\_ Key Number To Well: \_\_\_\_\_

# Groundwater Sampling Form

Updated : 8/16/2023 4:56:03 PM  
+00:00

<b>Project Number</b>	30143608	<b>Well ID</b>	YGWA-30I	<b>Date</b>	8/16/2023
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	78.8 degrees F and Clear. The wind is blowing NW at 5.8 mph.		
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	49.18	<b>Casing Diameter (in)</b>	2
<b>Static Water Level (ft-bmp)</b>	42.45	<b>Total Depth (ft-bmp)</b>	59.48	<b>Water Column(ft)</b>	17.03
<b>MP Elevation</b>	762.58	<b>Pump Intake (ft-bmp)</b>	54.5	<b>Purge Method</b>	Low-Flow
<b>Sample Time</b>	12:20	<b>Well Volumes Purged</b>	0.20	<b>Sample ID</b>	YAT-YGWA-30I
<b>Purge Start</b>	11:56	<b>Gallons Purged</b>	0.55	<b>Replicate/ Code No.</b>	
<b>Purge End</b>	12:17	<b>Color</b>	Clear		

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:56:00	00:00	100	42.45	5.53	41.77	0.02	7.00	18.90	243.62
12:01:00	05:00	100	42.45	5.54	41.80	0.02	7.05	19.00	249.49
12:07:00	10:53	100	42.45	5.53	41.73	0.74	7.05	19.20	254.67
12:12:00	15:53	100	42.45	5.53	41.65	0.27	7.06	19.00	258.78
12:17:00	20:53	100	42.45	5.55	41.65	0.23	7.07	19.10	260.93

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III Metals	250 mL Plastic	1	HNO3
App IV metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04   1.5 = 0.09   2.5 = 0.26   3.5 = 0.50   6 = 1.47  
 1.25 = 0.06   2 = 0.16   3 = 0.37   4 = 0.65

**Well Information**

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: _____	Key Number To Well: _____

# Groundwater Sampling Form

Updated : 8/17/2023 9:41:13 AM  
-04:00

<b>Project Number</b>	30143623	<b>Well ID</b>	YGWA-211	<b>Date</b>	08/15/2023		
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	77.0 degrees F and Clear. The wind is blowing W at 4.7 mph.			
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	69.6	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	31.78	<b>Total Depth (ft-bmp)</b>	79.9	<b>Water Column(ft)</b>	48.12	<b>Gallons in Well</b>	7.82
<b>MP Elevation</b>	783.7	<b>Pump Intake (ft-bmp)</b>	75	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	10:35	<b>Well Volumes Purged</b>	0.09	<b>Sample ID</b>	YGWA-211	<b>Sampled by</b>	Jessica Ware
<b>Purge Start</b>	10:06	<b>Gallons Purged</b>	0.69	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	10:32						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:06:00	00:00	200	31.78	7.22	173.14	1.16	7.85	26.3	184.83
10:11:00	05:00	100	33.15	6.77	182.86	2.15	1.51	22.2	-24.05
10:16:00	10:00	100	33.63	6.81	188.75	1.30	1.02	24.1	-73.15
10:21:00	15:00	100	34	6.85	187.55	1.15	0.77	23.9	-105.42
10:26:00	20:00	100	34.11	6.84	186.75	0.86	0.76	25.4	-98.83
10:31:00	25:00	100	34.19	6.84	184.65	0.02	0.79	25.8	-97.47

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Anions	250 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
App IV metals,Mercury	250 mL Plastic	1	HNO3

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04   1.5 = 0.09   2.5 = 0.26   3.5 = 0.50   6 = 1.47  
1.25 = 0.06   2 = 0.16   3 = 0.37   4 = 0.65

**Well Information**

Well Location: \_\_\_\_\_ Well Locked at Arrival: \_\_\_\_\_  
 Condition of Well: \_\_\_\_\_ Well Locked at Departure: \_\_\_\_\_  
 Well Completion: NA Key Number To Well: NA

# Groundwater Sampling Form

Updated : 8/15/2023 4:43:26 PM  
+00:00

<b>Project Number</b>	30143623	<b>Well ID</b>	YGWA-4I	<b>Date</b>	8/15/2023
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	83.1 degrees F and Mostly Cloudy. The wind is blowing NW at 4.7 mph.	
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	38.51	<b>Casing Diameter (in)</b>	2
<b>Static Water Level (ft-bmp)</b>	24.27	<b>Total Depth (ft-bmp)</b>	48.81	<b>Water Column(ft)</b>	24.54
<b>MP Elevation</b>	784.21	<b>Pump Intake (ft-bmp)</b>	45	<b>Purge Method</b>	Low-Flow
<b>Sample Time</b>	12:25	<b>Well Volumes Purged</b>	0.30	<b>Sample ID</b>	YAT-YGWA-4I
<b>Purge Start</b>	11:51	<b>Gallons Purged</b>	1.19	<b>Replicate/ Code No.</b>	
<b>Purge End</b>	12:21				
<b>Well Casing Material</b>	PVC				
<b>Gallons in Well</b>	3.99				
<b>Sample Method</b>	Low-Flow				
<b>Sampled by</b>	Kim Lapszynski				
<b>Color</b>	Clear				

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:51:00	00:00	150	24.27	6.60	159.44	0.02	5.72	20.60	126.80
11:56:00	05:00	150	25.54	6.01	168.76	0.02	1.94	18.70	159.52
12:01:00	10:00	150	25.82	6.00	169.94	0.02	1.41	18.30	166.27
12:06:00	15:00	150	26.07	6.02	167.15	0.02	1.67	18.00	170.11
12:11:00	20:00	150	26.12	6.05	163.14	0.02	2.33	18.10	172.95
12:16:00	25:00	150	26.23	6.03	161.34	0.02	2.30	18.00	174.57
12:21:00	30:00	150	26.27	5.99	157.86	0.02	2.37	18.00	175.97

Constituent Sampled	Container	Number	Preservative
App III metals	250 mL Plastic	1	HNO3
App IV Metals/Mercury	250 mL Plastic	1	HNO3
FI, SO4, Cl	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** Throughout purging, consistently bumped tested turbidity standards and all within range.

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: _____	Key Number To Well: _____

# Groundwater Sampling Form

Updated : 8/15/2023 6:55:07 PM  
+00:00

<b>Project Number</b>	30143623	<b>Well ID</b>	YGWA-18S	<b>Date</b>	8/15/2023		
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	88.2 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph.			
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	29.97	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	21.95	<b>Total Depth (ft-bmp)</b>	39.97	<b>Water Column(ft)</b>	18.02	<b>Gallons in Well</b>	2.93
<b>MP Elevation</b>	790.57	<b>Pump Intake (ft-bmp)</b>	35	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	14:35	<b>Well Volumes Purged</b>	0.36	<b>Sample ID</b>	YGWA-18S	<b>Sampled by</b>	Kim Lapszynski
<b>Purge Start</b>	14:07	<b>Gallons Purged</b>	1.06	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	14:28						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:07:00	00:00	200	21.95	6.60	65.27	1.78	7.27	24.70	188.86
14:12:00	05:00	200	23.08	5.18	62.97	0.02	3.88	19.00	183.25
14:17:00	10:00	200	23.41	5.19	64.09	0.02	3.36	18.70	183.33
14:22:00	15:00	200	23.48	5.20	64.04	0.12	3.25	18.50	184.52
14:27:00	20:00	200	23.53	5.20	64.20	0.02	3.28	18.60	184.94

Constituent Sampled	Container	Number	Preservative
App III metals	250 mL Plastic	1	HNO3
App IV Metals/Mercury	250 mL Plastic	1	HNO3
F, SO4, Cl	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: _____	Key Number To Well: _____



# Groundwater Sampling Form



Updated : 8/15/2023 7:59:42 PM  
+00:00

<b>Project Number</b>	30143623	<b>Well ID</b>	YGWA-18I	<b>Date</b>	8/15/2023
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	86.7 degrees F and Thunderstorms and Rain. The wind is blowing W at 4.7 mph.	
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	69.67	<b>Casing Diameter (in)</b>	2
<b>Static Water Level (ft-bmp)</b>	24.87	<b>Total Depth (ft-bmp)</b>	79.97	<b>Water Column(ft)</b>	55.10
<b>MP Elevation</b>	790.57	<b>Pump Intake (ft-bmp)</b>	75	<b>Purge Method</b>	Low-Flow
<b>Sample Time</b>	15:40	<b>Well Volumes Purged</b>	0.09	<b>Sample ID</b>	YGWA-18I
<b>Purge Start</b>	15:17	<b>Gallons Purged</b>	0.79	<b>Replicate/ Code No.</b>	
<b>Purge End</b>	15:37			<b>Color</b>	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:17:00	00:00	150	24.87	6.08	125.32	1.91	8.10	22.10	185.83
15:22:00	05:00	150	25.09	5.84	126.70	3.32	3.86	18.30	187.04
15:27:00	10:00	150	25.13	5.82	127.26	4.73	3.89	18.40	187.19
15:32:00	15:00	150	25.13	5.82	126.60	3.97	3.90	18.10	187.78
15:37:00	20:00	150	25.13	5.82	126.65	3.92	3.92	18.20	188.15

Constituent Sampled	Container	Number	Preservative
App III metals	250 mL Plastic	1	HNO3
App IV Metals/Mercury	250 mL Plastic	1	HNO3
F, SO4, Cl	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** None.

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04   1.5 = 0.09   2.5 = 0.26   3.5 = 0.50   6 = 1.47  
 1.25 = 0.06   2 = 0.16   3 = 0.37   4 = 0.65

**Well Information**

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: _____	Key Number To Well: _____

# Groundwater Sampling Form

Updated : 8/16/2023 9:28:25 PM  
+00:00

<b>Project Number</b>	30143623	<b>Well ID</b>	YGWA-5I	<b>Date</b>	8/15/2023		
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	77.0 degrees F and Clear. The wind is blowing W at 4.7 mph.			
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	48.64	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	20.59	<b>Total Depth (ft-bmp)</b>	58.94	<b>Water Column(ft)</b>	38.35	<b>Gallons in Well</b>	6.23
<b>MP Elevation</b>	784.54	<b>Pump Intake (ft-bmp)</b>	53	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	10:20	<b>Well Volumes Purged</b>	0.10	<b>Sample ID</b>	YAT-YGWA-5I	<b>Sampled by</b>	Kim Lapszynski
<b>Purge Start</b>	09:58	<b>Gallons Purged</b>	0.59	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	10:16						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:58:00	00:00	150	20.59	6.24	99.40	1.92	6.69	21.80	200.12
10:03:00	05:00	150	20.9	5.60	98.10	0.27	5.31	18.40	197.83
10:08:00	10:00	150	20.97	5.57	96.97	0.14	5.11	18.00	194.09
10:13:00	15:00	150	20.97	5.58	96.86	0.02	5.13	18.00	193.98

Constituent Sampled	Container	Number	Preservative
App III metals	250 mL Plastic	1	HNO3
App IV Metals/Mercury	250 mL Plastic	1	HNO3
F, SO4, Cl	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	250 mL Plastic	1	None

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: _____	Key Number To Well: _____

# Groundwater Sampling Form

Updated : 8/17/2023 1:39:20 PM  
+00:00

<b>Project Number</b>	30143623	<b>Well ID</b>	YGWA-40	<b>Date</b>	8/15/2023		
<b>Project Location</b>	AMA R6 CCR Landfill		<b>Weather(°F)</b>	75.2 degrees F and Thunderstorms. The wind is blowing W at 3.4 mph.			
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	37.73	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	23.72	<b>Total Depth (ft-bmp)</b>	48.23	<b>Water Column(ft)</b>	24.51	<b>Gallons in Well</b>	3.98
<b>MP Elevation</b>	815.73	<b>Pump Intake (ft-bmp)</b>	42	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	17:20	<b>Well Volumes Purged</b>	0.39	<b>Sample ID</b>	YAT-YGWA-40	<b>Sampled by</b>	Jessica Ware
<b>Purge Start</b>	16:49	<b>Gallons Purged</b>	1.53	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	17:59						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:49:00	00:00	200	23.72	4.75	129.29	0.02	0.71	19.00	131.14
16:54:00	05:00	150	24.47	4.71	126.66	0.65	0.19	19.00	163.54
16:59:00	10:00	150	24.46	4.77	125.97	0.02	0.13	19.00	179.51
17:04:00	15:00	150	24.47	4.85	126.09	0.02	0.10	18.80	187.78
17:09:00	20:00	150	24.47	4.91	126.01	0.02	0.10	18.80	193.46
17:14:00	25:00	150	24.48	4.96	126.01	0.02	0.08	18.80	197.16
17:19:00	30:00	150	24.48	5.00	125.51	0.02	0.08	18.70	199.02

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
App IV metalsMercury	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: _____	Key Number To Well: _____

# Groundwater Sampling Form

Updated : 8/17/2023 1:39:41 PM  
+00:00

<b>Project Number</b>	30143623	<b>Well ID</b>	YGWA-39	<b>Date</b>	8/15/2023		
<b>Project Location</b>	AMA R6 CCR Landfill		<b>Weather(°F)</b>	It is Thunderstorms and Rain. The wind is blowing W at 5.8 mph.			
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	58.09	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	17.68	<b>Total Depth (ft-bmp)</b>	68.59	<b>Water Column(ft)</b>	50.91	<b>Gallons in Well</b>	8.27
<b>MP Elevation</b>	818.19	<b>Pump Intake (ft-bmp)</b>	63	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	16:11	<b>Well Volumes Purged</b>	0.17	<b>Sample ID</b>	YAT-YGWA-39	<b>Sampled by</b>	Jessica Ware
<b>Purge Start</b>	15:46	<b>Gallons Purged</b>	1.37	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	16:07						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:46:00	00:00	200	17.68	6.34	309.57	1.50	5.32	25.20	130.29
15:51:00	05:00	200	17.77	5.83	414.64	1.19	0.84	20.80	96.27
15:56:00	10:00	200	17.98	5.78	420.91	0.27	0.25	19.90	91.80
16:01:00	15:00	200	18.03	5.78	423.68	0.13	0.13	19.60	88.26
16:06:00	20:00	200	18	5.78	421.12	0.02	0.11	19.60	87.17

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
App IV metalsMercury	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** None

### Well Casing Volume Conversion

Well diameter (inches) = gallons per foot  
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

### Well Information

Well Location:	_____	Well Locked at Arrival:	_____
Condition of Well:	_____	Well Locked at Departure:	_____
Well Completion:	_____	Key Number To Well:	_____

# Groundwater Sampling Form

Updated : 8/17/2023 1:40:24 PM  
+00:00

<b>Project Number</b>	30143623	<b>Well ID</b>	YGWA-17S	<b>Date</b>	8/15/2023
<b>Project Location</b>	AMA AP-3, A, B and B'	<b>Weather(°F)</b>	86.7 degrees F and Thunderstorms and Rain. The wind is blowing W at 4.7 mph.		
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	29.65	<b>Casing Diameter (in)</b>	2
<b>Static Water Level (ft-bmp)</b>	14.46	<b>Total Depth (ft-bmp)</b>	39.85	<b>Water Column(ft)</b>	25.39
<b>MP Elevation</b>	783.05	<b>Pump Intake (ft-bmp)</b>	35	<b>Purge Method</b>	Low-Flow
<b>Sample Time</b>	14:50	<b>Well Volumes Purged</b>	0.35	<b>Sample ID</b>	YGWA-17S
<b>Purge Start</b>	13:56	<b>Gallons Purged</b>	1.43	<b>Replicate/ Code No.</b>	
<b>Purge End</b>	14:48			<b>Color</b>	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:56:00	00:00	100	14.46	4.80	113.86	3.98	5.22	25.90	211.14
14:01:00	05:00	100	14.57	4.63	108.12	0.70	2.38	22.30	208.11
14:06:00	10:00	100	14.58	4.74	106.92	0.15	1.90	21.40	200.46
14:11:00	15:00	100	14.58	4.97	106.96	0.02	1.77	21.30	183.80
14:16:00	20:00	100	14.58	5.11	107.57	0.11	1.75	21.10	176.01
14:17:00	21:03	100	14.59	5.14	107.37	0.14	1.74	21.00	173.33
14:22:00	26:03	100	14.57	5.25	107.36	0.38	1.67	20.70	168.24
14:27:00	31:03	100	14.57	5.32	107.22	0.44	1.63	20.70	163.52
14:32:00	36:03	100	14.58	5.39	107.23	0.50	1.61	20.50	161.90
14:37:00	41:03	100	14.6	5.45	107.11	0.52	1.58	20.30	159.31
14:42:00	46:03	100	14.58	5.50	107.55	0.50	1.57	20.20	158.97
14:47:00	51:03	100	14.58	5.54	106.77	0.55	1.56	20.10	156.21

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
App IV metalsMercury	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: \_\_\_\_\_

Well Locked at Arrival: \_\_\_\_\_

# Groundwater Sampling Form

Updated : 8/17/2023 1:40:42 PM  
+00:00

<b>Project Number</b>	30143623	<b>Well ID</b>	YGWA-20S	<b>Date</b>	8/15/2023		
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	83.1 degrees F and Mostly Cloudy. The wind is blowing NW at 4.7 mph.			
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	19.22	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	11.5	<b>Total Depth (ft-bmp)</b>	29.52	<b>Water Column(ft)</b>	18.02	<b>Gallons in Well</b>	2.93
<b>MP Elevation</b>	767.12	<b>Pump Intake (ft-bmp)</b>	24.5	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	12:25	<b>Well Volumes Purged</b>	0.61	<b>Sample ID</b>	YGWA-20S	<b>Sampled by</b>	Jessica Ware
<b>Purge Start</b>	11:36	<b>Gallons Purged</b>	1.78	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	12:22						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:36:00	00:00	200	11.5	6.95	106.05	4.92	5.04	24.60	-1.00
11:41:00	05:00	150	12.02	6.21	55.12	8.80	7.06	19.80	61.55
11:46:00	10:00	125	12.1	6.31	54.89	5.86	7.13	19.20	79.47
11:51:00	15:00	125	12.12	6.51	54.54	2.37	7.13	19.20	86.02
11:56:00	20:00	125	12.13	6.68	54.41	1.78	7.12	18.90	91.18
12:01:00	25:00	125	12.12	6.78	54.33	1.52	7.12	18.90	94.38
12:06:00	30:00	125	12.14	6.86	54.32	1.42	7.06	19.50	97.38
12:11:00	35:00	125	12.15	6.92	54.24	1.35	7.10	19.10	97.76
12:16:00	40:00	125	12.13	6.97	54.09	1.33	7.10	19.10	100.78
12:21:00	45:00	125	12.12	7.00	53.89	1.21	7.01	19.40	104.40

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III metals	250mL HDPE Plastic	1	HNO3
App IV metalsMercury	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47  
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information**

Well Location: \_\_\_\_\_ Well Locked at Arrival: \_\_\_\_\_  
 Condition of Well: \_\_\_\_\_ Well Locked at Departure: \_\_\_\_\_  
 Well Completion: \_\_\_\_\_ Key Number To Well: \_\_\_\_\_

# Groundwater Sampling Form

Updated : 8/23/2023 5:04:37 PM  
+00:00

<b>Project Number</b>	30143623	<b>Well ID</b>	YGWA-5D	<b>Date</b>	8/15/2023
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	81.5 degrees F and Partly Cloudy. The wind is blowing undefined at 0.0 mph.	
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	78.83	<b>Casing Diameter (in)</b>	2
<b>Static Water Level (ft-bmp)</b>	20.8	<b>Total Depth (ft-bmp)</b>	129.13	<b>Water Column(ft)</b>	108.33
<b>MP Elevation</b>	784.53	<b>Pump Intake (ft-bmp)</b>	124	<b>Purge Method</b>	Low-Flow
<b>Sample Time</b>	11:13	<b>Well Volumes Purged</b>	0.06	<b>Sample ID</b>	YAT-YGWA-5D
<b>Purge Start</b>	10:49	<b>Gallons Purged</b>	1.06	<b>Replicate/ Code No.</b>	
<b>Purge End</b>	11:10				
<b>Well Casing Material</b>	PVC				
<b>Gallons in Well</b>	17.60				
<b>Sample Method</b>	Low-Flow				
<b>Sampled by</b>	Kim Lapszynski				
<b>Color</b>	Clear				

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:49:00	00:00	200	20.8	6.65	227.72	4.02	6.10	20.50	197.18
10:54:00	05:00	200	21.57	7.32	249.74	0.02	0.14	18.40	-138.90
10:59:00	10:00	200	21.59	7.38	246.03	0.02	0.07	18.30	-141.65
11:04:00	15:00	200	21.58	7.35	240.13	0.02	0.04	18.30	-148.25
11:09:00	20:00	200	21.58	7.34	238.56	0.02	0.03	18.20	-157.18

Constituent Sampled	Container	Number	Preservative
App III metals	250 mL Plastic	1	HNO3
App IV Metals/Mercury	250 mL Plastic	1	HNO3
F, SO4, Cl	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	Other

**Comments:** None

**Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot    1 = 0.04   1.5 = 0.09   2.5 = 0.26   3.5 = 0.50   6 = 1.47  
 1.25 = 0.06   2 = 0.16   3 = 0.37   4 = 0.65

**Well Information**

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: _____	Key Number To Well: _____



# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-2			
<b>Permit Number:</b>					
<b>Well ID:</b>		YGWA-1D			
<b>Person Gauging:</b>		Jake Swanson			
<b>Date:</b>		8/14/2023			
<b>Time:</b>		09:36:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA R6 CCR Landfill				
<b>Permit Number:</b>				
<b>Well ID:</b> YGWA-40				
<b>Person Gauging:</b> Kim Lapszynski				
<b>Date:</b> 8/14/2023				
<b>Time:</b> 15:38:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
	Area around well needs to be cleared.			
8	Date by when corrective actions are needed:			

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-2			
<b>Permit Number:</b>					
<b>Well ID:</b>		YGWA-11			
<b>Person Gauging:</b>		Jake Swanson			
<b>Date:</b>		8/14/2023			
<b>Time:</b>		09:56:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AP-2			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-2I					
<b>Person Gauging:</b> Jake Swanson					
<b>Date:</b> 8/14/2023					
<b>Time:</b> 10:01:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AP-2			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-3I					
<b>Person Gauging:</b> Jake Swanson					
<b>Date:</b> 8/14/2023					
<b>Time:</b> 10:08:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AP-2			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-3D					
<b>Person Gauging:</b> Jake Swanson					
<b>Date:</b> 8/14/2023					
<b>Time:</b> 10:10:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA AP-3, A, B and B'				
<b>Permit Number:</b>				
<b>Well ID:</b> YGWA-20S				
<b>Person Gauging:</b> Kim Lapszynski				
<b>Date:</b> 8/14/2023				
<b>Time:</b> 10:23:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
	Well area and path to well needs to be cleared of vegetation.			
8	Date by when corrective actions are needed:			



# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-2			
<b>Permit Number:</b>					
<b>Well ID:</b>		YGWA-14S			
<b>Person Gauging:</b>		Jake Swanson			
<b>Date:</b>		8/14/2023			
<b>Time:</b>		10:23:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
	Grass needs to be cut				
8	Date by when corrective actions are needed:				

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> Gypsum Landfill			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> GWA-2					
<b>Person Gauging:</b> Mark Chest					
<b>Date:</b> 8/14/2023					
<b>Time:</b> 10:33:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
	Needs new label				
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA AP-3, A, B and B'			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-211					
<b>Person Gauging:</b> Kim Lapszynski					
<b>Date:</b> 8/14/2023					
<b>Time:</b> 10:33:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
Well area needs to be cleared of vegetation.					
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AP-2			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-30I					
<b>Person Gauging:</b> Jake Swanson					
<b>Date:</b> 8/14/2023					
<b>Time:</b> 10:37:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
	Grass needs to be cut				
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA AP-3, A, B and B'			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-5D					
<b>Person Gauging:</b> Kim Lapszynski					
<b>Date:</b> 8/14/2023					
<b>Time:</b> 10:47:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA AP-3, A, B and B'				
<b>Permit Number:</b>				
<b>Well ID:</b> YGWA-5I				
<b>Person Gauging:</b> Kim Lapszynski				
<b>Date:</b> 8/14/2023				
<b>Time:</b> 10:48:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA AP-3, A, B and B'				
<b>Permit Number:</b>				
<b>Well ID:</b> YGWA-4I				
<b>Person Gauging:</b> Kim Lapszynski				
<b>Date:</b> 8/14/2023				
<b>Time:</b> 11:01:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
	Well area needs to be cleared.			
8	Date by when corrective actions are needed:			



# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA AP-3, A, B and B'				
<b>Permit Number:</b>				
<b>Well ID:</b> YGWA-18I				
<b>Person Gauging:</b> Kim Lapszynski				
<b>Date:</b> 8/14/2023				
<b>Time:</b> 12:01:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
	Need to clear area by well			
8	Date by when corrective actions are needed:			

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA AP-3, A, B and B'				
<b>Permit Number:</b>				
<b>Well ID:</b> YGWA-18S				
<b>Person Gauging:</b> Kim Lapszynski				
<b>Date:</b> 8/14/2023				
<b>Time:</b> 12:05:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
	Need to clear area by well.			
8	Date by when corrective actions are needed:			

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA AP-3, A, B and B'				
<b>Permit Number:</b>				
<b>Well ID:</b> YGWA-17S				
<b>Person Gauging:</b> Kim Lapszynski				
<b>Date:</b> 8/14/2023				
<b>Time:</b> 12:15:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
	Need to clear area by well.			
8	Date by when corrective actions are needed:			

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-1			
<b>Permit Number:</b>					
<b>Well ID:</b>		YGWA-47			
<b>Person Gauging:</b>		Mark Chest			
<b>Date:</b>		8/14/2023			
<b>Time:</b>		12:15:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

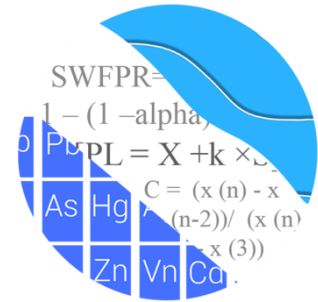
# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA R6 CCR Landfill			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-39					
<b>Person Gauging:</b> Kim Lapszynski					
<b>Date:</b> 8/14/2023					
<b>Time:</b> 15:32:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
Area around well needs to be cleared.					
8 Date by when corrective actions are needed:					

# Appendix C

## Statistical Analysis

## GROUNDWATER STATS CONSULTING



February 28, 2024

Southern Company Services  
Attn: Ms. Lauren Hartley  
241 Ralph McGill Blvd NE, Bin 10160  
Atlanta, Georgia 30308-3374

Re: Plant Yates Ash Pond 1 (AP-1)  
August 2023 Sample Event Analysis

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2023 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates AP-1. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
  - **AP-1:** YGWA-47
  - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S and, YGWA-30I



- **Gypsum Landfill:** GWA-2
- **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
- **Downgradient wells:** YGWC-44, YGWC-45, YGWC-46A, and YGWC-52

Note that well YGWC-52 was installed in June 2020, and baseline sampling began in August 2020. Well YGWC-46 was abandoned in June 2020, and baseline sampling began at well YGWC-46A in July 2020 to supplement existing data in well YGWC-46. In the current analysis, reported observations from the August 2023 sample event for Appendix III constituents at all downgradient wells are compared to interwell prediction limits for Appendix III constituents. Data from downgradient wells YGWC-46 and YGWC-46A were combined and are plotted under well YGWC-46A.

Confidence intervals have been used to evaluate the combined data from both wells YGWC-46 and YGWC-46A for the Appendix IV constituents. All concentrations from both wells are below established Maximum Concentrations Limits (MCLs). When a minimum of 8 samples were collected from new well YGWC-46A, the Mann-Whitney test of medians was used to evaluate whether the medians of both wells were statistically different for Appendix IV constituents. In cases where statistically significant differences were identified at the 99% confidence level, the historical record was truncated so that only data from new well YGWC-46A, which may be more representative of present-day groundwater quality, are evaluated with confidence interval comparisons to respective Groundwater Protection Standards. This process is described below.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Senior Statistician and Founder of Groundwater Stats Consulting.

The CCR program consists of the constituents listed below. The terms “parameters” and “constituents” are used interchangeably.

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs with 100% non-detects follows this letter. For all constituents, a

substitution of the most recent reporting limit is used for non-detect data and this generally gives the most conservative limit in each case. For interwell prediction and tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter. Regarding the case of cobalt, due to varying detection limits in individual wells, the most recent reporting limit of 0.005 mg/L was substituted across all wells for all calculations and reports. During this event, elevated reporting limits occurred for beryllium, boron, and lithium due to higher dilution factors at some wells; therefore, current reporting limits of 0.0005 mg/L, 0.04 mg/L, and 0.03 mg/L were substituted across all wells for each respective constituent.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

### **Summary of Statistical Methods – Appendix III and IV Parameters**

Based on the April 2019 evaluation and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric prediction limits is based on an annual 10% (5% per semi-annual event) as

recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric prediction limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

## **Summary of Background Screening – Appendix III and IV Constituents - Conducted in April 2019**

### Outlier Analysis

For the original well network which consisted of upgradient well YGWA-47 and downgradient wells YGWC-44, YGWC-45, and YGWC-46, time series plots were used to identify suspected outliers or extreme values that would result in limits that are not representative of the current background data population. All other upgradient well data from neighboring units were previously screened for outliers with their respective reports. Suspected outliers at all wells for Appendix III and IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database

with “o” and deselected prior to construction of statistical limits. Tukey’s test results followed the screening.

Using the Tukey box plot method, a couple outliers were identified. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory’s Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

The reported non-detect value of 0.01 mg/L for cobalt at well YGWC-45 and the detected value of 6.3 s.u. for pH at well YGWA-47 were flagged as outliers because they were both unusually high during a single event compared to all other values at neighboring wells. The high non-detect value for cobalt does not provide any useful information. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well.

### Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

### Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen’s Slope/Mann Kendall trend test was used to evaluate all data at upgradient well YGWA-47 and downgradient wells YGWC-44, YGWC-45, and YGWC-46 to identify whether statistically significant increasing or decreasing trends were present. The trend analyses showed a statistically significant increasing trend for lithium in well YGWC-46.

The reports were submitted with the background screening analysis, and all other upgradient wells at neighboring units were evaluated for trends with their respective reports. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to

determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. While no records required adjustment at the time of the screening, if that is necessary in the future, a summary report will be provided to show the date ranges used in construction of the statistical limits.

### Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) is typically used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach (interwell or intrawell). However, only one upgradient well was present at the time of the screening and the ANOVA requires a minimum of two wells. Therefore, the ANOVA was not utilized in the background screening.

Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

### **Statistical Analysis of Appendix III Parameters – August 2023**

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged for Appendix III parameters, and a summary of flagged outliers follows this report (Figure C).

### Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through August 2023 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result. Therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-44, YGWC-45, and YGWC-46A
- Calcium: YGWC-45 and YGWC-46A
- Chloride: YGWC-44 and YGWC-46A
- Sulfate: YGWC-46A
- TDS: YGWC-44, YGWC-45, YGWC-46A, and YGWC-52

#### Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. The following statistically significant trends were identified:

##### Increasing

- Boron: YGWA-39 (upgradient)
- Calcium: GWA-2, YGWA-1D, YGWA-5I, YGWA-17S, YGWA-21I, YGWA-39 (all upgradient) and YGWC-46A
- Chloride: GWA-2, YGWA-17S, YGWA-18I, YGWA-20S, and YGWA-40 (all upgradient)
- Sulfate: GWA-2, YGWA-1D, YGWA-2I, YGWA-3D, YGWA-3I, and YGWA-5I (all upgradient)
- TDS: YGWA-21I and YGWA-39 (both upgradient)

## Decreasing

- Boron: YGWA-40 (upgradient)
- Calcium: YGWA-1I, YGWA-5D, YGWA-18S, and YGWA-47 (all upgradient)
- Chloride: YGWA-3D, YGWA-5D, and YGWA-47 (all upgradient)
- Sulfate: YGWA-5D, YGWA-18I, YGWA-39, YGWA-40, and YGWA-47 (all upgradient)
- TDS: YGWA-47 (upgradient)

## **Statistical Analysis of Appendix IV Parameters – August 2023**

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Downgradient well/constituent pairs that have 100% non-detects do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

The reported measurements of cobalt from August 2020 through August 2022 in upgradient well GWA-2 were previously flagged as outliers as these measurements were substantially higher than remaining measurements at this well. This step results in statistical limits that are conservative (i.e., lower) from a regulatory perspective. If further studies indicate these measurements represent spatial variation in groundwater quality, the values will be re-evaluated for construction of interwell prediction limits. No additional values were flagged as outliers and a summary of flagged outliers follows this report (Figure C).

### Mann-Whitney Test of Medians

During previous analyses, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of observations sampled before July 2020 at abandoned well YGWC-46 to the medians of the 8 most recent observations sampled at well YGWC-46A, when available, for each Appendix IV parameter. When no variation was present between historical data and compliance samples, the Mann-Whitney test was not performed, which was the case for beryllium, chromium, and selenium. Significant differences were identified for barium, cobalt, and lithium at the 99% confidence level; therefore, the records were not combined and only use the more recent measurements at well YGWC-46A. The earlier data are shown on the time series as disconnected point and in a lighter font on the data pages.

During this analysis, cadmium, mercury, and thallium were analyzed with the Mann-Whitney test to compare the medians of observations sampled before July 2020 at



abandoned well YGWC-46 to the medians the 8 most recent observations sampled at well YGWC-46A through August 2023 (Figure F). When the medians of the two groups are statistically significantly different at the 99% confidence level (such as barium, cobalt, and lithium), the historical data sampled from abandoned well YGWC-46 are truncated to only use data from well YGWC-46A. No significant results were identified for; therefore, no truncation was required. As of the current analysis, all Appendix IV constituents have been evaluated with the Mann-Whitney test of medians at well YGWC-46A. A list of the constituents using truncated records follows this report.

### Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2023 for Appendix IV constituents (Figure G). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. When the alpha level (or false positive rate) for a nonparametric limit is shown as NaN in the results table, it indicates that the background sample size is large enough such that the resulting alpha level is too small to display in the results table.

### Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure H).

### Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through August 2023 were constructed for each of the Appendix IV constituents in each downgradient well with 4 or more samples (Figure I). Beryllium and selenium were 100% non-detects at all downgradient wells.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. No exceedances were identified.

### Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable. Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater

quality unrelated to practices at the site. Since no exceedances were identified, no trend tests were required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew T. Collins  
Project Manager



Kristina L. Rayner  
Senior Statistician

# 100% Non-Detects: Appendix IV Downgradient

Analysis Run 10/9/2023 7:13 PM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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Antimony (mg/L)  
YGWC-52

Arsenic (mg/L)  
YGWC-52

Beryllium (mg/L)  
YGWC-44, YGWC-45, YGWC-46A, YGWC-52

Cadmium (mg/L)  
YGWC-44, YGWC-45, YGWC-52

Chromium (mg/L)  
YGWC-44, YGWC-46A

Lead (mg/L)  
YGWC-44

Mercury (mg/L)  
YGWC-52

Selenium (mg/L)  
YGWC-44, YGWC-45, YGWC-46A, YGWC-52

Thallium (mg/L)  
YGWC-45, YGWC-52

# Date Ranges

Date: 10/9/2023 5:48 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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Barium (mg/L)

YGWC-46A overall:7/6/2020-8/15/2023

Cobalt (mg/L)

YGWC-46A overall:7/6/2020-8/15/2023

Lithium (mg/L)

YGWC-46A overall:7/6/2020-8/15/2023

# Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/9/2023, 6:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform Alpha	Method
Boron, total (mg/L)	YGWC-44	0.16	n/a	8/15/2023	0.6	Yes	388	51.03	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
Boron, total (mg/L)	YGWC-45	0.16	n/a	8/15/2023	0.36	Yes	388	51.03	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
Boron, total (mg/L)	YGWC-46A	0.16	n/a	8/15/2023	2.1	Yes	388	51.03	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	YGWC-45	37	n/a	8/15/2023	46.3	Yes	388	0.7732	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
Calcium, total (mg/L)	YGWC-46A	37	n/a	8/15/2023	111	Yes	388	0.7732	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	YGWC-44	12	n/a	8/15/2023	13.4	Yes	388	0	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	YGWC-46A	12	n/a	8/15/2023	32.2	Yes	388	0	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	YGWC-46A	160	n/a	8/15/2023	419	Yes	388	5.928	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-44	220.5	n/a	8/15/2023	319	Yes	388	0.5155	None	x^(1/3)	0.00188 Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-45	220.5	n/a	8/15/2023	404	Yes	388	0.5155	None	x^(1/3)	0.00188 Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-46A	220.5	n/a	8/15/2023	945	Yes	388	0.5155	None	x^(1/3)	0.00188 Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-52	220.5	n/a	8/15/2023	267	Yes	388	0.5155	None	x^(1/3)	0.00188 Param Inter 1 of 2

# Appendix III Interwell Prediction Limits - All Results

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/9/2023, 6:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform Alpha	Method
<b>Boron, total (mg/L)</b>	<b>YGWC-44</b>	<b>0.16</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>0.6</b>	<b>Yes</b>	<b>388</b>	<b>51.03</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>YGWC-45</b>	<b>0.16</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>0.36</b>	<b>Yes</b>	<b>388</b>	<b>51.03</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>YGWC-46A</b>	<b>0.16</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>2.1</b>	<b>Yes</b>	<b>388</b>	<b>51.03</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (NDs) 1 of 2</b>
Boron, total (mg/L)	YGWC-52	0.16	n/a	8/15/2023	0.014J	No	388	51.03	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	YGWC-44	37	n/a	8/15/2023	30	No	388	0.7732	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>YGWC-45</b>	<b>37</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>46.3</b>	<b>Yes</b>	<b>388</b>	<b>0.7732</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>YGWC-46A</b>	<b>37</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>111</b>	<b>Yes</b>	<b>388</b>	<b>0.7732</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (normality) 1 of 2</b>
Calcium, total (mg/L)	YGWC-52	37	n/a	8/15/2023	34.6	No	388	0.7732	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
<b>Chloride, Total (mg/L)</b>	<b>YGWC-44</b>	<b>12</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>13.4</b>	<b>Yes</b>	<b>388</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (normality) 1 of 2</b>
Chloride, Total (mg/L)	YGWC-45	12	n/a	8/15/2023	5.6	No	388	0	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
<b>Chloride, Total (mg/L)</b>	<b>YGWC-46A</b>	<b>12</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>32.2</b>	<b>Yes</b>	<b>388</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (normality) 1 of 2</b>
Chloride, Total (mg/L)	YGWC-52	12	n/a	8/15/2023	3	No	388	0	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	YGWC-44	0.68	n/a	8/15/2023	0.1ND	No	457	64.33	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-45	0.68	n/a	8/15/2023	0.07J	No	457	64.33	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-46A	0.68	n/a	8/15/2023	0.12	No	457	64.33	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-52	0.68	n/a	8/15/2023	0.1ND	No	457	64.33	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
pH, Field (S.U.)	YGWC-44	8.39	4.4	8/15/2023	5.79	No	467	0	n/a	n/a	0.00009844 NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-45	8.39	4.4	8/15/2023	6.97	No	467	0	n/a	n/a	0.00009844 NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-46A	8.39	4.4	8/15/2023	7.51	No	467	0	n/a	n/a	0.00009844 NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-52	8.39	4.4	8/15/2023	6.05	No	467	0	n/a	n/a	0.00009844 NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	YGWC-44	160	n/a	8/15/2023	113	No	388	5.928	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	YGWC-45	160	n/a	8/15/2023	154	No	388	5.928	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWC-46A</b>	<b>160</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>419</b>	<b>Yes</b>	<b>388</b>	<b>5.928</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (normality) 1 of 2</b>
Sulfate as SO4 (mg/L)	YGWC-52	160	n/a	8/15/2023	96.5	No	388	5.928	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-44</b>	<b>220.5</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>319</b>	<b>Yes</b>	<b>388</b>	<b>0.5155</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.00188 Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-45</b>	<b>220.5</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>404</b>	<b>Yes</b>	<b>388</b>	<b>0.5155</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.00188 Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-46A</b>	<b>220.5</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>945</b>	<b>Yes</b>	<b>388</b>	<b>0.5155</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.00188 Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-52</b>	<b>220.5</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>267</b>	<b>Yes</b>	<b>388</b>	<b>0.5155</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.00188 Param Inter 1 of 2</b>



# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/9/2023, 6:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron, total (mg/L)	YGWA-39 (bg)	0.02058	92	68	Yes	18	5.556	n/a	0.01	NP
Boron, total (mg/L)	YGWA-40 (bg)	-0.01353	-106	-68	Yes	18	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-47 (bg)	-1.099	-122	-68	Yes	18	5.556	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-17S (bg)	0.134	143	87	Yes	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-18S (bg)	-0.0757	-147	-87	Yes	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-211 (bg)	0.6806	92	87	Yes	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-39 (bg)	2.124	86	68	Yes	18	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-5D (bg)	-1.349	-113	-87	Yes	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-5I (bg)	0.06491	106	87	Yes	21	0	n/a	0.01	NP
Calcium, total (mg/L)	GWA-2 (bg)	2.437	87	74	Yes	19	5.263	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1D (bg)	0.4931	94	87	Yes	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1I (bg)	-0.08927	-112	-87	Yes	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWC-46A	2.352	105	92	Yes	22	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-47 (bg)	-0.3827	-108	-68	Yes	18	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-17S (bg)	0.6794	162	87	Yes	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-18I (bg)	0.08671	96	87	Yes	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-20S (bg)	0.1049	130	87	Yes	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-40 (bg)	0.3111	91	68	Yes	18	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-5D (bg)	-0.6409	-159	-87	Yes	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-2 (bg)	0.2897	101	74	Yes	19	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-3D (bg)	-0.03797	-98	-87	Yes	21	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-47 (bg)	-13.93	-138	-68	Yes	18	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-18I (bg)	-0.1191	-112	-87	Yes	21	19.05	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-39 (bg)	-2.62	-107	-68	Yes	18	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-40 (bg)	-7.156	-120	-68	Yes	18	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5D (bg)	-2.402	-162	-87	Yes	21	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5I (bg)	0.08787	138	87	Yes	21	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-2 (bg)	12.89	88	74	Yes	19	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-1D (bg)	0.8971	154	87	Yes	21	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-2I (bg)	1.209	91	87	Yes	21	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3D (bg)	0.2566	105	87	Yes	21	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3I (bg)	1.155	119	87	Yes	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-47 (bg)	-12.84	-95	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-211 (bg)	9.895	91	87	Yes	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-39 (bg)	27.52	85	68	Yes	18	0	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/9/2023, 6:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron, total (mg/L)	YGWA-47 (bg)	-0.0005874	-51	-68	No	18	5.556	n/a	0.01	NP
Boron, total (mg/L)	YGWC-44	-0.01408	-55	-68	No	18	0	n/a	0.01	NP
Boron, total (mg/L)	YGWC-45	0.001634	20	68	No	18	0	n/a	0.01	NP
Boron, total (mg/L)	YGWA-17S (bg)	0.0004386	55	87	No	21	14.29	n/a	0.01	NP
Boron, total (mg/L)	YGWA-18I (bg)	0	-14	-87	No	21	80.95	n/a	0.01	NP
Boron, total (mg/L)	YGWA-18S (bg)	0.0006414	54	87	No	21	28.57	n/a	0.01	NP
Boron, total (mg/L)	YGWA-20S (bg)	0	-5	-87	No	21	90.48	n/a	0.01	NP
Boron, total (mg/L)	YGWA-21I (bg)	0	-28	-87	No	21	57.14	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>0.02058</b>	<b>92</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>5.556</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>-0.01353</b>	<b>-106</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	YGWA-4I (bg)	0	13	87	No	21	71.43	n/a	0.01	NP
Boron, total (mg/L)	YGWA-5D (bg)	0.0006284	65	87	No	21	19.05	n/a	0.01	NP
Boron, total (mg/L)	YGWA-5I (bg)	0	-11	-87	No	21	66.67	n/a	0.01	NP
Boron, total (mg/L)	GWA-2 (bg)	0	35	74	No	19	68.42	n/a	0.01	NP
Boron, total (mg/L)	YGWA-14S (bg)	-0.0004045	-54	-87	No	21	9.524	n/a	0.01	NP
Boron, total (mg/L)	YGWA-1D (bg)	0.001652	58	87	No	21	42.86	n/a	0.01	NP
Boron, total (mg/L)	YGWA-1I (bg)	0	-13	-87	No	21	71.43	n/a	0.01	NP
Boron, total (mg/L)	YGWA-2I (bg)	0	2	87	No	21	80.95	n/a	0.01	NP
Boron, total (mg/L)	YGWA-30I (bg)	0	-13	-87	No	21	85.71	n/a	0.01	NP
Boron, total (mg/L)	YGWA-3D (bg)	0	16	87	No	21	61.9	n/a	0.01	NP
Boron, total (mg/L)	YGWA-3I (bg)	0	-13	-87	No	21	90.48	n/a	0.01	NP
Boron, total (mg/L)	YGWC-46A	0.07878	74	92	No	22	0	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-1.099</b>	<b>-122</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>5.556</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWC-45	-0.4199	-37	-68	No	18	0	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-17S (bg)</b>	<b>0.134</b>	<b>143</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-18I (bg)	0.05034	39	87	No	21	0	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-18S (bg)</b>	<b>-0.0757</b>	<b>-147</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-20S (bg)	0.02165	43	87	No	21	0	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-21I (bg)</b>	<b>0.6806</b>	<b>92</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>2.124</b>	<b>86</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-40 (bg)	-0.3452	-49	-68	No	18	5.556	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-4I (bg)	0.02012	12	87	No	21	0	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-1.349</b>	<b>-113</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>YGWA-5I (bg)</b>	<b>0.06491</b>	<b>106</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>2.437</b>	<b>87</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>5.263</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-14S (bg)	0	18	87	No	21	0	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-1D (bg)</b>	<b>0.4931</b>	<b>94</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>YGWA-1I (bg)</b>	<b>-0.08927</b>	<b>-112</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-2I (bg)	0	1	87	No	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-30I (bg)	0.02343	63	87	No	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-3D (bg)	0.2668	48	87	No	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-3I (bg)	0.5543	85	87	No	21	0	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWC-46A</b>	<b>2.352</b>	<b>105</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-0.3827</b>	<b>-108</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWC-44	0.1457	52	68	No	18	0	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-17S (bg)</b>	<b>0.6794</b>	<b>162</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>YGWA-18I (bg)</b>	<b>0.08671</b>	<b>96</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-18S (bg)	0.1048	63	87	No	21	0	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-20S (bg)</b>	<b>0.1049</b>	<b>130</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-21I (bg)	-0.07755	-57	-87	No	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-39 (bg)	0.699	68	68	No	18	0	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>0.3111</b>	<b>91</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-4I (bg)	0.05782	58	87	No	21	0	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-0.6409</b>	<b>-159</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-5I (bg)	0	6	87	No	21	0	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/9/2023, 6:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
<b>Chloride, Total (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>0.2897</b>	<b>101</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-14S (bg)	0.102	55	87	No	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-1D (bg)	0	-24	-87	No	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-1I (bg)	0	-25	-87	No	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-2I (bg)	-0.01766	-41	-87	No	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-30I (bg)	-0.01564	-40	-87	No	21	0	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-3D (bg)</b>	<b>-0.03797</b>	<b>-98</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-3I (bg)	-0.02296	-79	-87	No	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWC-46A	-0.2173	-10	-92	No	22	0	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-13.93</b>	<b>-138</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-17S (bg)	0	5	87	No	21	0	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-18I (bg)</b>	<b>-0.1191</b>	<b>-112</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>19.05</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-18S (bg)	-0.112	-71	-87	No	21	9.524	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-20S (bg)	0	54	87	No	21	71.43	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-21I (bg)	-0.1972	-61	-87	No	21	0	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>-2.62</b>	<b>-107</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>-7.156</b>	<b>-120</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-4I (bg)	0.0251	16	87	No	21	0	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-2.402</b>	<b>-162</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-5I (bg)</b>	<b>0.08787</b>	<b>138</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>12.89</b>	<b>88</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-14S (bg)	-0.04669	-29	-87	No	21	0	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-1D (bg)</b>	<b>0.8971</b>	<b>154</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-1I (bg)	-0.06392	-13	-87	No	21	0	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-2I (bg)</b>	<b>1.209</b>	<b>91</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-30I (bg)	-0.03548	-33	-87	No	21	9.524	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-3D (bg)</b>	<b>0.2566</b>	<b>105</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-3I (bg)</b>	<b>1.155</b>	<b>119</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWC-46A	-34.63	-90	-92	No	22	4.545	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-12.84</b>	<b>-95</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	YGWC-44	-2.924	-24	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-45	0	-2	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-17S (bg)	2.283	46	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-18I (bg)	-1.363	-33	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-18S (bg)	1.344	26	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-20S (bg)	2.575	48	87	No	21	0	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWA-21I (bg)</b>	<b>9.895</b>	<b>91</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>27.52</b>	<b>85</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	YGWA-40 (bg)	-6.016	-59	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-4I (bg)	0.6864	14	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-5D (bg)	-9.186	-72	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-5I (bg)	-0.77	-20	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GWA-2 (bg)	14.49	72	74	No	19	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-14S (bg)	0.8282	30	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-1D (bg)	2.147	46	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-1I (bg)	-0.3083	-7	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-2I (bg)	-0.5892	-11	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-30I (bg)	1.322	26	87	No	21	9.524	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-3D (bg)	1.819	27	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-3I (bg)	1.056	15	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-46A	-24.27	-33	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-52	-28.5	-29	-30	No	10	0	n/a	0.01	NP

# Welch's t-test/Mann-Whitney - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/9/2023, 6:00 PM

<u>Constituent</u>	<u>Well</u>	<u>Calc.</u>	<u>0.01</u>	<u>Alpha</u>	<u>Sig.</u>	<u>Method</u>
Cadmium (mg/L)	YGWC-46A	1.497	No	0.01	No	Mann-W
Mercury (mg/L)	YGWC-46A	0.825	No	0.01	No	Mann-W
Thallium (mg/L)	YGWC-46A	-1.279	No	0.01	No	Mann-W

# Upper Tolerance Limits - Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/9/2023, 7:07 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform Alpha	Method	
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	410	88.54	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	458	75.76	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.21	n/a	n/a	n/a	458	2.402	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0011	n/a	n/a	n/a	442	79.86	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	442	94.8	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	410	80.73	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	452	69.03	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	437	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.68	n/a	n/a	n/a	457	64.33	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	412	86.65	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	437	26.77	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	366	89.07	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	401	61.1	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	440	92.73	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	376	97.34	n/a	n/a	NaN	NP Inter(NDs)

<b>YATES ASH POND 1 GWPS</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*\*Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

*\*MCL = Maximum Contaminant Level*

*\*CCR = Coal Combustion Residual*

*\*GWPS = Groundwater Protection Standard*

# Appendix IV Confidence Intervals - All Results (No Significant)

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/9/2023, 7:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-44	0.003	0.0023	0.006	No	17	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-45	0.003	0.0017	0.006	No	17	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-46A	0.003	0.00029	0.006	No	20	95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-44	0.005	0.00086	0.01	No	19	73.68	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-45	0.005	0.00078	0.01	No	19	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-46A	0.005	0.001	0.01	No	22	40.91	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-44	0.1101	0.09103	2	No	19	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-45	0.06806	0.05568	2	No	19	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-46A	0.04616	0.03984	2	No	11	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-52	0.02018	0.01742	2	No	10	0	None	No	0.01	Param.
Cadmium (mg/L)	YGWC-46A	0.0005	0.00012	0.005	No	19	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-45	0.0061	0.0006	0.1	No	17	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-52	0.005	0.00086	0.1	No	10	50	None	No	0.011	NP (normality)
Cobalt (mg/L)	YGWC-44	0.003381	0.001627	0.035	No	19	5.263	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-45	0.000818	0.0006275	0.035	No	18	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-46A	0.002491	0.0007833	0.035	No	11	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-52	0.001914	0.001048	0.035	No	10	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-44	0.9134	0.2928	6.92	No	19	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-45	1.465	0.9578	6.92	No	19	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-46A	1.728	1.124	6.92	No	22	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-52	0.8689	0.3907	6.92	No	9	0	None	x^5	0.01	Param.
Fluoride, total (mg/L)	YGWC-44	0.12	0.07	4	No	20	75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	YGWC-45	0.1826	0.07598	4	No	20	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	YGWC-46A	0.1014	0.03761	4	No	23	21.74	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	YGWC-52	0.1	0.063	4	No	10	80	Kaplan-Meier	No	0.011	NP (NDs)
Lead (mg/L)	YGWC-45	0.001	0.0001	0.015	No	17	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-46A	0.001	0.000044	0.015	No	20	95	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-52	0.001	0.000064	0.015	No	10	60	None	No	0.011	NP (NDs)
Lithium (mg/L)	YGWC-44	0.01348	0.01258	0.04	No	19	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-45	0.014	0.012	0.04	No	19	0	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-46A	0.01391	0.01154	0.04	No	11	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-52	0.004556	0.003784	0.04	No	10	0	None	No	0.01	Param.
Mercury (mg/L)	YGWC-44	0.0002	0.00006	0.002	No	15	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-45	0.0002	0.000071	0.002	No	15	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-46A	0.0002	0.00007	0.002	No	17	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-44	0.01	0.0005	0.1	No	19	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-45	0.0024	0.0011	0.1	No	19	15.79	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-46A	0.003199	0.001891	0.1	No	22	13.64	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-52	0.01	0.01	0.1	No	10	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	YGWC-44	0.001	0.00008	0.002	No	17	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-46A	0.001	0.000073	0.002	No	19	94.74	None	No	0.01	NP (NDs)

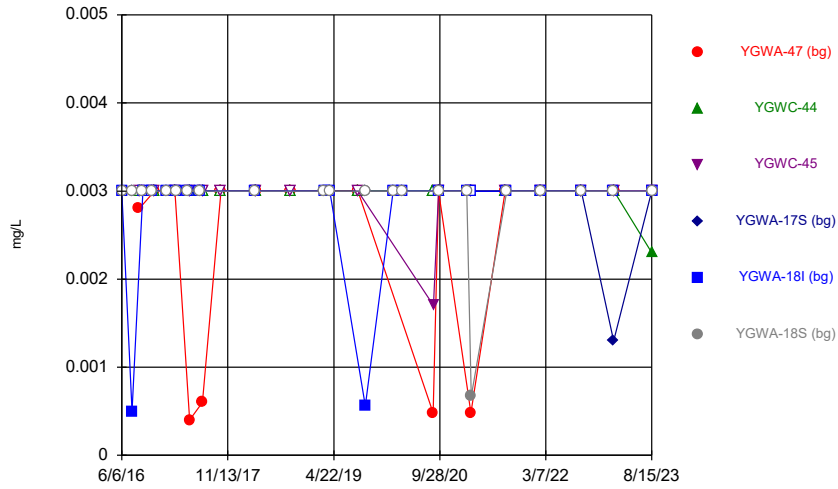


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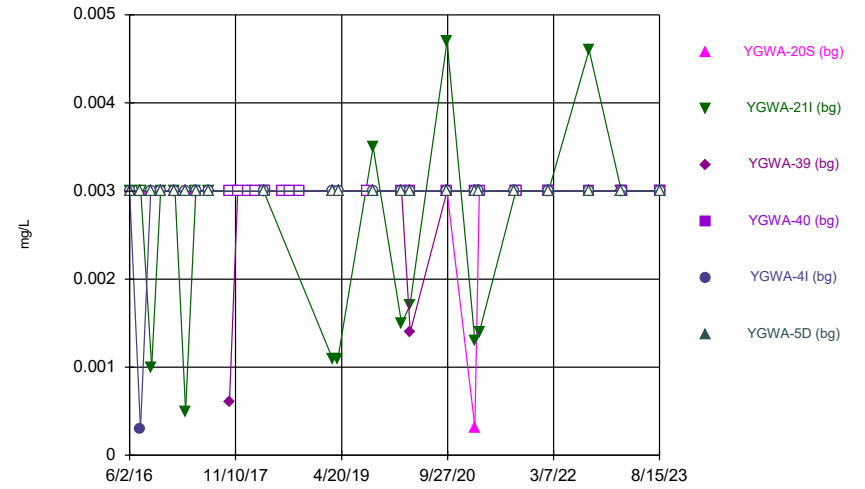
FIGURE A.

### Time Series



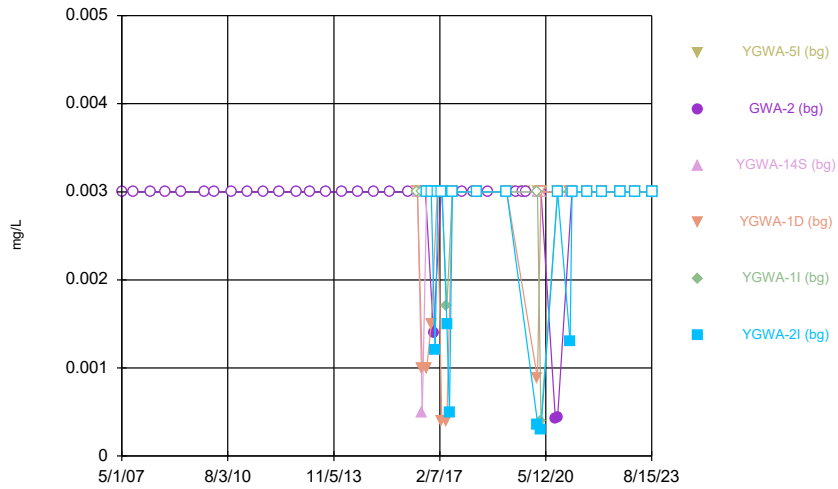
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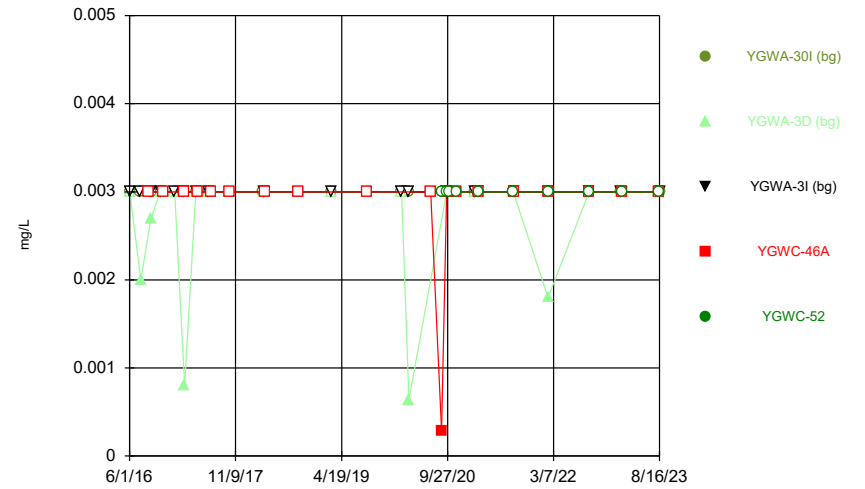
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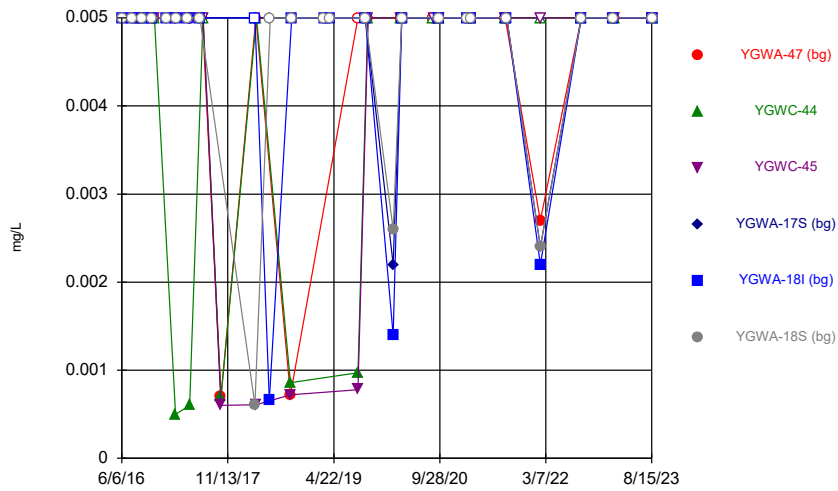
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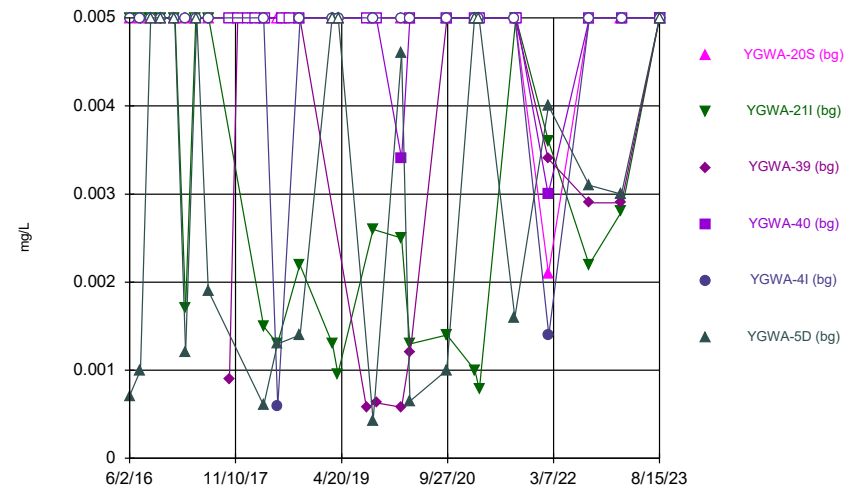
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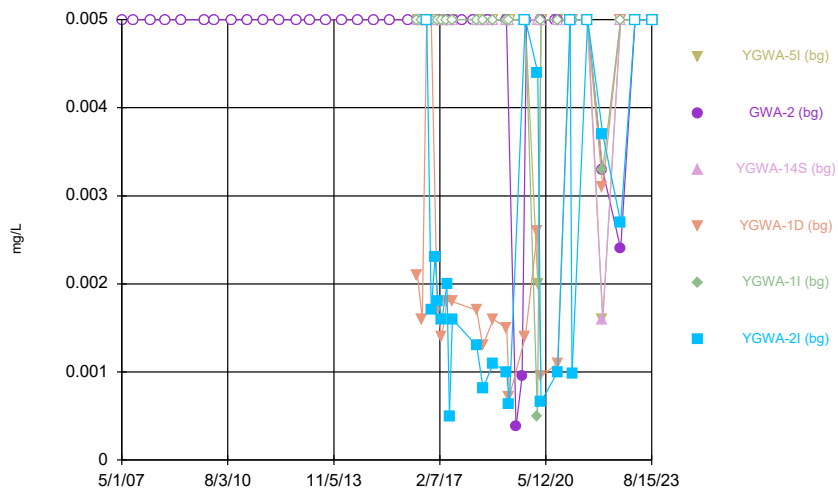
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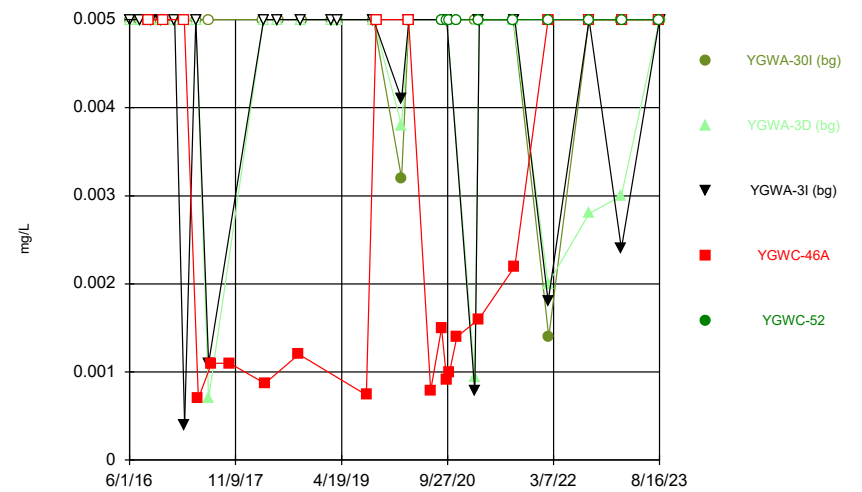
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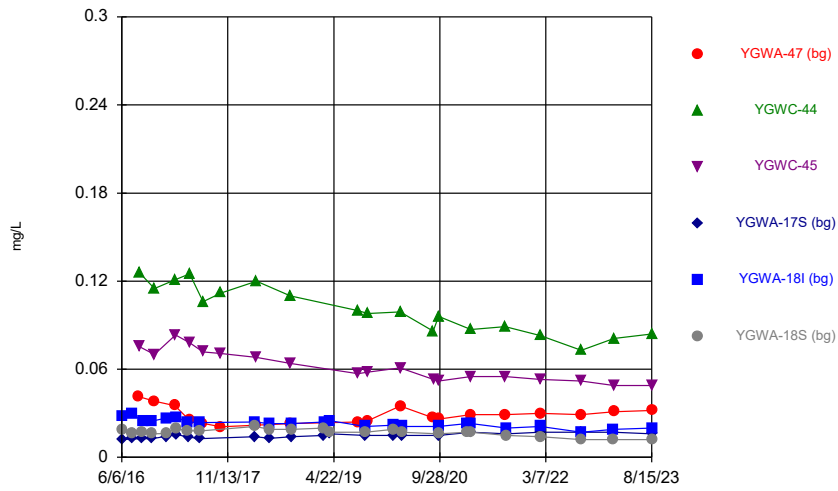
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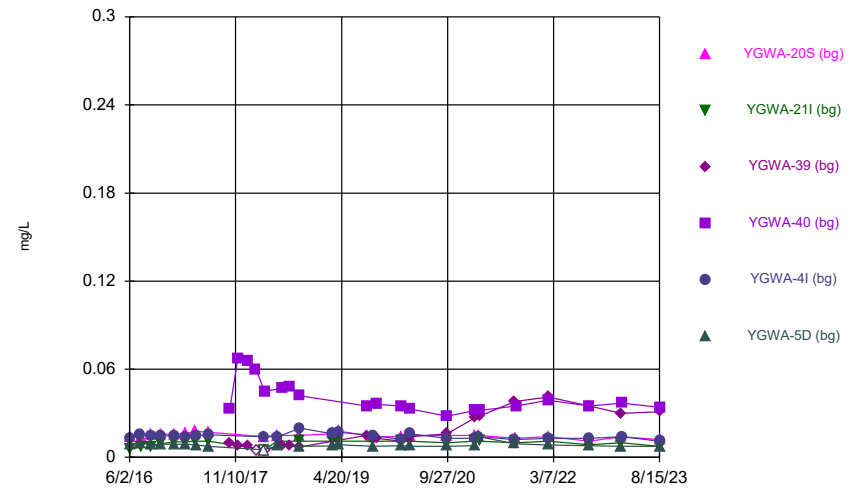
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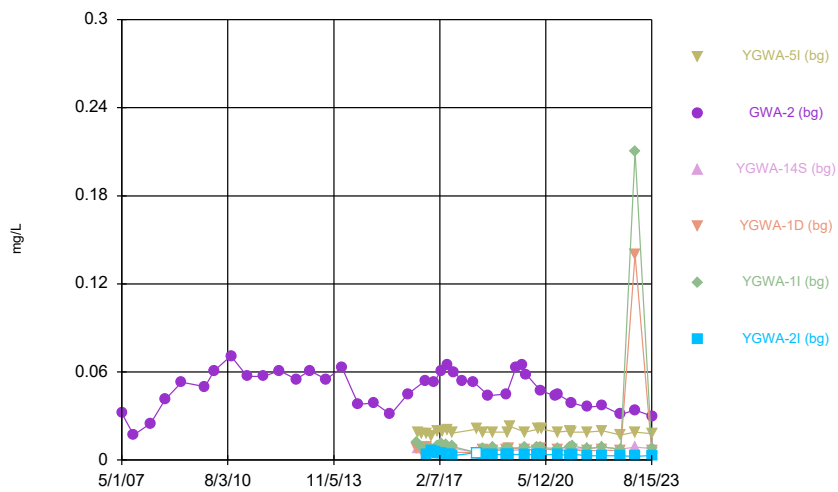
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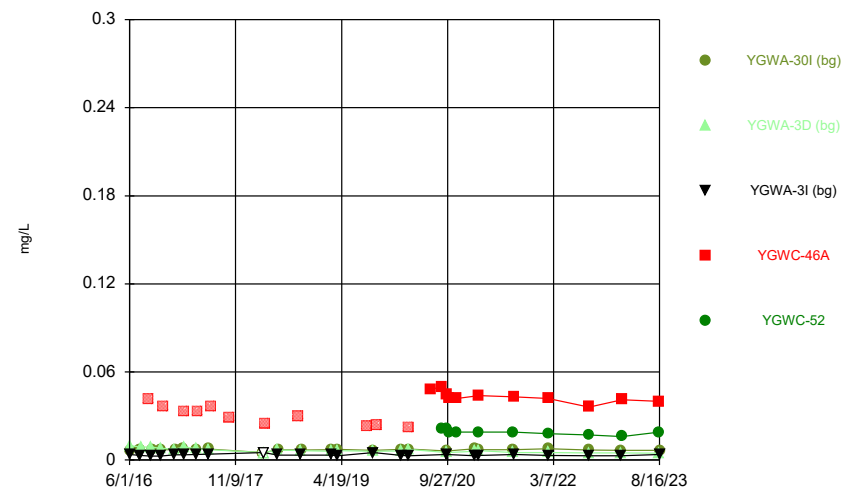
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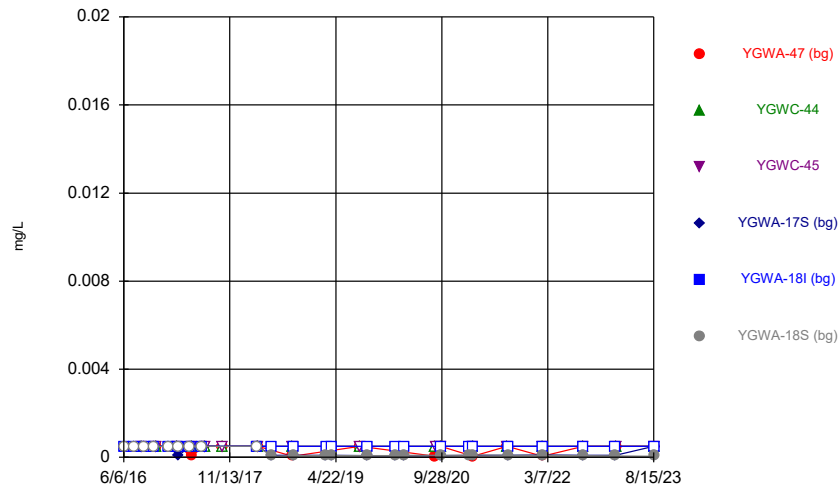
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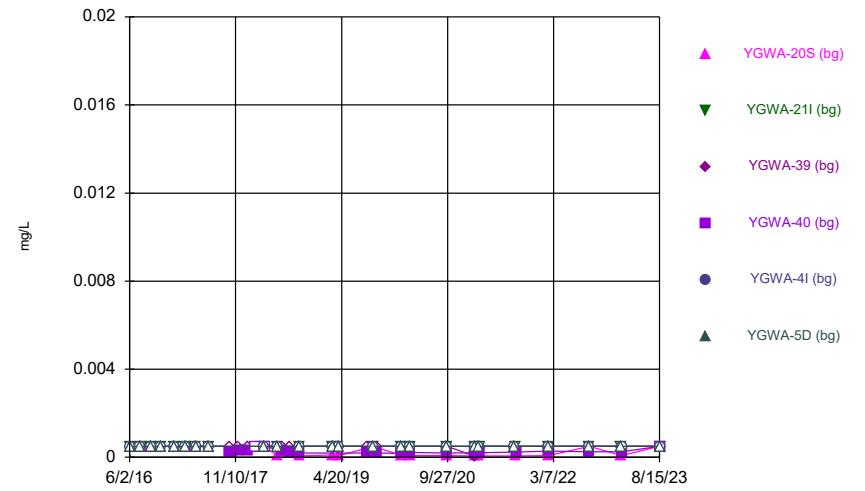
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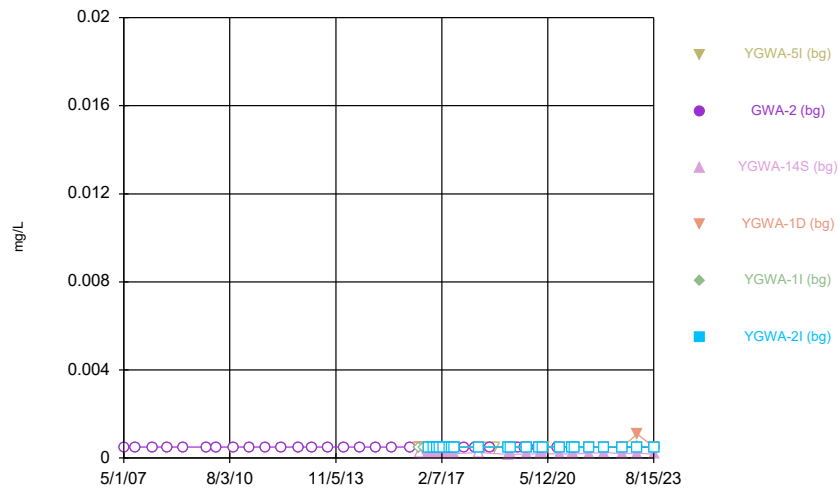
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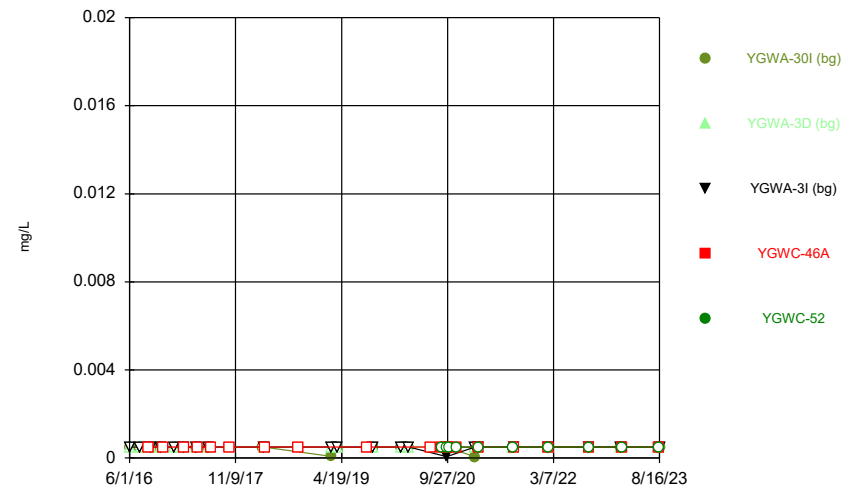
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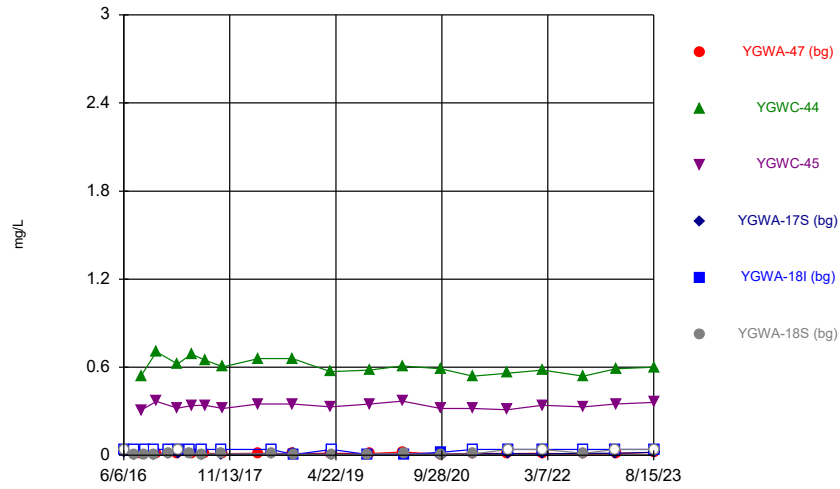
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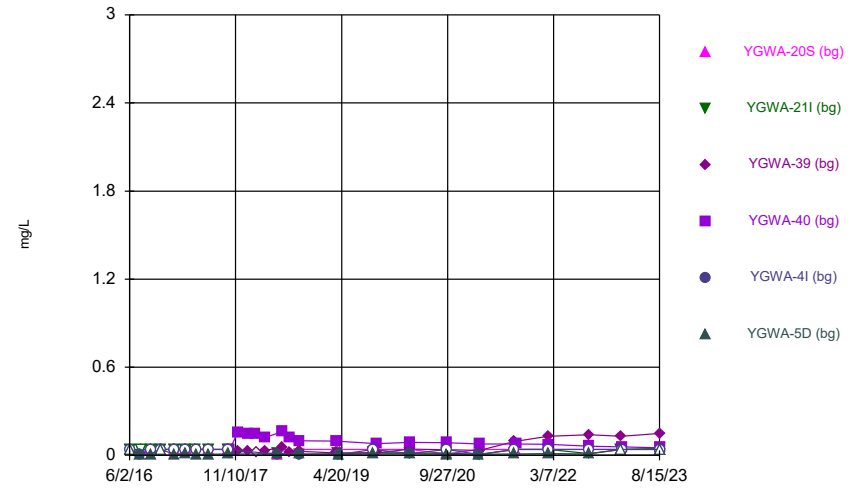
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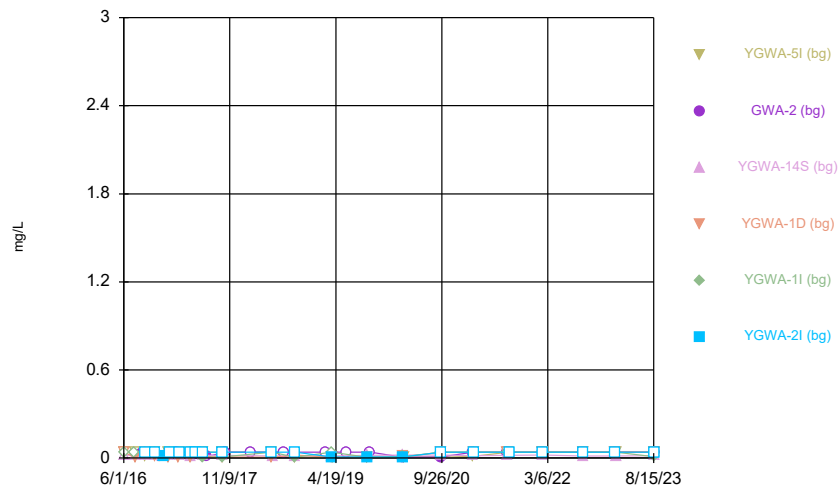
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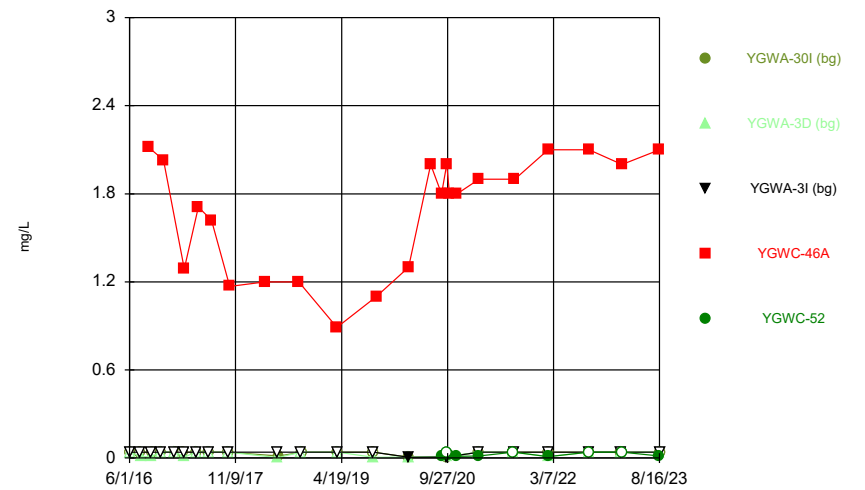
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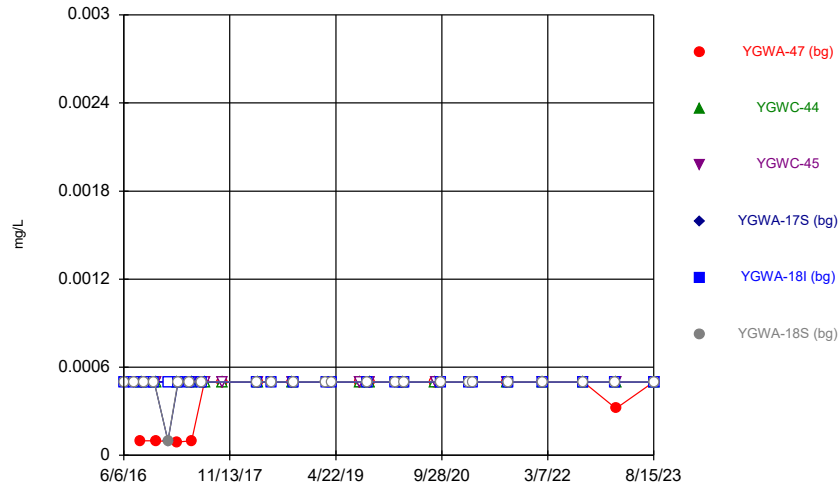
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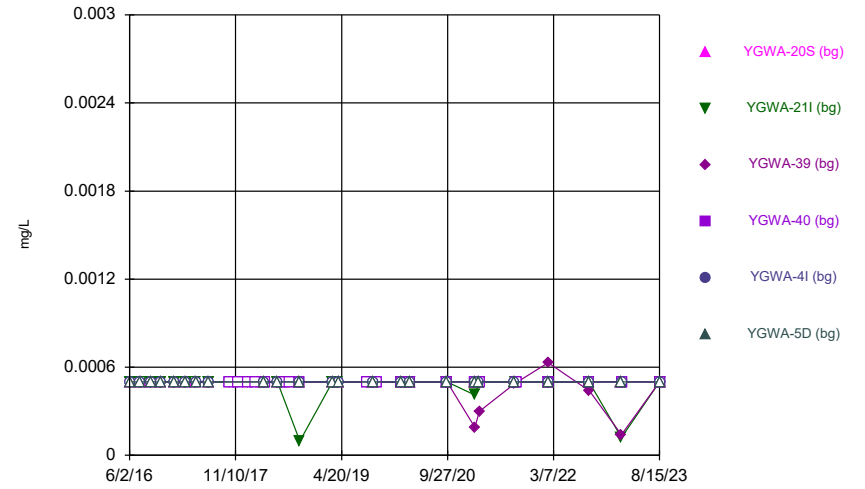


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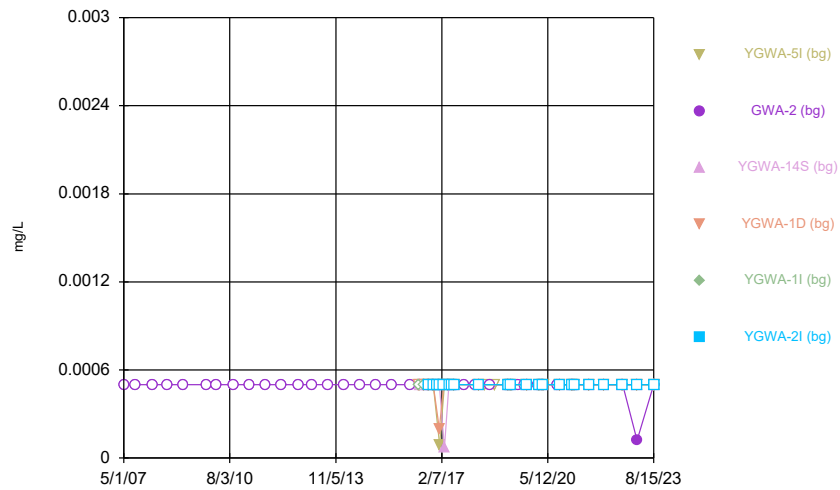
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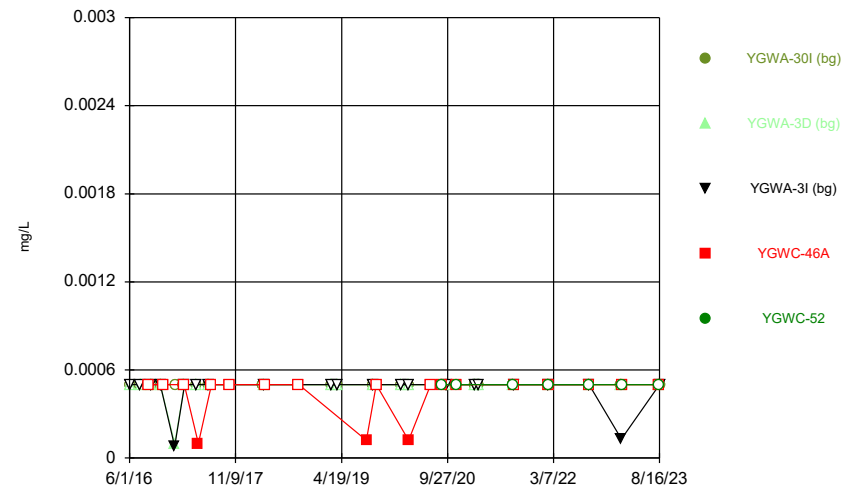
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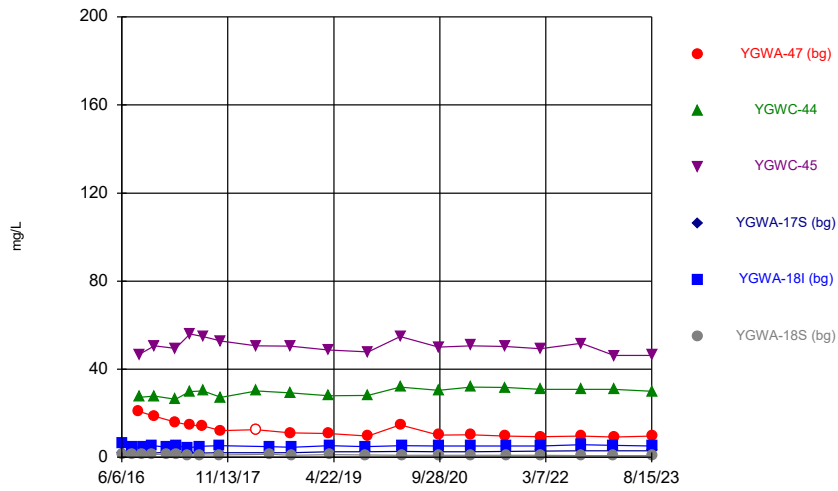
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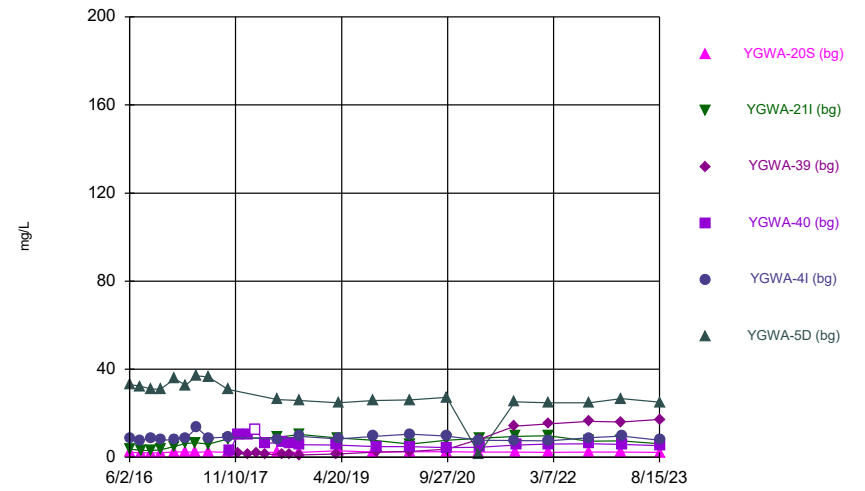
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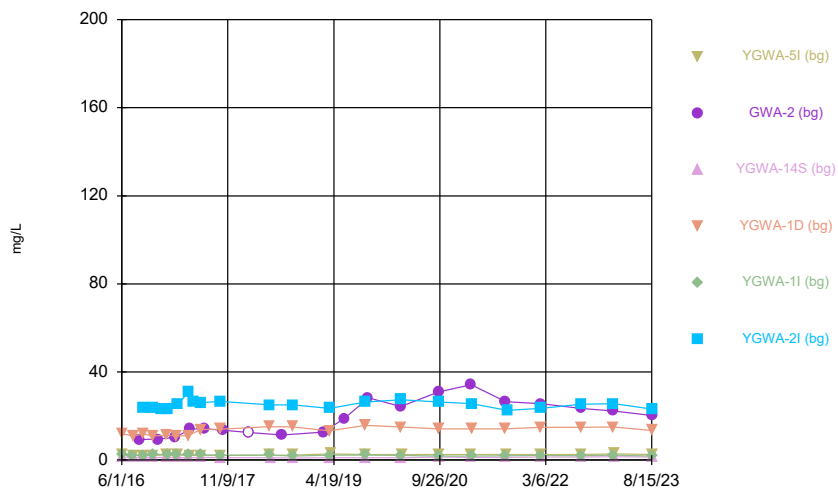
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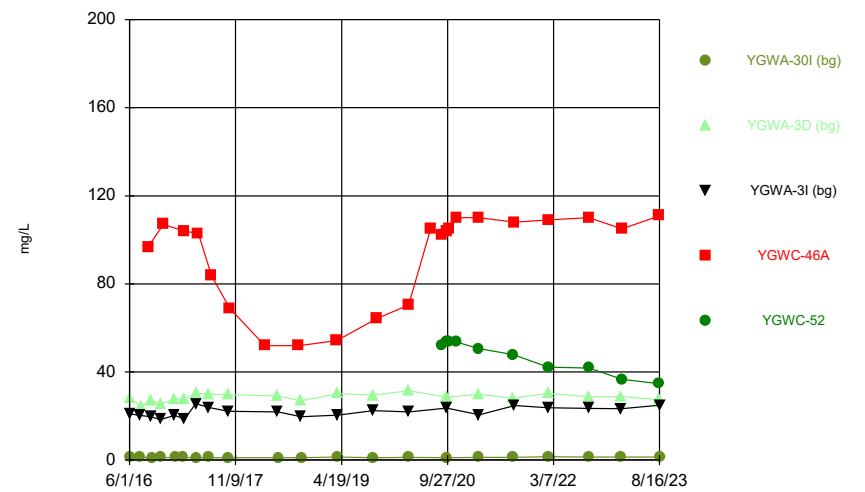
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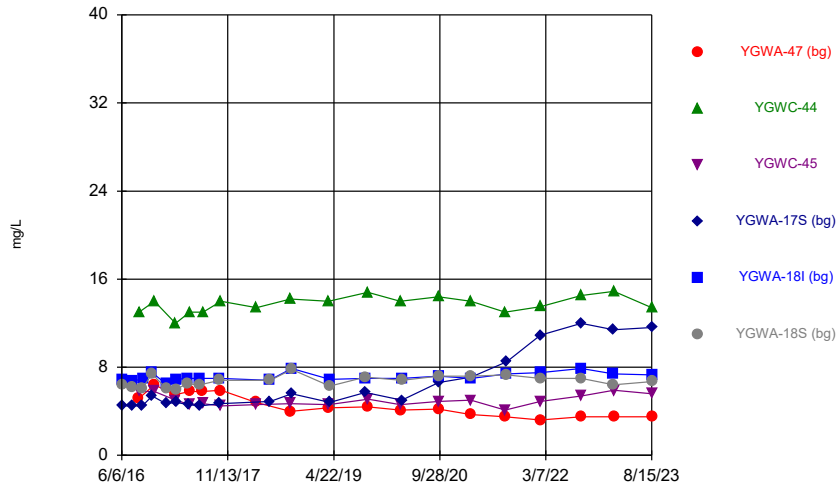
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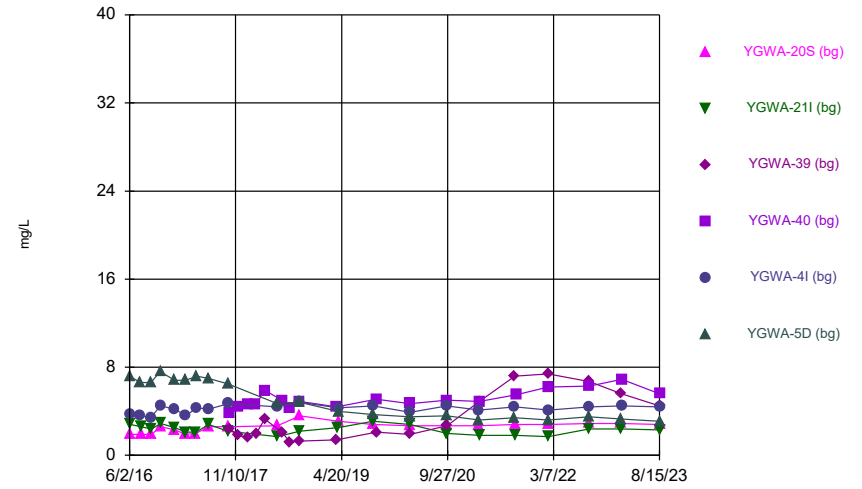
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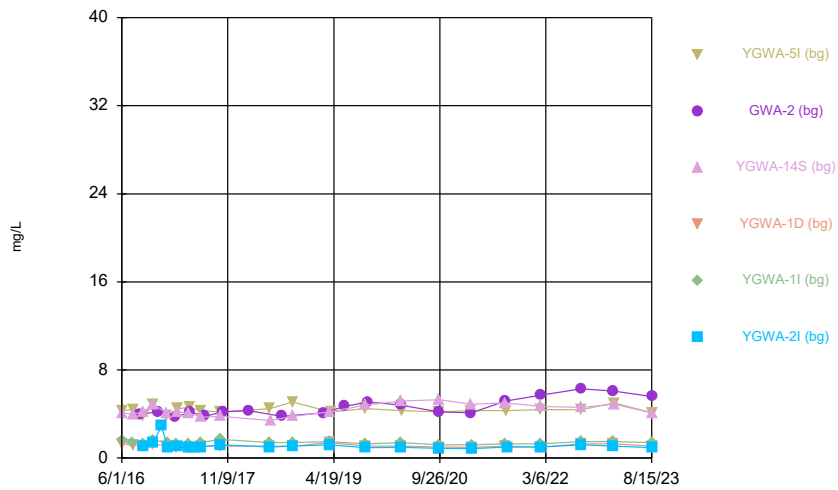
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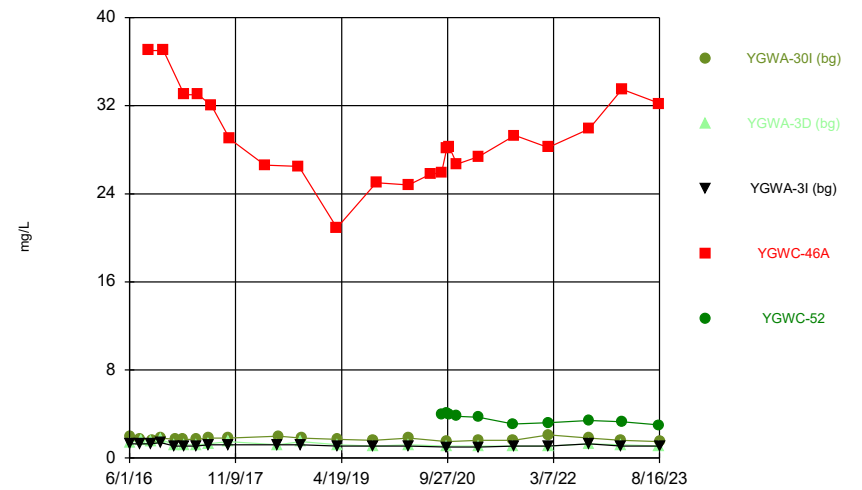
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### Time Series



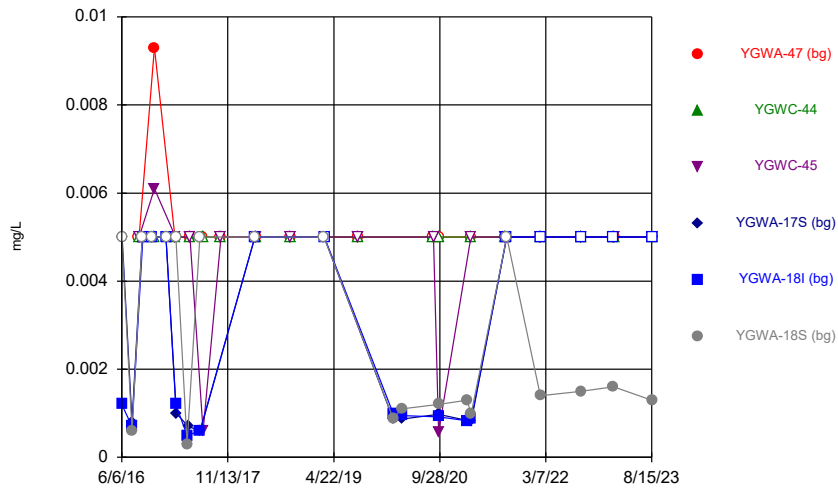
Constituent: Chloride, Total Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



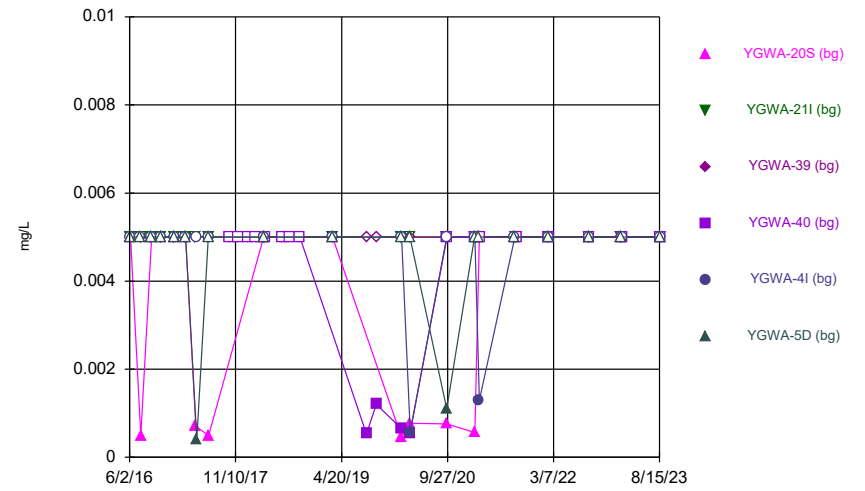
Constituent: Chloride, Total Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



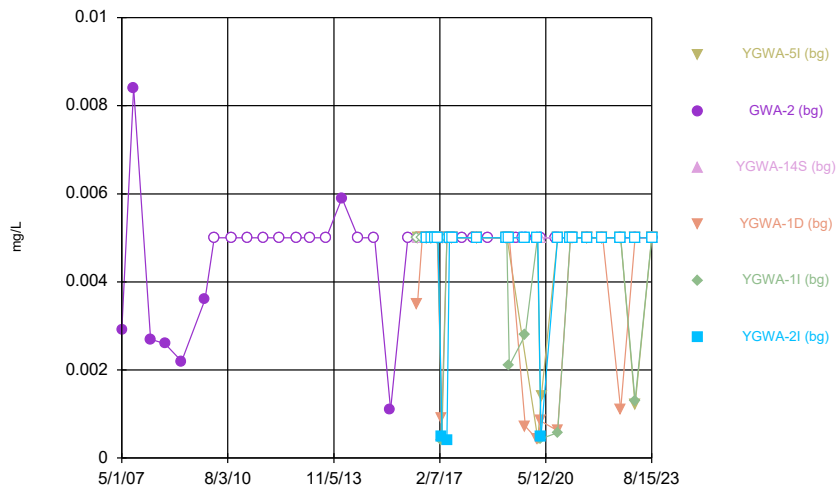
Constituent: Chromium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



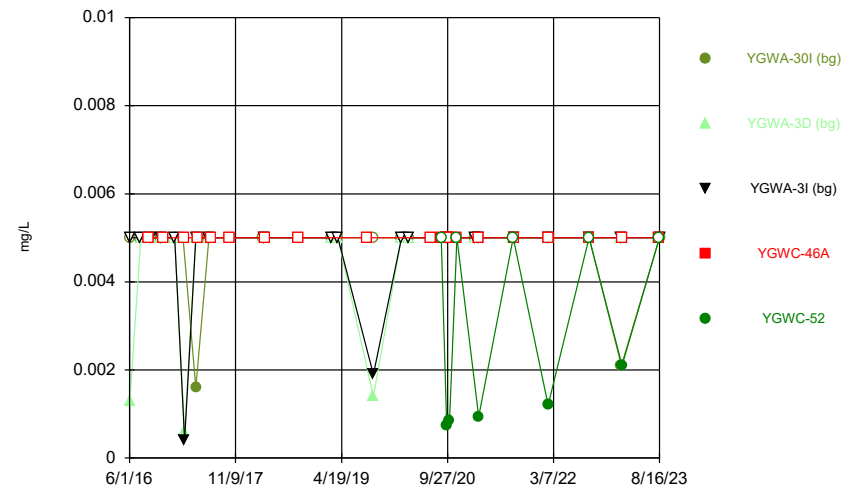
Constituent: Chromium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



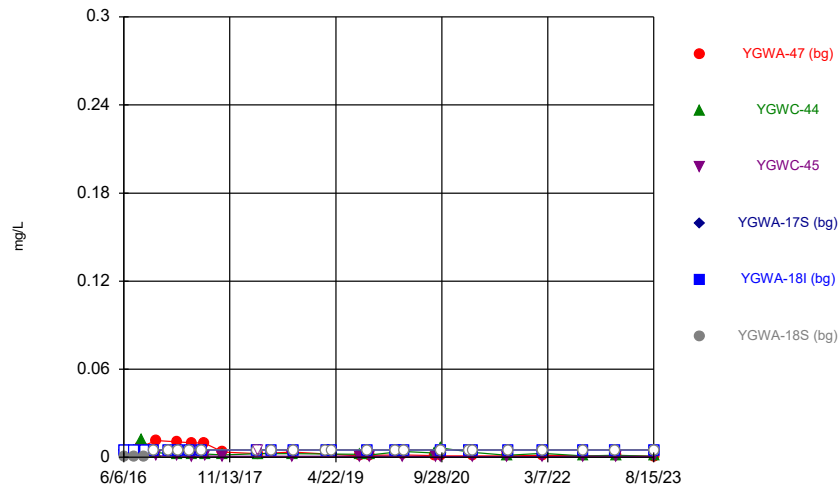
Constituent: Chromium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



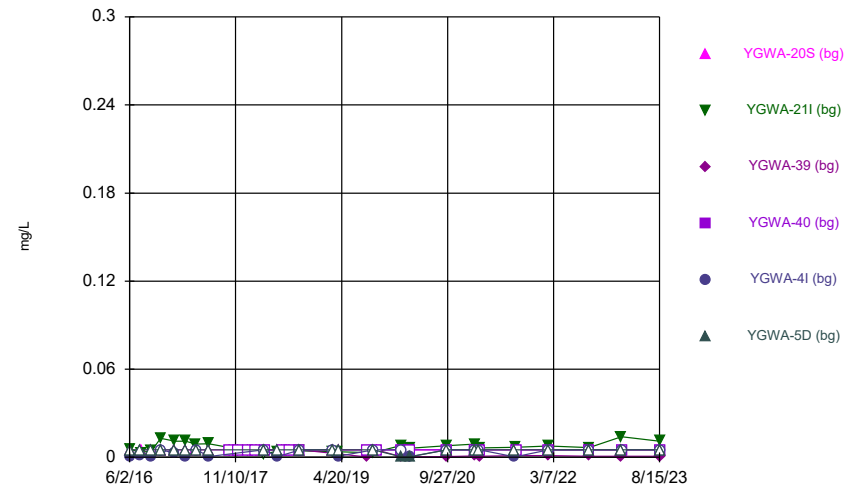
Constituent: Chromium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



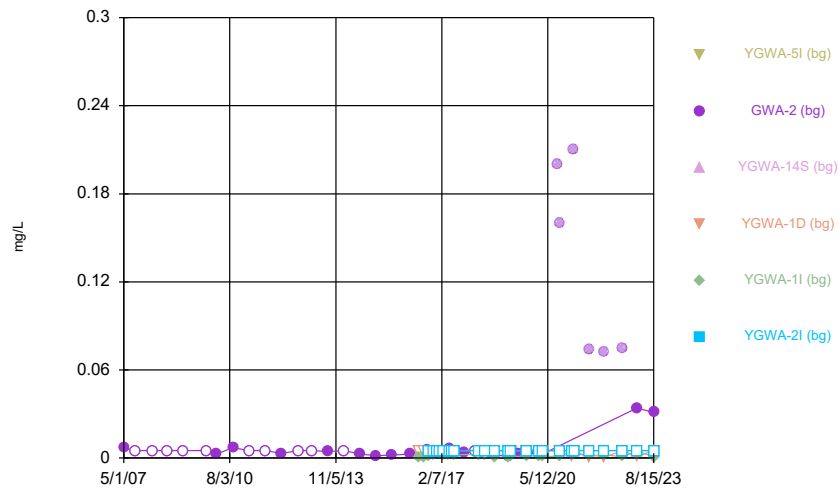
Constituent: Cobalt Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



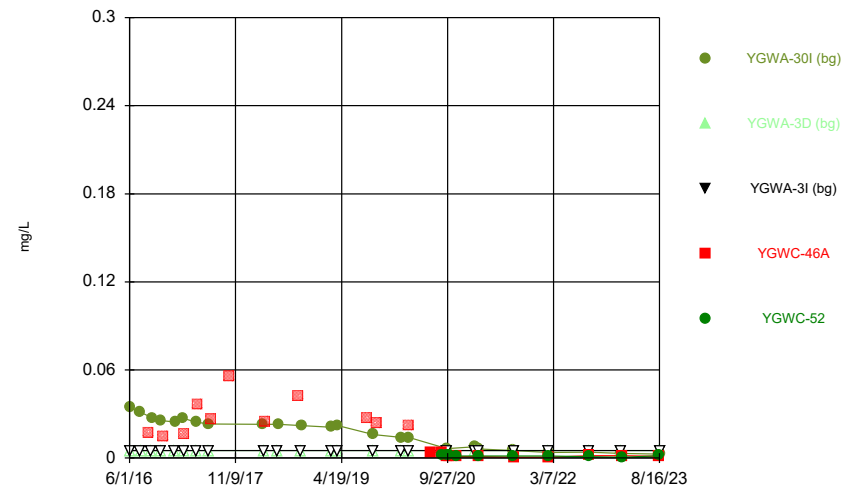
Constituent: Cobalt Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



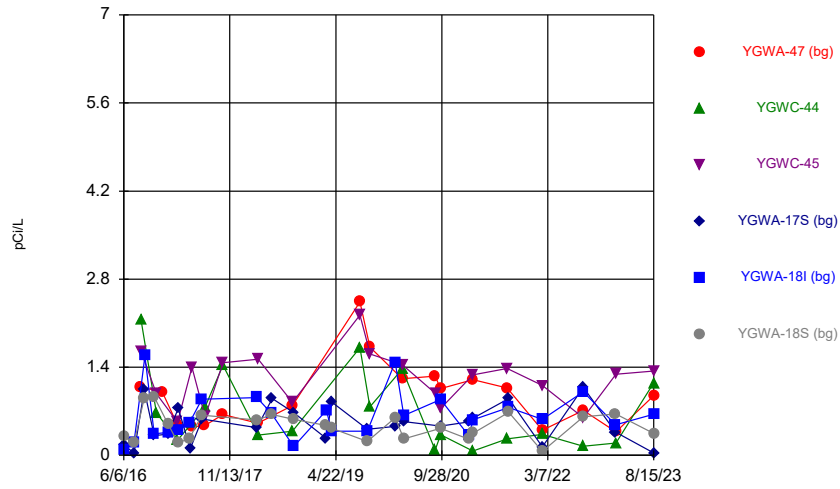
Constituent: Cobalt Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



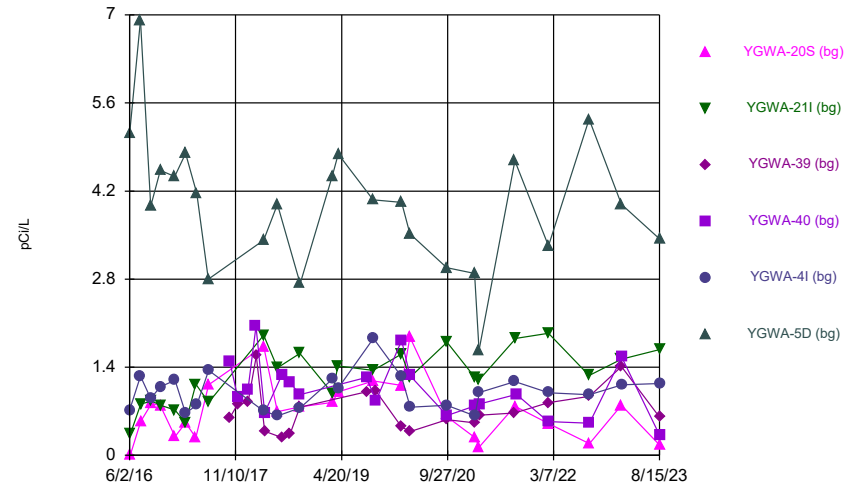
Constituent: Cobalt Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



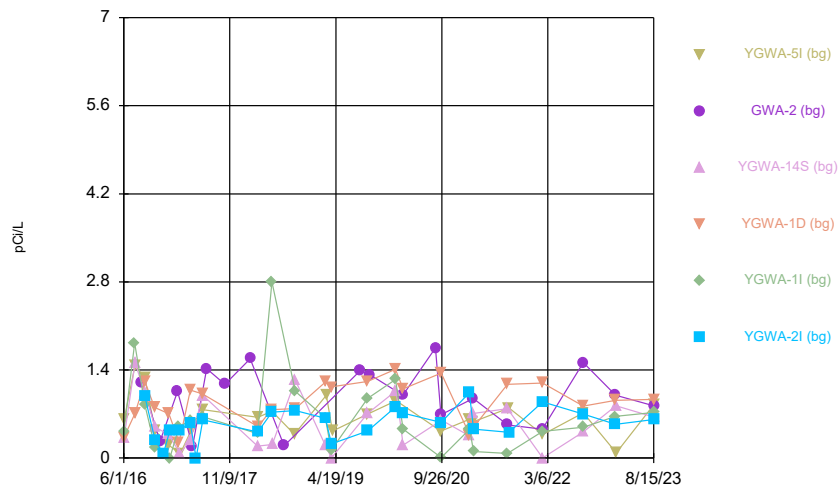
Constituent: Combined Radium 226 + 228 Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



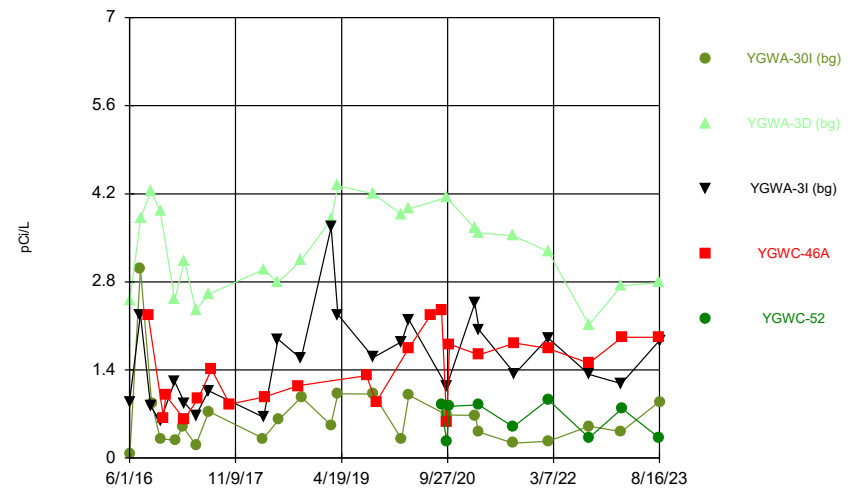
Constituent: Combined Radium 226 + 228 Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



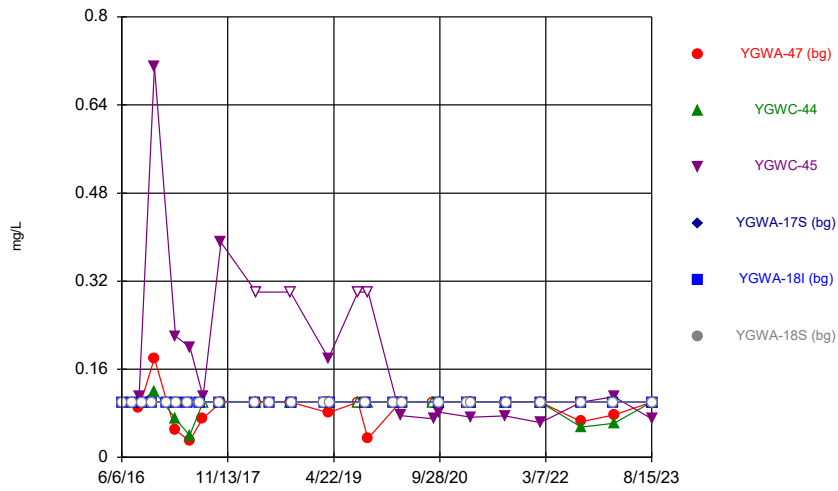
Constituent: Combined Radium 226 + 228 Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



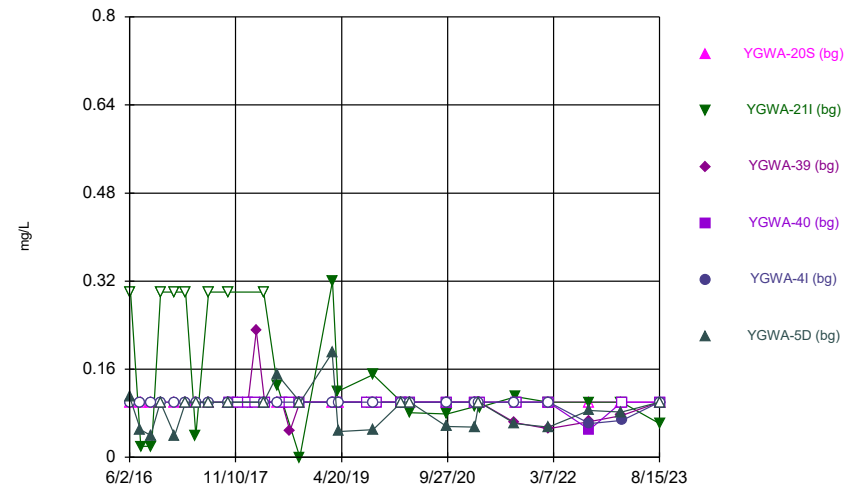
Constituent: Combined Radium 226 + 228 Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



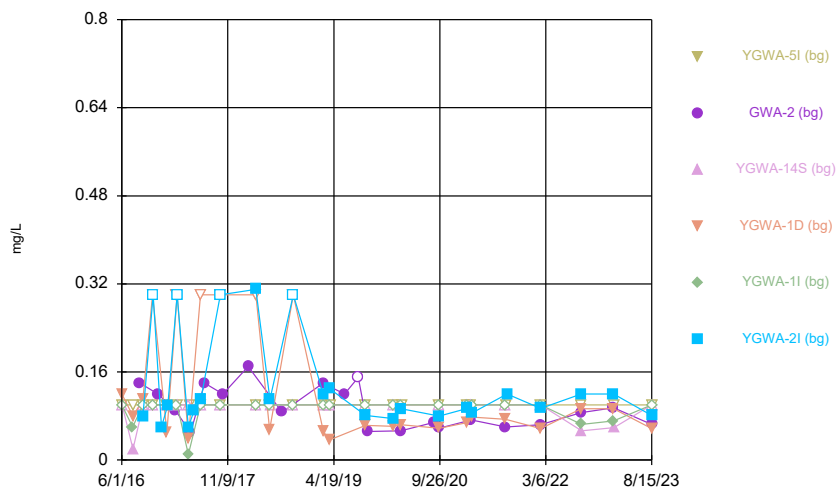
Constituent: Fluoride, total Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



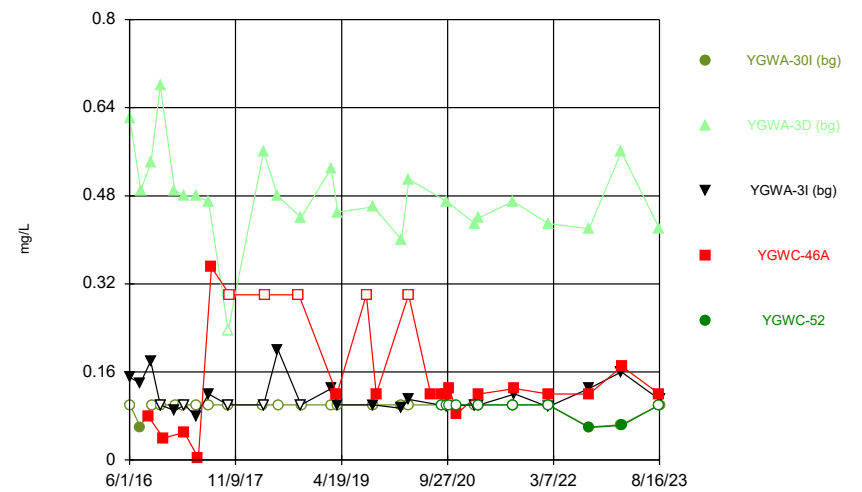
Constituent: Fluoride, total Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



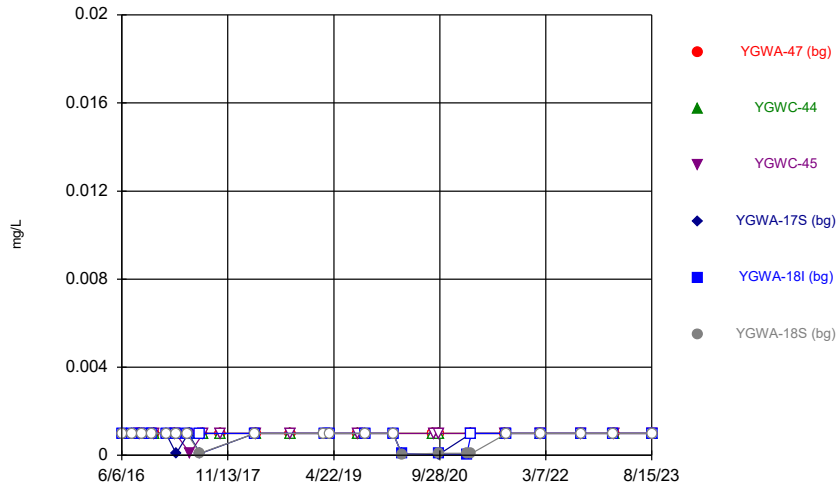
Constituent: Fluoride, total Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



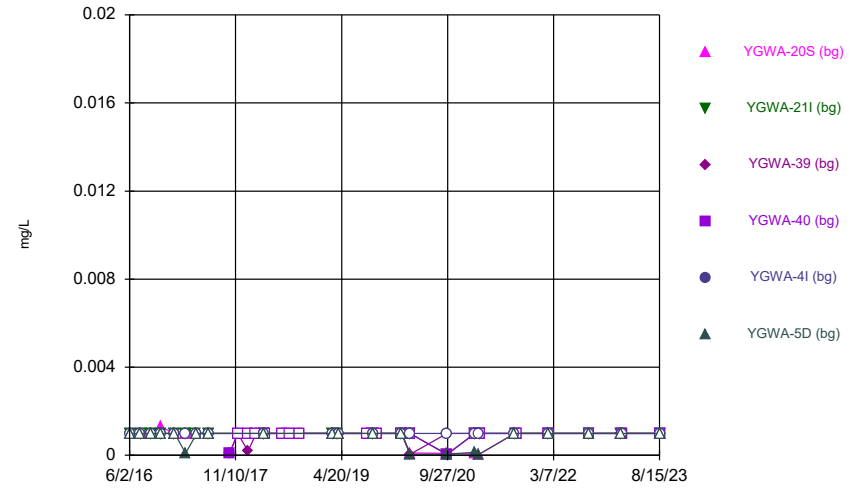
Constituent: Fluoride, total Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



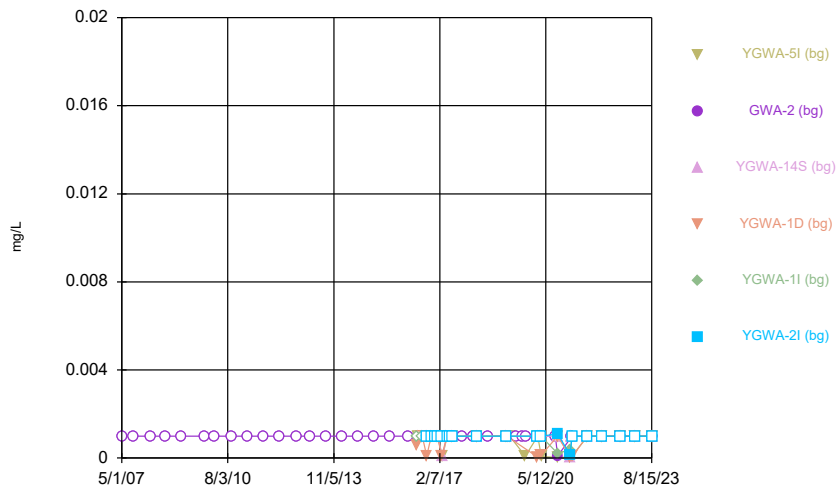
Constituent: Lead Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



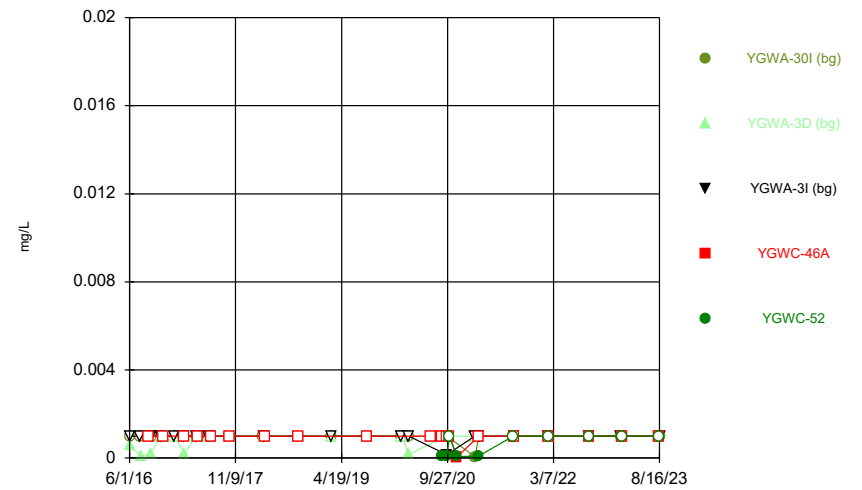
Constituent: Lead Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



Constituent: Lead Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

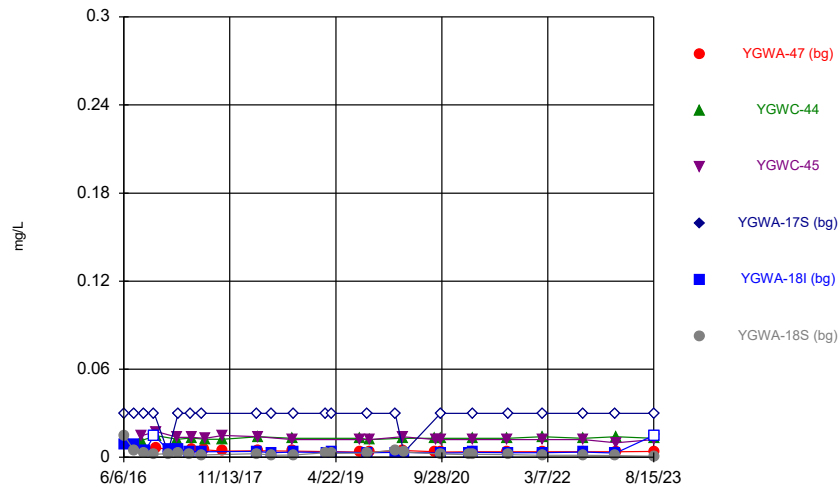
### Time Series



Constituent: Lead Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

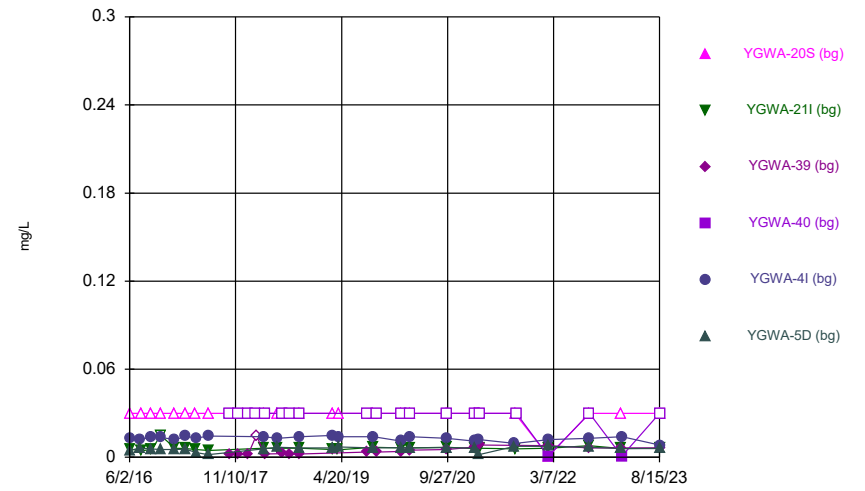


### Time Series



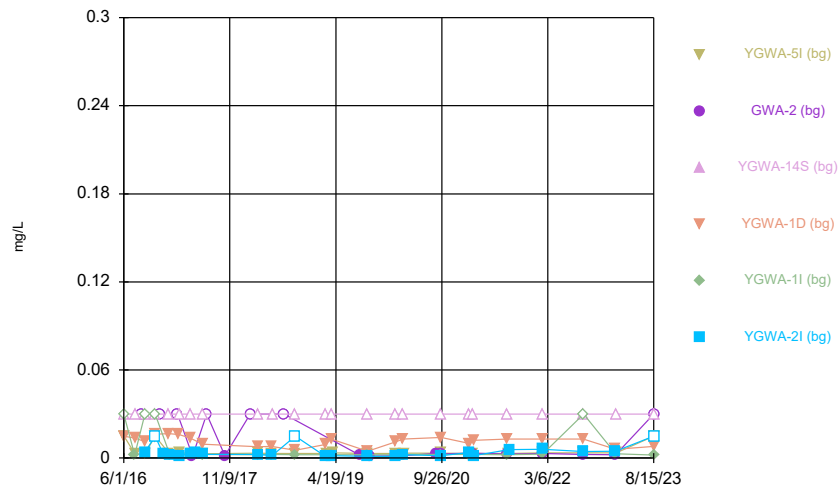
Constituent: Lithium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



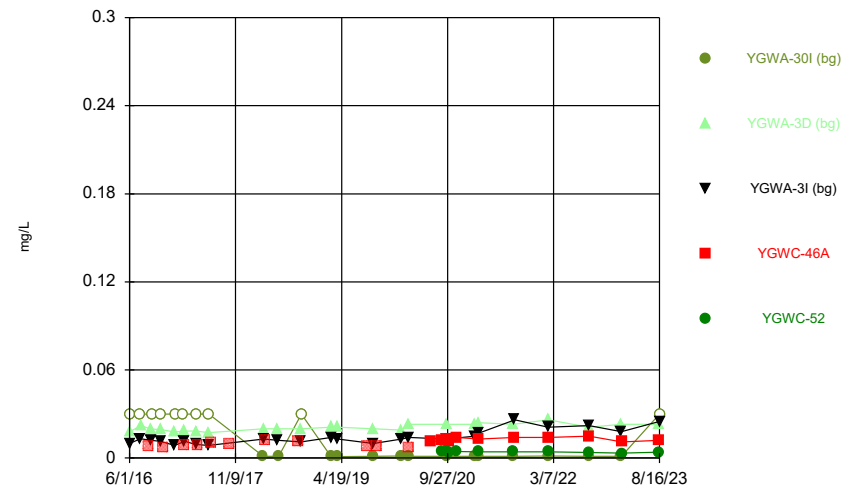
Constituent: Lithium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



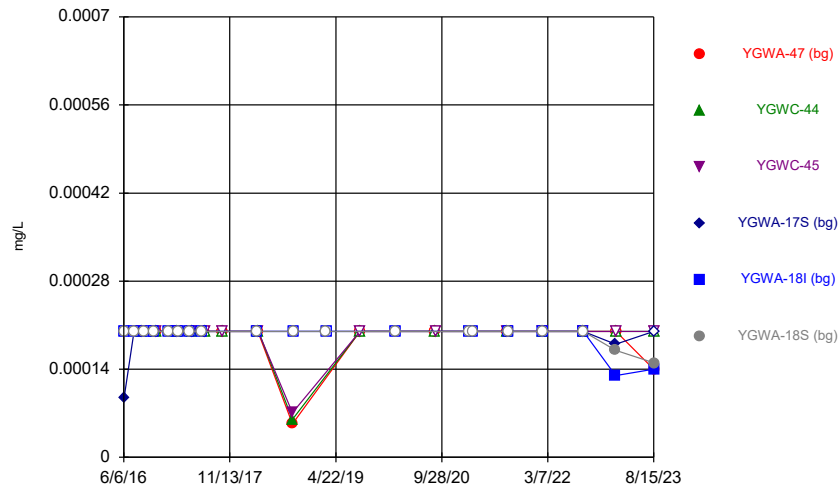
Constituent: Lithium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



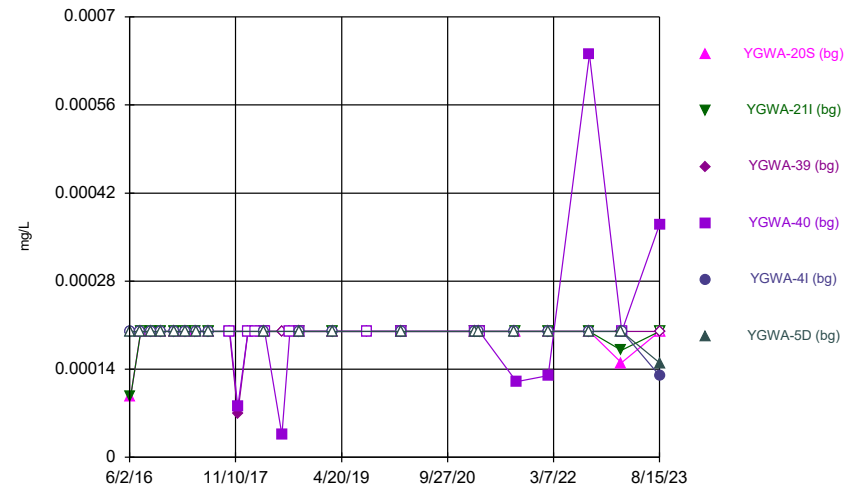
Constituent: Lithium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



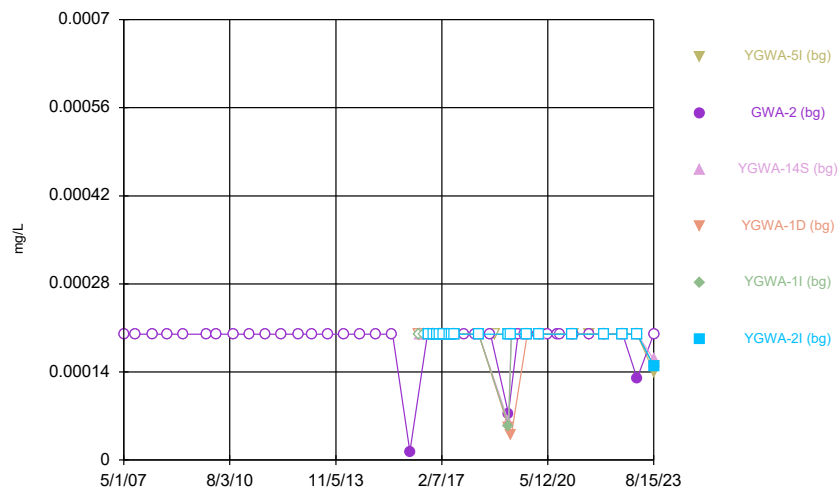
Constituent: Mercury Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



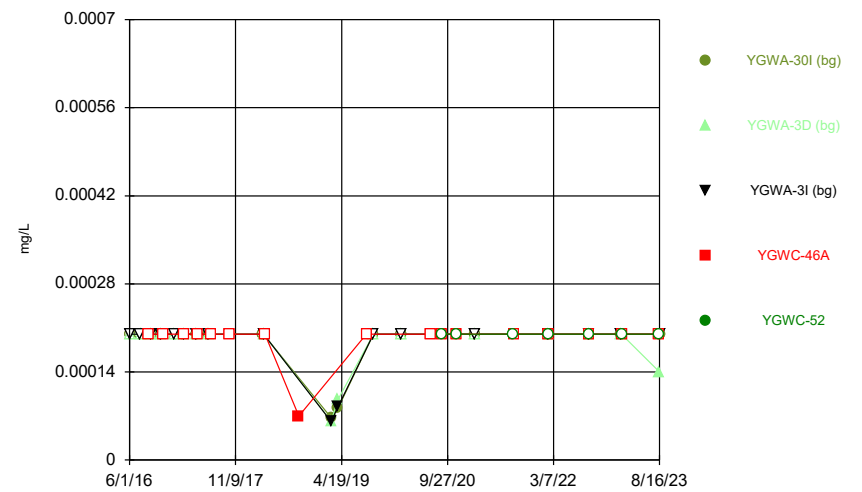
Constituent: Mercury Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



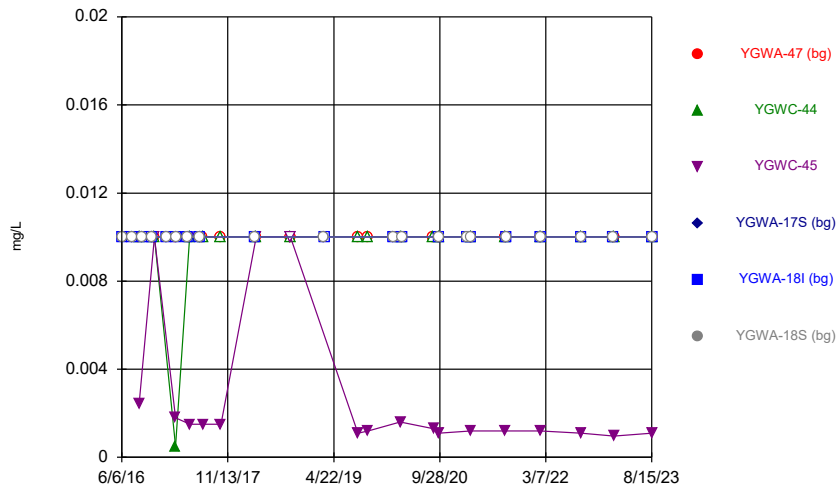
Constituent: Mercury Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



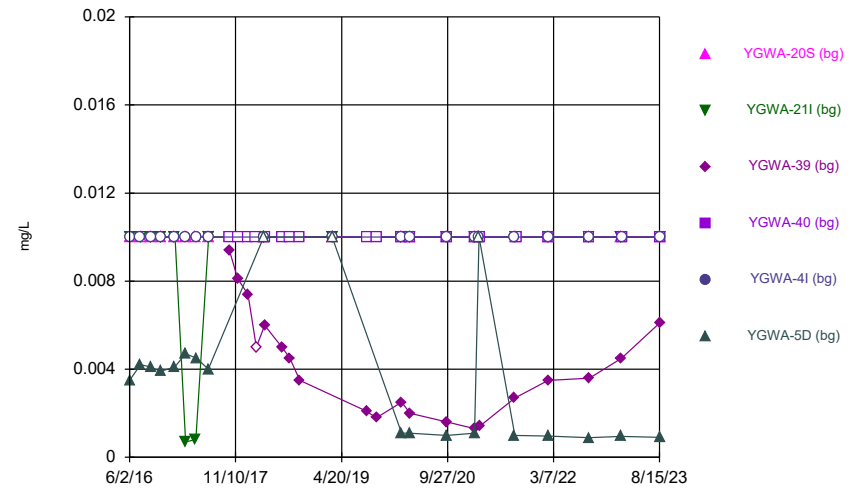
Constituent: Mercury Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



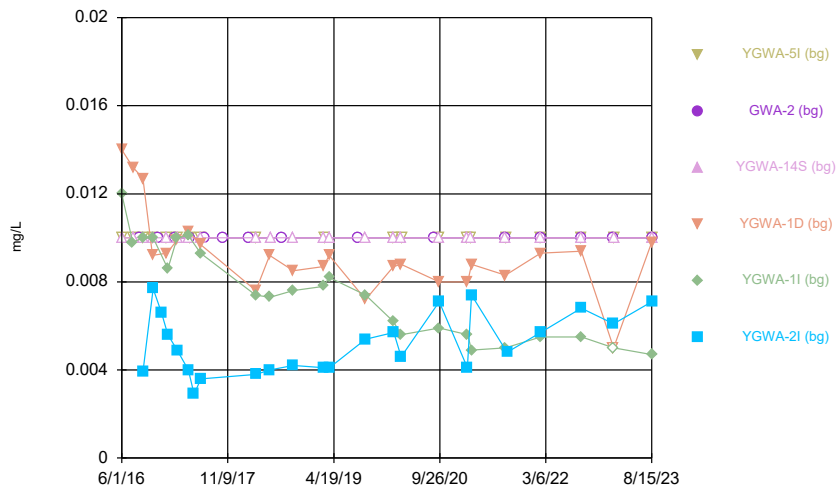
Constituent: Molybdenum Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



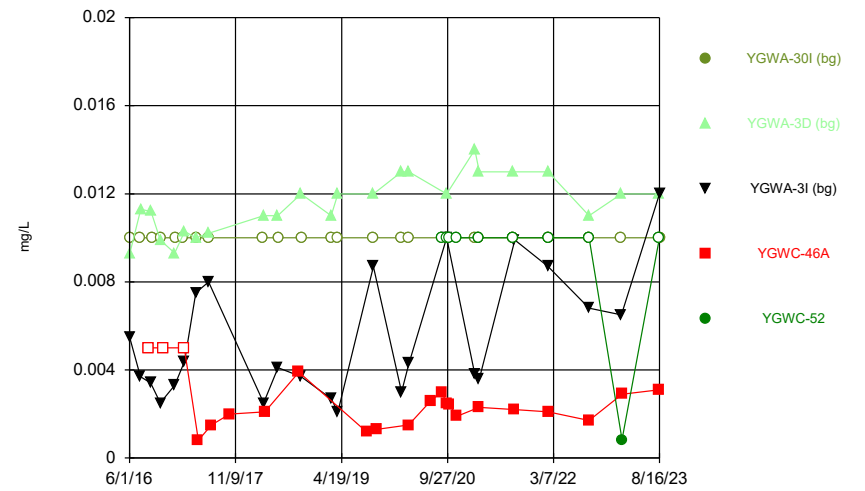
Constituent: Molybdenum Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



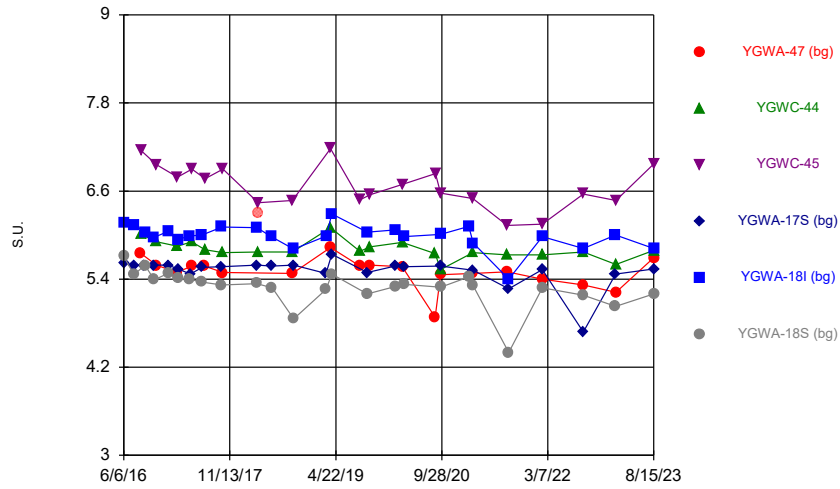
Constituent: Molybdenum Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series

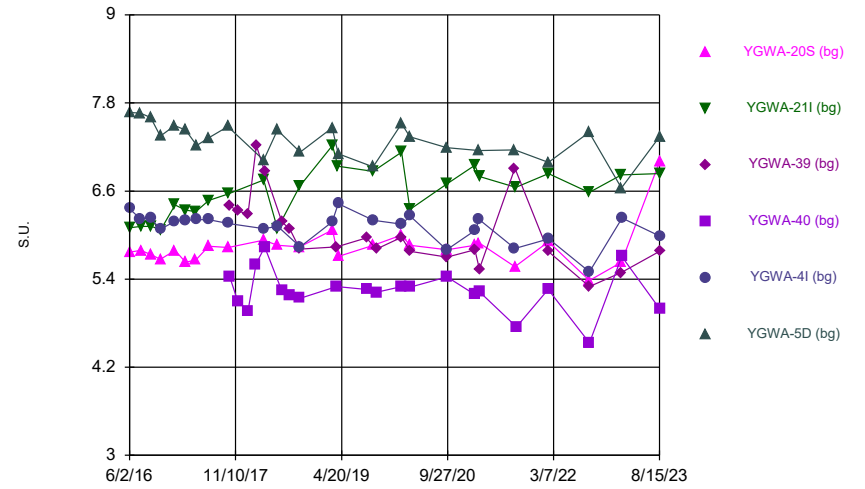


Constituent: Molybdenum Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

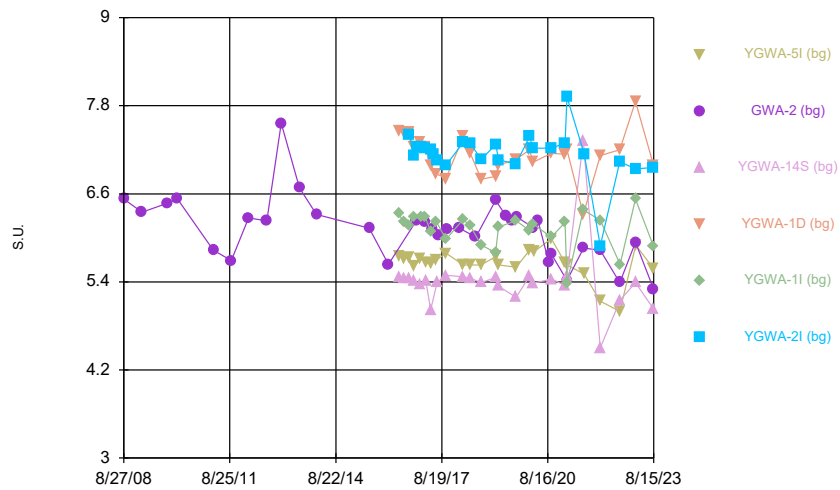
### Time Series



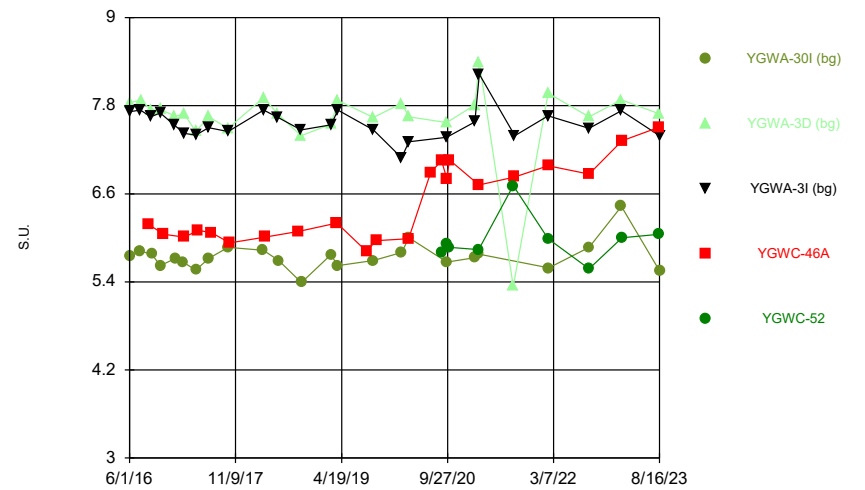
### Time Series



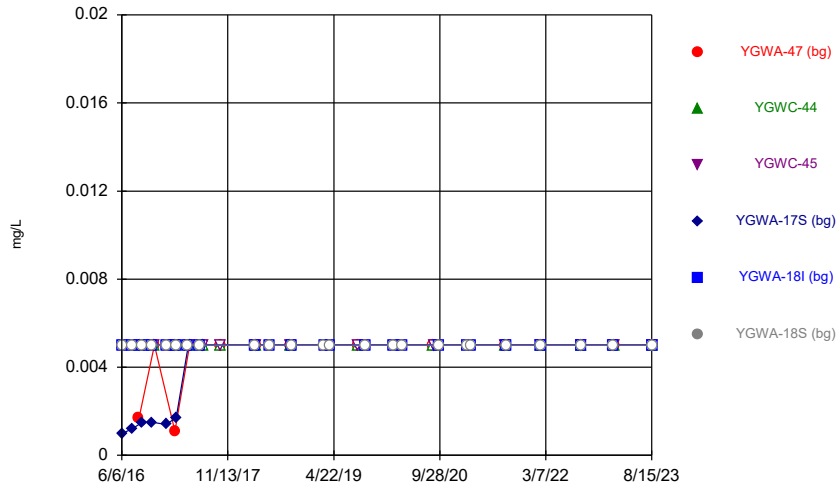
### Time Series



### Time Series

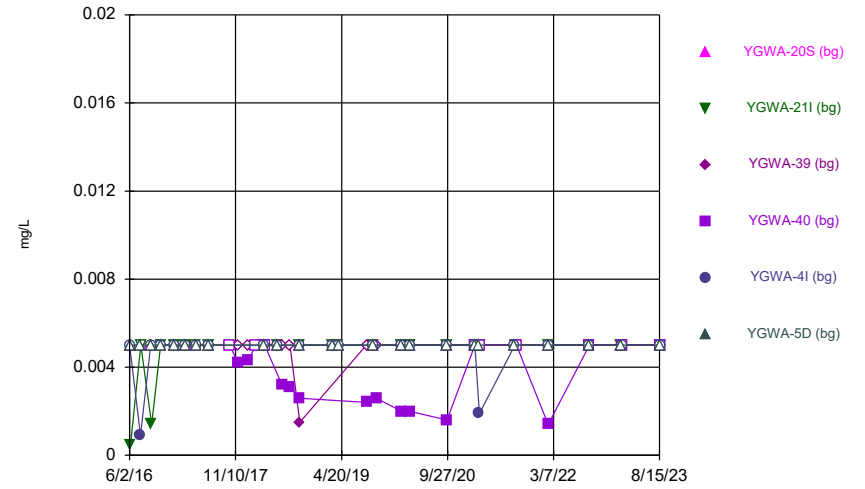


### Time Series



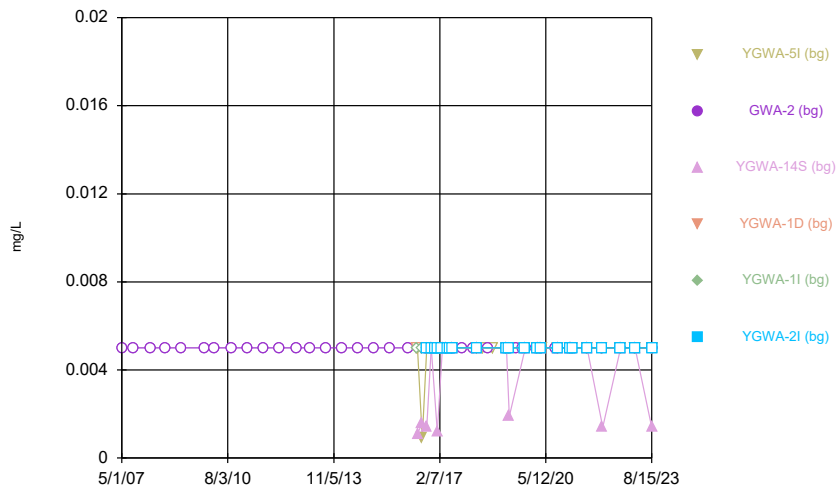
Constituent: Selenium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



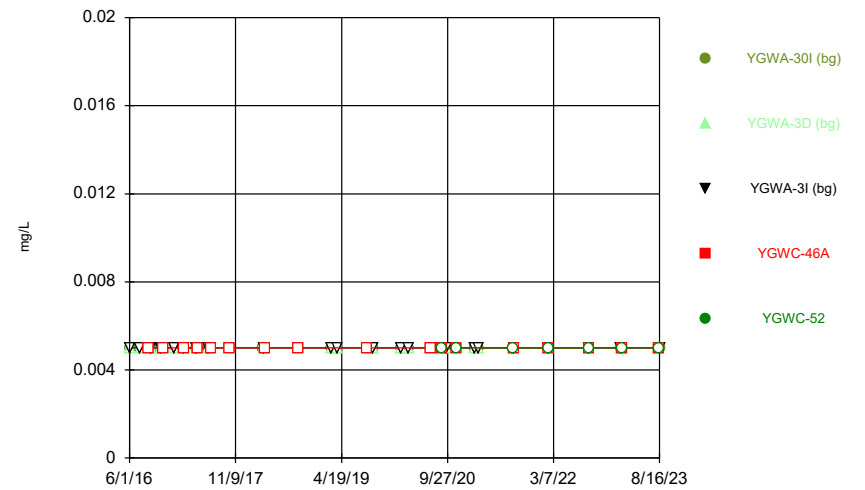
Constituent: Selenium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



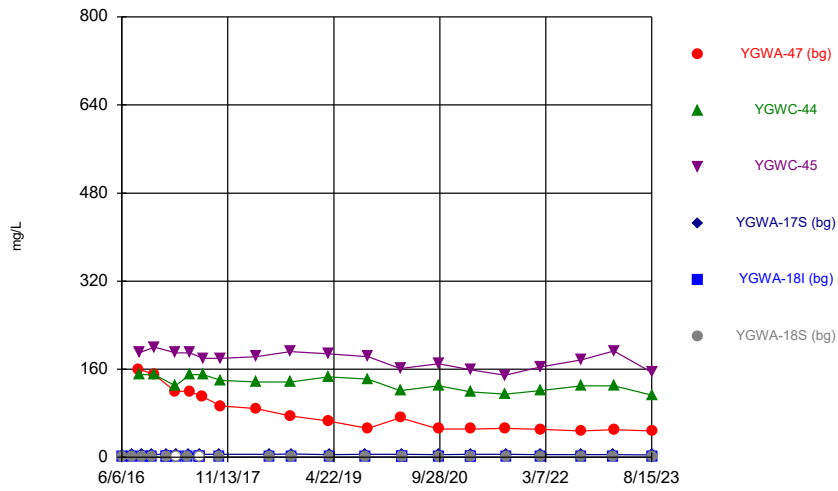
Constituent: Selenium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



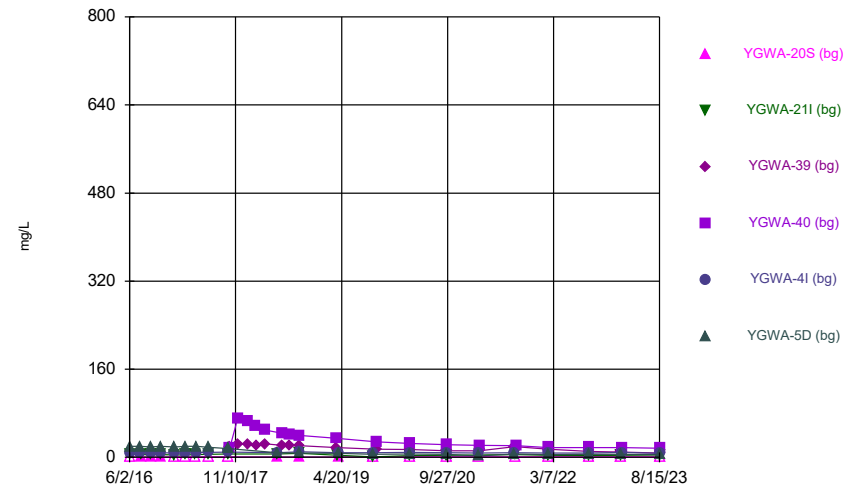
Constituent: Selenium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



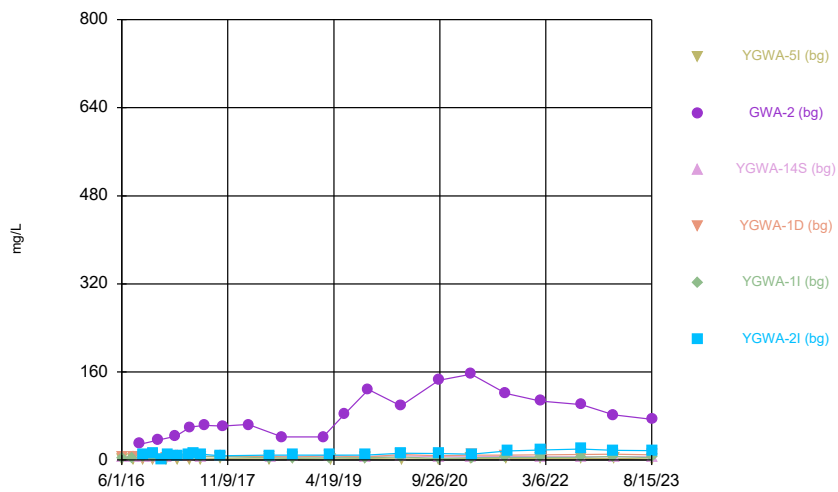
Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



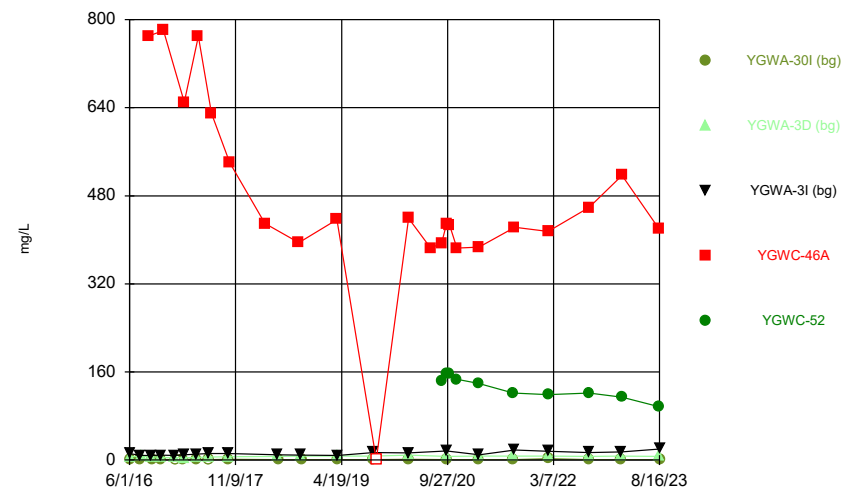
Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



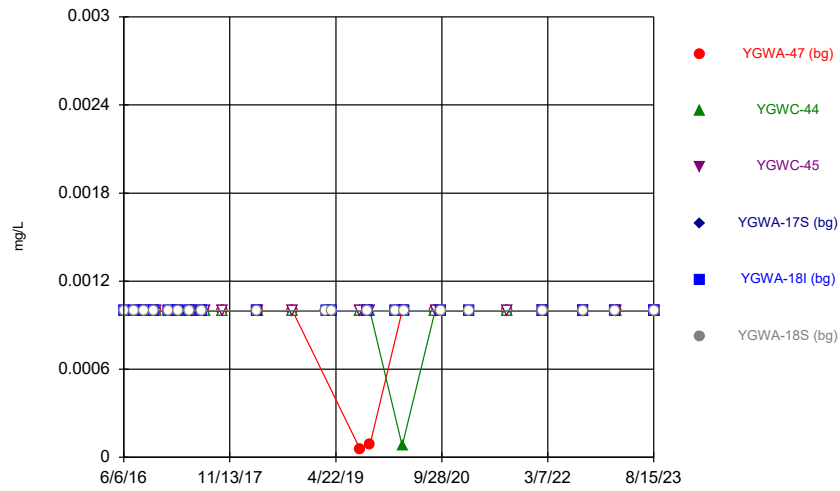
Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



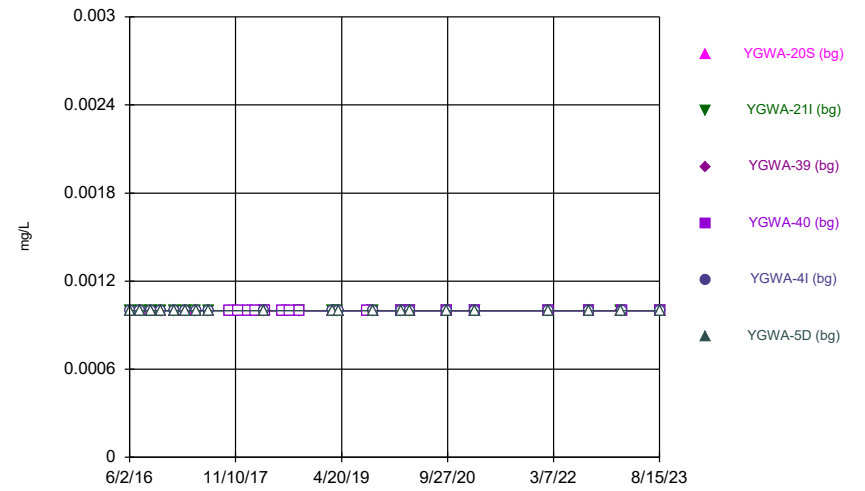
Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



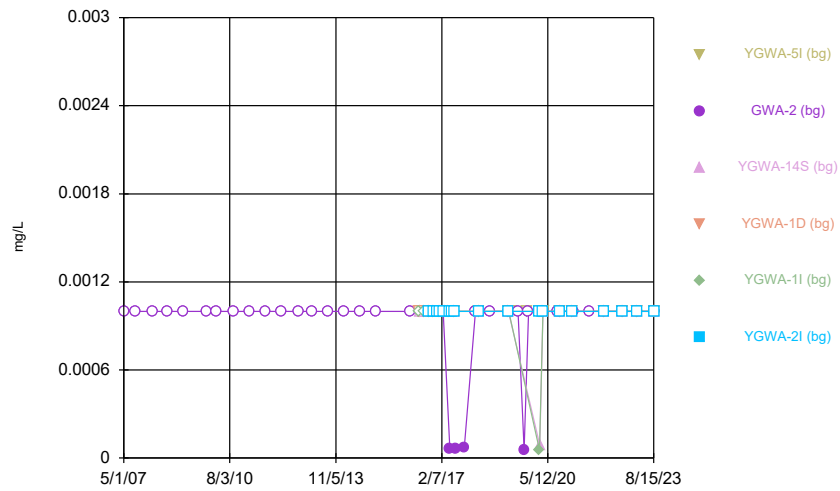
Constituent: Thallium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



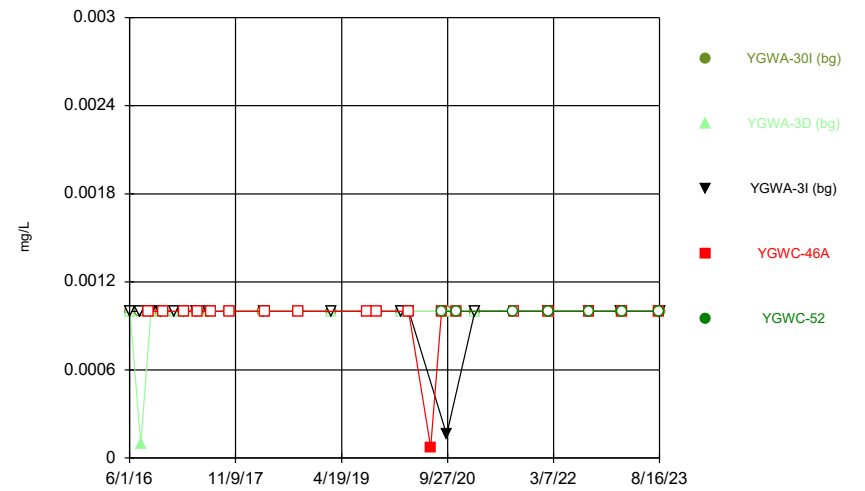
Constituent: Thallium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



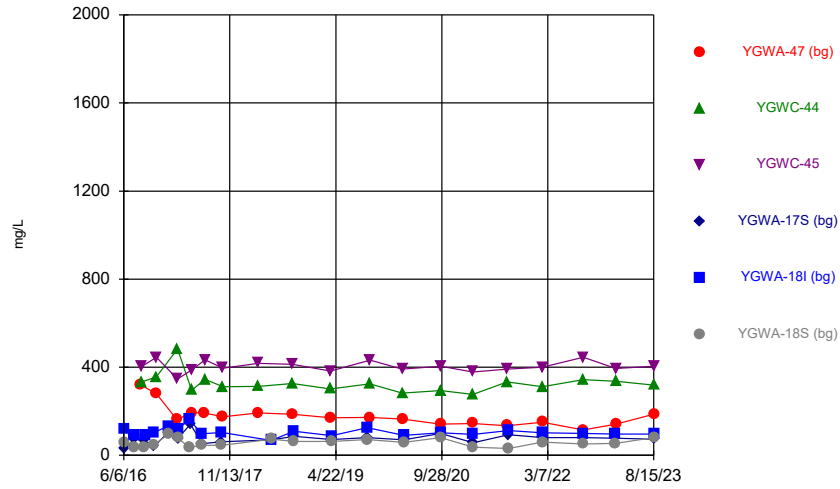
Constituent: Thallium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



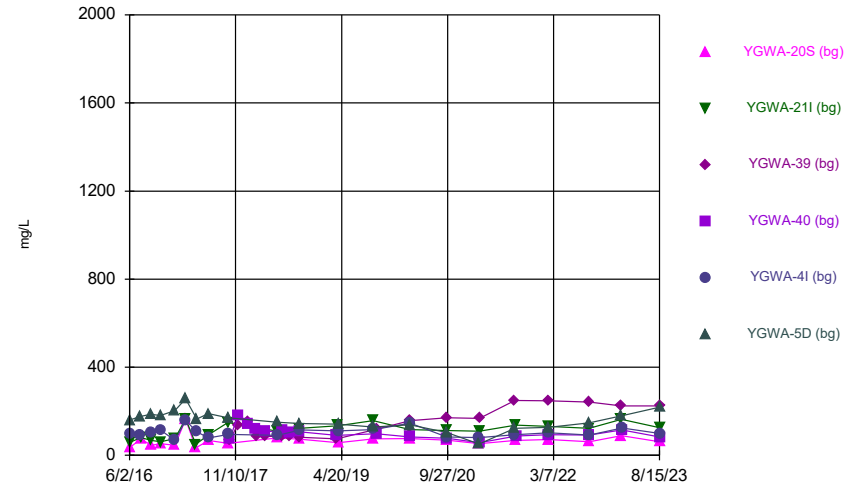
Constituent: Thallium Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



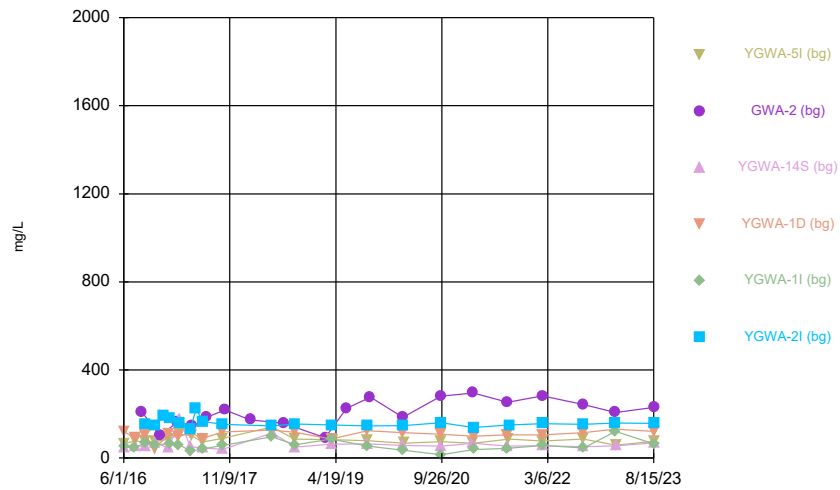
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



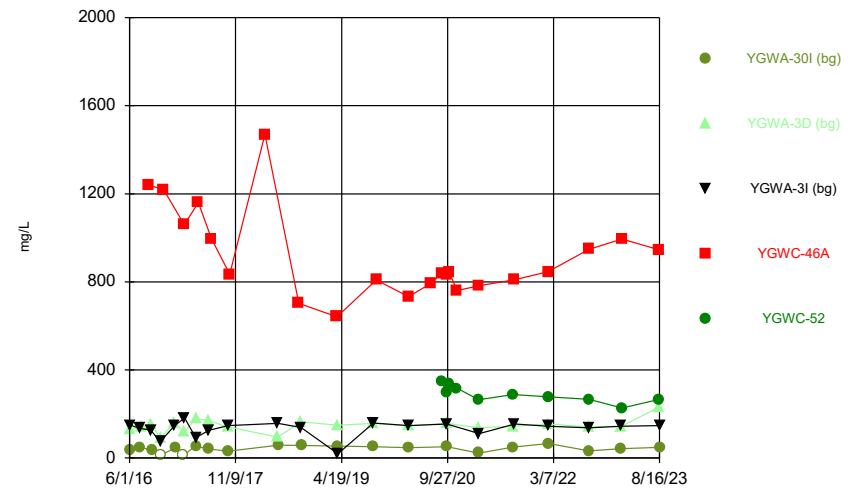
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:02 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:03 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1



# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.003	<0.003
6/7/2016				<0.003		
7/27/2016				<0.003	0.0005 (J)	<0.003
8/30/2016	0.0028 (J)					
8/31/2016		<0.003	<0.003			
9/16/2016				<0.003		<0.003
9/19/2016					<0.003	
11/3/2016				<0.003	<0.003	<0.003
11/14/2016	<0.003		<0.003			
11/15/2016		<0.003				
1/11/2017				<0.003	<0.003	<0.003
2/24/2017	<0.003					
2/27/2017			<0.003			
2/28/2017		<0.003				
3/1/2017					<0.003	<0.003
3/2/2017				<0.003		
4/26/2017					<0.003	<0.003
5/2/2017				<0.003		
5/8/2017	0.0004 (J)	<0.003				
5/9/2017			<0.003			
6/28/2017					<0.003	<0.003
6/29/2017				<0.003		
7/11/2017	0.0006 (J)					
7/13/2017		<0.003	<0.003			
10/10/2017	<0.003	<0.003	<0.003			
3/28/2018				<0.003	<0.003	<0.003
4/2/2018	<0.003					
4/3/2018			<0.003			
4/4/2018		<0.003				
9/19/2018	<0.003	<0.003	<0.003			
3/5/2019				<0.003		<0.003
3/6/2019					<0.003	
4/2/2019				<0.003		
4/3/2019					<0.003	<0.003
8/20/2019	<0.003	<0.003	<0.003			
9/25/2019				<0.003		
9/26/2019					0.00056 (J)	<0.003
2/11/2020				<0.003	<0.003	<0.003
3/24/2020				<0.003	<0.003	<0.003
8/27/2020	0.00048 (J)	<0.003				
8/28/2020			0.0017 (J)			
9/22/2020	<0.003	<0.003				
9/23/2020			<0.003	<0.003	<0.003	<0.003
2/9/2021					<0.003	<0.003
3/1/2021	0.00048 (J)	<0.003	<0.003			
3/3/2021				<0.003	<0.003	0.00067 (J)
8/19/2021	<0.003	<0.003	<0.003			
8/26/2021						<0.003
8/27/2021				<0.003	<0.003	
2/8/2022	<0.003					
2/9/2022		<0.003	<0.003	<0.003	<0.003	<0.003
8/30/2022				<0.003	<0.003	<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/31/2022	<0.003	<0.003	<0.003			
2/7/2023				0.0013 (J)	<0.003	<0.003
2/8/2023	<0.003	<0.003				
2/9/2023			<0.003			
8/15/2023	<0.003	0.0023 (J)	<0.003	<0.003	<0.003	<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.003	<0.003
6/7/2016	<0.003	<0.003				
7/26/2016					0.0003 (J)	<0.003
7/27/2016	<0.003					
7/28/2016		<0.003				
9/14/2016					<0.003	<0.003
9/19/2016	<0.003	0.001 (J)				
11/2/2016	<0.003				<0.003	<0.003
11/3/2016		<0.003				
1/12/2017						<0.003
1/13/2017	<0.003	<0.003			<0.003	
3/6/2017	<0.003	0.0005 (J)			<0.003	
3/7/2017						<0.003
4/26/2017	<0.003	<0.003				
5/1/2017					<0.003	<0.003
6/27/2017						<0.003
6/29/2017	<0.003	<0.003			<0.003	
10/11/2017			0.0006 (J)			
10/12/2017				<0.003		
11/20/2017			<0.003	<0.003		
1/10/2018				<0.003		
1/11/2018			<0.003			
2/19/2018				<0.003		
2/20/2018			<0.003			
3/29/2018	<0.003	<0.003			<0.003	<0.003
4/3/2018			<0.003	<0.003		
6/28/2018			<0.003	<0.003		
8/7/2018			<0.003	<0.003		
9/24/2018			<0.003	<0.003		
3/4/2019					<0.003	<0.003
3/5/2019	<0.003	0.0011 (J)				
4/2/2019		0.0011 (J)				
4/3/2019	<0.003				<0.003	<0.003
8/21/2019			<0.003	<0.003		
9/24/2019		0.0035				<0.003
9/25/2019	<0.003				<0.003	
2/12/2020	<0.003	0.0015 (J)	<0.003	<0.003	<0.003	<0.003
3/24/2020	<0.003	0.0017 (J)		<0.003		<0.003
3/25/2020			0.0014 (J)		<0.003	
9/22/2020					<0.003	<0.003
9/24/2020	<0.003	0.0047	<0.003	<0.003		
2/8/2021						<0.003
2/9/2021	0.00032 (J)	0.0013 (J)			<0.003	
2/10/2021			<0.003	<0.003		
3/2/2021						<0.003
3/3/2021	<0.003				<0.003	
3/4/2021		0.0014 (J)	<0.003	<0.003		
8/26/2021			<0.003		<0.003	<0.003
8/27/2021	<0.003					
9/1/2021		<0.003				
9/3/2021				<0.003		
2/8/2022			<0.003	<0.003		

# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/9/2022	<0.003	<0.003				
2/10/2022						<0.003
2/11/2022					<0.003	
8/30/2022		0.0046				<0.003
8/31/2022	<0.003		<0.003	<0.003	<0.003	
2/7/2023	<0.003	<0.003	<0.003			<0.003
2/8/2023				<0.003		
2/9/2023					<0.003	
8/15/2023	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.003				
9/11/2007		<0.003				
3/20/2008		<0.003				
8/27/2008		<0.003				
3/3/2009		<0.003				
11/18/2009		<0.003				
3/3/2010		<0.003				
9/8/2010		<0.003				
3/10/2011		<0.003				
9/8/2011		<0.003				
3/5/2012		<0.003				
9/10/2012		<0.003				
2/6/2013		<0.003				
8/12/2013		<0.003				
2/5/2014		<0.003				
8/5/2014		<0.003				
2/4/2015		<0.003				
8/3/2015		<0.003				
2/16/2016		<0.003				
6/1/2016				<0.003	<0.003	
6/2/2016	<0.003		<0.003			
7/25/2016					<0.003	
7/26/2016	<0.003		0.0005 (J)	0.001 (J)		
8/31/2016		<0.003				
9/13/2016				0.001 (J)	<0.003	
9/14/2016	<0.003					<0.003
9/15/2016			<0.003			
11/1/2016				0.0015 (J)		
11/2/2016			<0.003			
11/4/2016	<0.003				<0.003	<0.003
11/28/2016		0.0014 (J)				
12/15/2016						0.0012 (J)
1/10/2017			<0.003			
1/11/2017				<0.003		
1/12/2017	<0.003					
1/16/2017					<0.003	<0.003
2/22/2017		<0.003				
3/2/2017				0.0004 (J)	<0.003	
3/3/2017						<0.003
3/7/2017	<0.003					
3/8/2017			<0.003			
4/26/2017			<0.003			
4/27/2017				0.0004 (J)	0.0017 (J)	
4/28/2017						0.0015 (J)
5/2/2017	<0.003					
5/8/2017		<0.003				
5/26/2017						0.0005 (J)
6/27/2017	<0.003			<0.003	<0.003	
6/28/2017						<0.003
6/30/2017			<0.003			
7/17/2017		<0.003				
10/16/2017		<0.003				

# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.003				
3/27/2018			<0.003		<0.003	
3/28/2018						<0.003
3/29/2018	<0.003			<0.003		
8/6/2018		<0.003				
2/25/2019		<0.003				
2/26/2019			<0.003			
2/27/2019				<0.003	<0.003	<0.003
3/4/2019	<0.003					
4/3/2019	<0.003					
6/12/2019		<0.003				
8/19/2019		<0.003				
9/24/2019	<0.003					
10/8/2019		<0.003				
2/10/2020				0.00088 (J)	<0.003	
2/11/2020						0.00036 (J)
2/12/2020	<0.003		<0.003			
3/17/2020		<0.003				
3/18/2020			<0.003		0.0004 (J)	
3/19/2020				<0.003		0.0003 (J)
3/24/2020	<0.003					
8/26/2020		0.00042 (J)				
9/22/2020	<0.003	0.00044 (J)				
9/23/2020				<0.003	<0.003	<0.003
9/25/2020			<0.003			
2/8/2021	<0.003					
2/10/2021			<0.003			0.0013 (J)
2/12/2021				<0.003	<0.003	
3/2/2021	<0.003	<0.003	<0.003			
3/3/2021				<0.003	<0.003	<0.003
8/19/2021			<0.003	<0.003	<0.003	
8/20/2021		<0.003				
8/26/2021	<0.003					
8/27/2021						<0.003
2/8/2022		<0.003				
2/9/2022				<0.003	<0.003	<0.003
2/10/2022	<0.003		<0.003			
8/30/2022	<0.003	<0.003		<0.003		<0.003
8/31/2022			<0.003		<0.003	
2/7/2023		<0.003		<0.003	<0.003	<0.003
2/8/2023			<0.003			
2/9/2023	<0.003					
8/15/2023	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.003		
6/2/2016	<0.003	<0.003			
7/25/2016	<0.003		<0.003		
7/26/2016		0.002 (J)			
9/1/2016				<0.003	
9/14/2016			<0.003		
9/15/2016		0.0027 (J)			
9/19/2016	<0.003				
11/1/2016	<0.003	<0.003	<0.003		
11/16/2016				<0.003	
1/11/2017		<0.003	<0.003		
1/16/2017	<0.003				
2/21/2017	<0.003				
2/27/2017				<0.003	
3/1/2017			<0.003		
3/2/2017		0.0008 (J)			
4/26/2017	<0.003	<0.003	<0.003		
5/8/2017				<0.003	
6/28/2017		<0.003	<0.003		
6/30/2017	<0.003				
7/13/2017				<0.003	
10/11/2017				<0.003	
3/27/2018	<0.003				
3/28/2018		<0.003	<0.003		
4/4/2018				<0.003	
9/19/2018				<0.003	
2/26/2019	<0.003				
2/27/2019		<0.003	<0.003		
8/21/2019				<0.003	
2/11/2020			<0.003		
2/12/2020	<0.003	<0.003			
3/19/2020	<0.003	0.00064 (J)	<0.003		
7/6/2020				<0.003	
8/27/2020					<0.003
8/28/2020				0.00029 (J)	
9/22/2020					<0.003
9/23/2020		<0.003	<0.003	<0.003	
9/24/2020	<0.003				
10/7/2020				<0.003	<0.003
11/12/2020				<0.003	<0.003
2/10/2021		<0.003	<0.003		
2/11/2021	<0.003				
3/1/2021	<0.003				<0.003
3/2/2021				<0.003	
3/3/2021		<0.003	<0.003		
8/19/2021	<0.003	<0.003			
8/20/2021					<0.003
8/27/2021			<0.003	<0.003	
2/9/2022		0.0018 (J)	<0.003	<0.003	<0.003
2/11/2022	<0.003				
8/31/2022	<0.003	<0.003	<0.003	<0.003	<0.003
2/8/2023	<0.003	<0.003	<0.003		

# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
2/10/2023				<0.003	<0.003
8/15/2023		<0.003		<0.003	<0.003
8/16/2023	<0.003		<0.003		



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.005	<0.005
6/7/2016				<0.005		
7/27/2016				<0.005	<0.005	<0.005
8/30/2016	<0.005					
8/31/2016		<0.005	<0.005			
9/16/2016				<0.005		<0.005
9/19/2016					<0.005	
11/3/2016				<0.005	<0.005	<0.005
11/14/2016	<0.005		<0.005			
11/15/2016		<0.005				
1/11/2017				<0.005	<0.005	<0.005
2/24/2017	<0.005					
2/27/2017			<0.005			
2/28/2017		0.0005 (J)				
3/1/2017					<0.005	<0.005
3/2/2017				<0.005		
4/26/2017					<0.005	<0.005
5/2/2017				<0.005		
5/8/2017	<0.005	0.0006 (J)				
5/9/2017			<0.005			
6/28/2017					<0.005	<0.005
6/29/2017				<0.005		
7/11/2017	<0.005					
7/13/2017		<0.005	<0.005			
10/10/2017	0.0007 (J)	0.0007 (J)	0.0006 (J)			
3/28/2018				<0.005	<0.005	0.00061 (J)
4/2/2018	<0.005					
4/3/2018			0.00061 (J)			
4/4/2018		<0.005				
6/7/2018					0.00066 (J)	
6/11/2018				<0.005		<0.005
9/19/2018	0.00072 (J)	0.00086 (J)	0.00072 (J)			
9/25/2018				<0.005	<0.005	<0.005
3/5/2019				<0.005		<0.005
3/6/2019					<0.005	
4/2/2019				<0.005		
4/3/2019					<0.005	<0.005
8/20/2019	<0.005	0.00097 (J)	0.00078 (J)			
9/25/2019				<0.005		
9/26/2019					<0.005	<0.005
10/8/2019	<0.005	<0.005				
10/9/2019			<0.005			
2/11/2020				0.0022 (J)	0.0014 (J)	0.0026 (J)
3/17/2020	<0.005	<0.005	<0.005			
3/24/2020				<0.005	<0.005	<0.005
8/27/2020	<0.005	<0.005				
8/28/2020			<0.005			
9/22/2020	<0.005	<0.005				
9/23/2020			<0.005	<0.005	<0.005	<0.005
2/9/2021					<0.005	<0.005
3/1/2021	<0.005	<0.005	<0.005			
3/3/2021				<0.005	<0.005	<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/19/2021	<0.005	<0.005	<0.005			
8/26/2021						<0.005
8/27/2021				<0.005	<0.005	
2/8/2022	0.0027 (J)					
2/9/2022		<0.005	<0.005	0.0024 (J)	0.0022 (J)	0.0024 (J)
8/30/2022				<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005			
2/7/2023				<0.005	<0.005	<0.005
2/8/2023	<0.005	<0.005				
2/9/2023			<0.005			
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.005	0.00071 (J)
6/7/2016	<0.005	<0.005				
7/26/2016					<0.005	0.001 (J)
7/27/2016	<0.005					
7/28/2016		<0.005				
9/14/2016					<0.005	<0.005
9/19/2016	<0.005	<0.005				
11/2/2016	<0.005				<0.005	<0.005
11/3/2016		<0.005				
1/12/2017						<0.005
1/13/2017	<0.005	<0.005			<0.005	
3/6/2017	<0.005	0.0017 (J)			<0.005	
3/7/2017						0.0012 (J)
4/26/2017	<0.005	<0.005				
5/1/2017					<0.005	<0.005
6/27/2017						0.0019 (J)
6/29/2017	<0.005	<0.005			<0.005	
10/11/2017			0.0009 (J)			
10/12/2017				<0.005		
11/20/2017			<0.005	<0.005		
1/10/2018				<0.005		
1/11/2018			<0.005			
2/19/2018				<0.005		
2/20/2018			<0.005			
3/29/2018	<0.005	0.0015 (J)			<0.005	0.0006 (J)
4/3/2018			<0.005	<0.005		
6/5/2018		0.0013 (J)				
6/6/2018	<0.005					0.0013 (J)
6/7/2018					0.00059 (J)	
6/28/2018			<0.005	<0.005		
8/7/2018			<0.005	<0.005		
9/24/2018			<0.005	<0.005		
9/25/2018	<0.005	0.0022 (J)				
9/26/2018					<0.005	0.0014 (J)
3/4/2019					<0.005	<0.005
3/5/2019	<0.005	0.0013 (J)				
4/2/2019		0.00096 (J)				
4/3/2019	<0.005				<0.005	<0.005
8/21/2019			0.00058 (J)	<0.005		
9/24/2019		0.0026 (J)				0.00043 (J)
9/25/2019	<0.005				<0.005	
10/9/2019			0.00063 (J)	<0.005		
2/12/2020	<0.005	0.0025 (J)	0.00058 (J)	0.0034 (J)	<0.005	0.0046 (J)
3/24/2020	<0.005	0.0013 (J)		<0.005		0.00065 (J)
3/25/2020			0.0012 (J)		<0.005	
9/22/2020					<0.005	0.001 (J)
9/24/2020	<0.005	0.0014 (J)	<0.005	<0.005		
2/8/2021						<0.005
2/9/2021	<0.005	0.001 (J)			<0.005	
2/10/2021			<0.005	<0.005		
3/2/2021						<0.005
3/3/2021	<0.005				<0.005	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		0.00078 (J)	<0.005	<0.005		
8/26/2021			<0.005		<0.005	0.0016 (J)
8/27/2021	<0.005					
9/1/2021		<0.005				
9/3/2021				<0.005		
2/8/2022			0.0034 (J)	0.003 (J)		
2/9/2022	0.0021 (J)	0.0036 (J)				
2/10/2022						0.004 (J)
2/11/2022					0.0014 (J)	
8/30/2022		0.0022 (J)				0.0031 (J)
8/31/2022	<0.005		0.0029 (J)	<0.005	<0.005	
2/7/2023	<0.005	0.0028 (J)	0.0029 (J)			0.003 (J)
2/8/2023				<0.005		
2/9/2023					<0.005	
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.005				
9/11/2007		<0.005				
3/20/2008		<0.005				
8/27/2008		<0.005				
3/3/2009		<0.005				
11/18/2009		<0.005				
3/3/2010		<0.005				
9/8/2010		<0.005				
3/10/2011		<0.005				
9/8/2011		<0.005				
3/5/2012		<0.005				
9/10/2012		<0.005				
2/6/2013		<0.005				
8/12/2013		<0.005				
2/5/2014		<0.005				
8/5/2014		<0.005				
2/4/2015		<0.005				
8/3/2015		<0.005				
2/16/2016		<0.005				
6/1/2016				0.0021	<0.005	
6/2/2016	<0.005		<0.005			
7/25/2016					<0.005	
7/26/2016	<0.005		<0.005	0.0016 (J)		
8/31/2016		<0.005				
9/13/2016				<0.005	<0.005	
9/14/2016	<0.005					<0.005
9/15/2016			<0.005			
11/1/2016				<0.005		
11/2/2016			<0.005			
11/4/2016	<0.005				<0.005	0.0017 (J)
11/28/2016		<0.005				
12/15/2016						0.0023 (J)
1/10/2017			<0.005			
1/11/2017				0.0017 (J)		
1/12/2017	<0.005					
1/16/2017					<0.005	0.0018 (J)
2/22/2017		<0.005				
3/2/2017				0.0014 (J)	<0.005	
3/3/2017						0.0016 (J)
3/7/2017	<0.005					
3/8/2017			<0.005			
4/26/2017			<0.005			
4/27/2017				0.0018 (J)	<0.005	
4/28/2017						0.002 (J)
5/2/2017	<0.005					
5/8/2017		<0.005				
5/26/2017						0.0005 (J)
6/27/2017	<0.005			0.0018 (J)	<0.005	
6/28/2017						0.0016 (J)
6/30/2017			<0.005			
7/17/2017		<0.005				
10/16/2017		<0.005				

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.005				
3/27/2018			<0.005		<0.005	
3/28/2018						0.0013 (J)
3/29/2018	<0.005			0.0017 (J)		
6/5/2018				0.0013 (J)		
6/6/2018					<0.005	
6/7/2018	<0.005					0.00082 (J)
6/8/2018			<0.005			
8/6/2018		<0.005				
9/26/2018	<0.005					
10/1/2018			<0.005	0.0016 (J)	<0.005	0.0011 (J)
2/25/2019		<0.005				
2/26/2019			<0.005			
2/27/2019				0.0015 (J)	<0.005	0.001 (J)
3/4/2019	<0.005					
3/28/2019				0.00072 (J)	<0.005	
3/29/2019			<0.005			0.00063 (J)
4/3/2019	<0.005					
6/12/2019		0.00038 (J)				
8/19/2019		0.00095 (J)				
9/24/2019	<0.005			0.0014 (J)	<0.005	<0.005
9/25/2019			<0.005			
10/8/2019		<0.005				
2/10/2020				0.0026 (J)	0.0005 (J)	
2/11/2020						0.0044 (J)
2/12/2020	0.002 (J)		<0.005			
3/17/2020		<0.005				
3/18/2020			<0.005		<0.005	
3/19/2020				0.00095 (J)		0.00066 (J)
3/24/2020	<0.005					
8/26/2020		<0.005				
9/22/2020	<0.005	<0.005				
9/23/2020				0.0011 (J)	<0.005	0.001 (J)
9/25/2020			<0.005			
2/8/2021	<0.005					
2/10/2021			<0.005			<0.005
2/12/2021				<0.005	<0.005	
3/2/2021	<0.005	<0.005	<0.005			
3/3/2021				<0.005	<0.005	0.00098 (J)
8/19/2021			<0.005	<0.005	<0.005	
8/20/2021		<0.005				
8/26/2021	<0.005					
8/27/2021						<0.005
2/8/2022		0.0033 (J)				
2/9/2022				0.0031 (J)	0.0033 (J)	0.0037 (J)
2/10/2022	0.0016 (J)		0.0016 (J)			
8/30/2022	<0.005	0.0024 (J)		<0.005		0.0027 (J)
8/31/2022			<0.005		<0.005	
2/7/2023		<0.005		<0.005	<0.005	<0.005
2/8/2023			<0.005			
2/9/2023	<0.005					
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.005		
6/2/2016	<0.005	<0.005			
7/25/2016	<0.005		<0.005		
7/26/2016		<0.005			
9/1/2016				<0.005	
9/14/2016			<0.005		
9/15/2016		<0.005			
9/19/2016	<0.005				
11/1/2016	<0.005	<0.005	<0.005		
11/16/2016				<0.005	
1/11/2017		<0.005	<0.005		
1/16/2017	<0.005				
2/21/2017	<0.005				
2/27/2017				<0.005	
3/1/2017			0.0004 (J)		
3/2/2017		<0.005			
4/26/2017	<0.005	<0.005	<0.005		
5/8/2017				0.0007 (J)	
6/28/2017		0.0007 (J)	0.0011 (J)		
6/30/2017	<0.005				
7/13/2017				0.0011 (J)	
10/11/2017				0.0011 (J)	
3/27/2018	<0.005				
3/28/2018		<0.005	<0.005		
4/4/2018				0.00087 (J)	
6/7/2018		<0.005			
6/8/2018			<0.005		
6/11/2018	<0.005				
9/19/2018				0.0012 (J)	
10/1/2018		<0.005	<0.005		
10/2/2018	<0.005				
2/26/2019	<0.005				
2/27/2019		<0.005	<0.005		
4/1/2019	<0.005	<0.005	<0.005		
8/21/2019				0.00074 (J)	
9/25/2019	<0.005	<0.005	<0.005		
10/9/2019				<0.005	
2/11/2020			0.0041 (J)		
2/12/2020	0.0032 (J)	0.0038 (J)			
3/17/2020				<0.005	
3/19/2020	<0.005	<0.005	<0.005		
7/6/2020				0.00079 (J)	
8/27/2020					<0.005
8/28/2020				0.0015 (J)	
9/22/2020					<0.005
9/23/2020		<0.005	<0.005	0.00091 (J)	
9/24/2020	<0.005				
10/7/2020				0.001 (J)	<0.005
11/12/2020				0.0014 (J)	<0.005
2/10/2021		0.00094 (J)	0.00078 (J)		
2/11/2021	<0.005				
3/1/2021	<0.005				<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.0016 (J)	
3/3/2021		<0.005	<0.005		
8/19/2021	<0.005	<0.005			
8/20/2021					<0.005
8/27/2021			<0.005	0.0022 (J)	
2/9/2022		0.002 (J)	0.0018 (J)	<0.005	<0.005
2/11/2022	0.0014 (J)				
8/31/2022	<0.005	0.0028 (J)	<0.005	<0.005	<0.005
2/8/2023	<0.005	0.003 (J)	0.0024 (J)		
2/10/2023				<0.005	<0.005
8/15/2023		<0.005		<0.005	<0.005
8/16/2023	<0.005		<0.005		



# Time Series

Constituent: Barium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					0.028	0.019
6/7/2016				0.012		
7/27/2016				0.0126	0.0294	0.0167
8/30/2016	0.0413					
8/31/2016		0.126	0.0754			
9/16/2016				0.0127		0.0168
9/19/2016					0.0247	
11/3/2016				0.0128	0.0248	0.0159
11/14/2016	0.0383		0.0701			
11/15/2016		0.115				
1/11/2017				0.0142	0.0266	0.0162
2/24/2017	0.0351					
2/27/2017			0.0834			
2/28/2017		0.121				
3/1/2017					0.0275	0.0195
3/2/2017				0.0155		
4/26/2017					0.024	0.0182
5/2/2017				0.0138		
5/8/2017	0.0251	0.125				
5/9/2017			0.0779			
6/28/2017					0.0237	0.018
6/29/2017				0.0128		
7/11/2017	0.0233					
7/13/2017		0.106	0.0719			
10/10/2017	0.0207	0.112	0.0708			
3/28/2018				0.014	0.024	0.021
4/2/2018	0.022					
4/3/2018			0.068			
4/4/2018		0.12				
6/7/2018					0.023	
6/11/2018				0.013		0.019
9/19/2018	0.023	0.11	0.064			
9/25/2018				0.014	0.023	0.019
3/5/2019				0.015		0.02
3/6/2019					0.024	
4/2/2019				0.016		
4/3/2019					0.025	0.017
8/20/2019	0.024	0.1	0.057			
9/25/2019				0.015		
9/26/2019					0.021	0.017
10/8/2019	0.025	0.098				
10/9/2019			0.058			
2/11/2020				0.015	0.022	0.019
3/17/2020	0.035	0.099	0.061			
3/24/2020				0.015	0.021	0.017
8/27/2020	0.027	0.086				
8/28/2020			0.053			
9/22/2020	0.026	0.096				
9/23/2020			0.052	0.015	0.021	0.016
2/9/2021					0.023	0.017
3/1/2021	0.029	0.087	0.055			
3/3/2021				0.017	0.023	0.017

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/19/2021	0.029	0.089	0.055			
8/26/2021						0.015
8/27/2021				0.016	0.02	
2/8/2022	0.03					
2/9/2022		0.083	0.053	0.017	0.021	0.014
8/30/2022				0.017	0.017	0.012
8/31/2022	0.029	0.073	0.052			
2/7/2023				0.017	0.019	0.012
2/8/2023	0.031	0.081				
2/9/2023			0.049			
8/15/2023	0.032	0.084	0.049	0.016	0.02	0.012

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					0.013	0.0084
6/7/2016	0.014	0.0058				
7/26/2016					0.0158	0.01
7/27/2016	0.0141					
7/28/2016		0.0068 (J)				
9/14/2016					0.0143	0.0085 (J)
9/19/2016	0.0155	0.0071 (J)				
11/2/2016	0.0157				0.0148	0.0091 (J)
11/3/2016		0.0092 (J)				
1/12/2017						0.0089 (J)
1/13/2017	0.0158	0.0105			0.0146	
3/6/2017	0.0163	0.0105			0.0141	
3/7/2017						0.009 (J)
4/26/2017	0.0177	0.011				
5/1/2017					0.0149	0.0083 (J)
6/27/2017						0.0074 (J)
6/29/2017	0.017	0.0109			0.0154	
10/11/2017			0.0092 (J)			
10/12/2017				0.0328		
11/20/2017			0.0081 (J)	0.0671		
1/10/2018				0.0656		
1/11/2018			0.0077 (J)			
2/19/2018				0.0598		
2/20/2018			<0.01			
3/29/2018	0.014	<0.01			0.014	<0.01
4/3/2018			<0.01	0.045		
6/5/2018		0.011				
6/6/2018	0.015					0.008 (J)
6/7/2018					0.014	
6/28/2018			0.0078 (J)	0.047		
8/7/2018			0.0078 (J)	0.048		
9/24/2018			0.0071 (J)	0.042		
9/25/2018	0.015	0.011				
9/26/2018					0.02	0.0075 (J)
3/4/2019					0.016	0.0077 (J)
3/5/2019	0.016	0.011				
4/2/2019		0.011				
4/3/2019	0.018				0.017	0.0087 (J)
8/21/2019			0.015	0.035		
9/24/2019		0.011				0.0075 (J)
9/25/2019	0.014				0.015	
10/9/2019			0.013	0.036		
2/12/2020	0.014	0.011	0.011	0.035	0.012	0.0079 (J)
3/24/2020	0.015	0.011		0.033		0.0076 (J)
3/25/2020			0.014		0.016	
9/22/2020					0.013	0.0076 (J)
9/24/2020	0.015	0.01	0.016	0.028		
2/8/2021						0.0079 (J)
2/9/2021	0.015	0.011			0.013	
2/10/2021			0.027	0.032		
3/2/2021						0.014
3/3/2021	0.015				0.014	

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		0.011	0.028	0.032		
8/26/2021			0.038		0.012	0.0092
8/27/2021	0.013					
9/1/2021		0.0099				
9/3/2021				0.035		
2/8/2022			0.041	0.039		
2/9/2022	0.014	0.011				
2/10/2022						0.0084
2/11/2022					0.013	
8/30/2022		0.0085				0.0079
8/31/2022	0.011		0.035	0.035	0.013	
2/7/2023	0.014	0.01	0.03			0.0075
2/8/2023				0.037		
2/9/2023					0.014	
8/15/2023	0.012	0.0075	0.031	0.034	0.011	0.0074

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		0.032				
9/11/2007		0.017				
3/20/2008		0.025				
8/27/2008		0.041				
3/3/2009		0.053				
11/18/2009		0.05				
3/3/2010		0.061				
9/8/2010		0.071				
3/10/2011		0.057				
9/8/2011		0.057				
3/5/2012		0.061				
9/10/2012		0.055				
2/6/2013		0.061				
8/12/2013		0.055				
2/5/2014		0.063				
8/5/2014		0.038				
2/4/2015		0.039				
8/3/2015		0.031				
2/16/2016		0.045				
6/1/2016				0.008	0.012	
6/2/2016	0.019		0.0081			
7/25/2016					0.0091 (J)	
7/26/2016	0.0179		0.0082 (J)	0.006 (J)		
8/31/2016		0.0542				
9/13/2016				0.0084 (J)	0.008 (J)	
9/14/2016	0.0181					0.0037 (J)
9/15/2016			0.0087 (J)			
11/1/2016				0.0062 (J)		
11/2/2016			0.0082 (J)			
11/4/2016	0.0165				0.0067 (J)	0.0059 (J)
11/28/2016		0.0529				
12/15/2016						0.0056 (J)
1/10/2017			0.0086 (J)			
1/11/2017				0.0069 (J)		
1/12/2017	0.0199					
1/16/2017					0.0096 (J)	0.0049 (J)
2/22/2017		0.0607				
3/2/2017				0.0071 (J)	0.0112	
3/3/2017						0.0046 (J)
3/7/2017	0.0196					
3/8/2017			0.0088 (J)			
4/26/2017			0.0085 (J)			
4/27/2017				0.0064 (J)	0.0106	
4/28/2017						0.0039 (J)
5/2/2017	0.0202					
5/8/2017		0.065				
5/26/2017						0.0034 (J)
6/27/2017	0.0184			0.0054 (J)	0.0092 (J)	
6/28/2017						0.003 (J)
6/30/2017			0.0081 (J)			
7/17/2017		0.06				
10/16/2017		0.0542				

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		0.0533				
3/27/2018			<0.01		<0.01	
3/28/2018						<0.01
3/29/2018	0.021			<0.01		
6/5/2018				0.0069 (J)		
6/6/2018					0.0082 (J)	
6/7/2018	0.019					0.0037 (J)
6/8/2018			0.007 (J)			
8/6/2018		0.044				
9/26/2018	0.019					
10/1/2018			0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)
2/25/2019		0.045				
2/26/2019			0.0067 (J)			
2/27/2019				0.0074 (J)	0.008 (J)	0.0035 (J)
3/4/2019	0.019					
3/28/2019				0.0082 (J)	0.0082 (J)	
3/29/2019			0.0066 (J)			0.0039 (J)
4/3/2019	0.023					
6/12/2019		0.063				
8/19/2019		0.065				
9/24/2019	0.019			0.0072 (J)	0.0086 (J)	0.0038 (J)
9/25/2019			0.0071 (J)			
10/8/2019		0.058				
2/10/2020				0.0066 (J)	0.0091 (J)	
2/11/2020						0.0036 (J)
2/12/2020	0.021		0.007 (J)			
3/17/2020		0.047				
3/18/2020			0.0076 (J)		0.0084 (J)	
3/19/2020				0.0076 (J)		0.0036 (J)
3/24/2020	0.021					
8/26/2020		0.044				
9/22/2020	0.019	0.045				
9/23/2020				0.0068 (J)	0.0079 (J)	0.0039 (J)
9/25/2020			0.0073 (J)			
2/8/2021	0.02					
2/10/2021			0.0078 (J)			0.0032 (J)
2/12/2021				0.0057 (J)	0.009 (J)	
3/2/2021	0.019	0.039	0.0076			
3/3/2021				0.0068	0.0094	0.0041 (J)
8/19/2021			0.0077	0.0065	0.0079	
8/20/2021		0.036				
8/26/2021	0.019					
8/27/2021						0.003 (J)
2/8/2022		0.037				
2/9/2022				0.0067	0.0088	0.0029 (J)
2/10/2022	0.02		0.0088			
8/30/2022	0.017	0.031		0.0066		0.003 (J)
8/31/2022			0.0075		0.0074	
2/7/2023		0.034		0.14	0.21	0.0026 (J)
2/8/2023			0.0089			
2/9/2023	0.019					
8/15/2023	0.018	0.03	0.0079	0.0059	0.0078	0.0031 (J)

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.0038		
6/2/2016	0.0064	0.01			
7/25/2016	0.0071 (J)		0.0031 (J)		
7/26/2016		0.0088 (J)			
9/1/2016				0.0414	
9/14/2016			0.0027 (J)		
9/15/2016		0.009 (J)			
9/19/2016	0.0069 (J)				
11/1/2016	0.007 (J)	0.0079 (J)	0.0027 (J)		
11/16/2016				0.0365	
1/11/2017		0.0075 (J)	0.0036 (J)		
1/16/2017	0.0071 (J)				
2/21/2017	0.0077 (J)				
2/27/2017				0.0326	
3/1/2017			0.0036 (J)		
3/2/2017		0.009 (J)			
4/26/2017	0.0074 (J)	0.0078 (J)	0.0038 (J)		
5/8/2017				0.0332	
6/28/2017		0.0071 (J)	0.004 (J)		
6/30/2017	0.0076 (J)				
7/13/2017				0.0365	
10/11/2017				0.0288	
3/27/2018	<0.01				
3/28/2018		<0.01	<0.01		
4/4/2018				0.025	
6/7/2018		0.0068 (J)			
6/8/2018			0.0034 (J)		
6/11/2018	0.007 (J)				
9/19/2018				0.03	
10/1/2018		0.0065 (J)	0.0034 (J)		
10/2/2018	0.0069 (J)				
2/26/2019	0.007 (J)				
2/27/2019		0.0059 (J)	0.0034 (J)		
4/1/2019	0.0072 (J)	0.0064 (J)	0.003 (J)		
8/21/2019				0.023	
9/25/2019	0.0066 (J)	0.0059 (J)	0.005 (J)		
10/9/2019				0.024	
2/11/2020			0.0031 (J)		
2/12/2020	0.0073 (J)	0.0062 (J)			
3/17/2020				0.022	
3/19/2020	0.0074 (J)	0.0072 (J)	0.0029 (J)		
7/6/2020				0.048	
8/27/2020					0.021
8/28/2020				0.05	
9/22/2020					0.021
9/23/2020		0.0051 (J)	0.0039 (J)	0.045	
9/24/2020	0.0062 (J)				
10/7/2020				0.042	0.019
11/12/2020				0.042	0.019
2/10/2021		0.0059 (J)	0.0029 (J)		
2/11/2021	0.0077 (J)				
3/1/2021	0.007				0.019

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.044	
3/3/2021		0.0064	0.0031 (J)		
8/19/2021	0.0071	0.0052			
8/20/2021					0.019
8/27/2021			0.0039 (J)	0.043	
2/9/2022		0.0051	0.0031 (J)	0.042	0.018
2/11/2022	0.0077				
8/31/2022	0.0068	0.0048 (J)	0.003 (J)	0.036	0.017
2/8/2023	0.0066	0.0048 (J)	0.0029 (J)		
2/10/2023				0.041	0.016
8/15/2023		0.0046 (J)		0.04	0.019
8/16/2023	0.0066		0.0037 (J)		



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.0005	<0.0005
6/7/2016				<0.0005		
7/27/2016				<0.0005	<0.0005	<0.0005
8/30/2016	<0.0005					
8/31/2016		<0.0005	<0.0005			
9/16/2016				<0.0005		<0.0005
9/19/2016					<0.0005	
11/3/2016				<0.0005	<0.0005	<0.0005
11/14/2016	<0.0005		<0.0005			
11/15/2016		<0.0005				
1/11/2017				<0.0005	<0.0005	<0.0005
2/24/2017	<0.0005					
2/27/2017			<0.0005			
2/28/2017		<0.0005				
3/1/2017					<0.0005	<0.0005
3/2/2017				8E-05 (J)		
4/26/2017					<0.0005	<0.0005
5/2/2017				<0.0005		
5/8/2017	7E-05 (J)	<0.0005				
5/9/2017			<0.0005			
6/28/2017					<0.0005	<0.0005
6/29/2017				<0.0005		
7/11/2017	<0.0005					
7/13/2017		<0.0005	<0.0005			
10/10/2017	<0.0005	<0.0005	<0.0005			
3/28/2018				<0.0005	<0.0005	<0.0005
4/2/2018	<0.0005					
4/3/2018			<0.0005			
4/4/2018		<0.0005				
6/7/2018					<0.0005	
6/11/2018				9E-05 (J)		5.7E-05 (J)
9/19/2018	5.7E-05 (J)	<0.0005	<0.0005			
9/25/2018				8.9E-05 (J)	<0.0005	8.2E-05 (J)
3/5/2019				9.1E-05 (J)		7.9E-05 (J)
3/6/2019					<0.0005	
4/2/2019				9E-05 (J)		
4/3/2019					<0.0005	7.5E-05 (J)
8/20/2019	<0.0005	<0.0005	<0.0005			
9/25/2019				8.1E-05 (J)		
9/26/2019					<0.0005	8.4E-05 (J)
2/11/2020				7.8E-05 (J)	<0.0005	7.6E-05 (J)
3/24/2020				8E-05 (J)	<0.0005	8.9E-05 (J)
8/27/2020	4.7E-05 (J)	<0.0005				
8/28/2020			<0.0005			
9/22/2020	<0.0005	<0.0005				
9/23/2020			<0.0005	8.1E-05 (J)	<0.0005	8.8E-05 (J)
2/9/2021					<0.0005	9.8E-05 (J)
3/1/2021	5.5E-05 (J)	<0.0005	<0.0005			
3/3/2021				9.9E-05 (J)	<0.0005	0.00011 (J)
8/19/2021	<0.0005	<0.0005	<0.0005			
8/26/2021						9.3E-05 (J)
8/27/2021				0.0001 (J)	<0.0005	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
2/8/2022	5.6E-05 (J)					
2/9/2022		<0.0005	<0.0005	0.00011 (J)	<0.0005	8.9E-05 (J)
8/30/2022				0.0001 (J)	<0.0005	8.2E-05 (J)
8/31/2022	<0.0005	<0.0005	<0.0005			
2/7/2023				9.6E-05 (J)	<0.0005	7.1E-05 (J)
2/8/2023	<0.0005	<0.0005				
2/9/2023			<0.0005			
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	5.7E-05 (J)

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.0005	<0.0005
6/7/2016	<0.0005	<0.0005				
7/26/2016					<0.0005	<0.0005
7/27/2016	<0.0005					
7/28/2016		<0.0005				
9/14/2016					<0.0005	<0.0005
9/19/2016	<0.0005	<0.0005				
11/2/2016	<0.0005				<0.0005	<0.0005
11/3/2016		<0.0005				
1/12/2017						<0.0005
1/13/2017	<0.0005	<0.0005			<0.0005	
3/6/2017	<0.0005	<0.0005			<0.0005	
3/7/2017						<0.0005
4/26/2017	<0.0005	<0.0005				
5/1/2017					<0.0005	<0.0005
6/27/2017						<0.0005
6/29/2017	<0.0005	<0.0005			<0.0005	
10/11/2017			<0.0005			
10/12/2017				0.0002 (J)		
11/20/2017			<0.0005	0.0003 (J)		
1/10/2018				0.0003 (J)		
1/11/2018			<0.0005			
2/19/2018				<0.0005		
2/20/2018			<0.0005			
3/29/2018	<0.0005	<0.0005			<0.0005	<0.0005
4/3/2018			<0.0005	<0.0005		
6/5/2018		<0.0005				
6/6/2018	8E-05 (J)					<0.0005
6/7/2018					<0.0005	
6/28/2018			<0.0005	0.00029 (J)		
8/7/2018			<0.0005	0.00024 (J)		
9/24/2018			<0.0005	0.00019 (J)		
9/25/2018	6.1E-05 (J)	<0.0005				
9/26/2018					<0.0005	<0.0005
3/4/2019					<0.0005	<0.0005
3/5/2019	0.00011 (J)	<0.0005				
4/2/2019		<0.0005				
4/3/2019	6.4E-05 (J)				<0.0005	<0.0005
8/21/2019			<0.0005	0.0002 (J)		
9/24/2019		<0.0005				<0.0005
9/25/2019	<0.0005				<0.0005	
10/9/2019			<0.0005	0.0002 (J)		
2/12/2020	7.8E-05 (J)	<0.0005	<0.0005	0.00018 (J)	<0.0005	<0.0005
3/24/2020	7.6E-05 (J)	<0.0005		0.00022 (J)		<0.0005
3/25/2020			<0.0005		<0.0005	
9/22/2020					<0.0005	<0.0005
9/24/2020	8.3E-05 (J)	<0.0005	<0.0005	0.0002 (J)		
2/8/2021						<0.0005
2/9/2021	6.8E-05 (J)	<0.0005			<0.0005	
2/10/2021			5.1E-05 (J)	0.00021 (J)		
3/2/2021						<0.0005
3/3/2021	6.8E-05 (J)				<0.0005	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		<0.0005	<0.0005	0.00021 (J)		
8/26/2021			<0.0005		<0.0005	<0.0005
8/27/2021	5.9E-05 (J)					
9/1/2021		<0.0005				
9/3/2021				0.00024 (J)		
2/8/2022			<0.0005	0.00028 (J)		
2/9/2022	7.7E-05 (J)	<0.0005				
2/10/2022						<0.0005
2/11/2022					<0.0005	
8/30/2022		<0.0005				<0.0005
8/31/2022	<0.0005		<0.0005	0.00025 (J)	<0.0005	
2/7/2023	7.4E-05 (J)	<0.0005	<0.0005			<0.0005
2/8/2023				0.00026 (J)		
2/9/2023					<0.0005	
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.0005				
9/11/2007		<0.0005				
3/20/2008		<0.0005				
8/27/2008		<0.0005				
3/3/2009		<0.0005				
11/18/2009		<0.0005				
3/3/2010		<0.0005				
9/8/2010		<0.0005				
3/10/2011		<0.0005				
9/8/2011		<0.0005				
3/5/2012		<0.0005				
9/10/2012		<0.0005				
2/6/2013		<0.0005				
8/12/2013		<0.0005				
2/5/2014		<0.0005				
8/5/2014		<0.0005				
2/4/2015		<0.0005				
8/3/2015		<0.0005				
2/16/2016		<0.0005				
6/1/2016				<0.0005	<0.0005	
6/2/2016	<0.0005		<0.0005			
7/25/2016					<0.0005	
7/26/2016	<0.0005		0.0002 (J)	<0.0005		
8/31/2016		<0.0005				
9/13/2016				<0.0005	<0.0005	
9/14/2016	<0.0005					<0.0005
9/15/2016			0.0002 (J)			
11/1/2016				<0.0005		
11/2/2016			0.0002 (J)			
11/4/2016	<0.0005				<0.0005	<0.0005
11/28/2016		<0.0005				
12/15/2016						<0.0005
1/10/2017			0.0002 (J)			
1/11/2017				<0.0005		
1/12/2017	<0.0005					
1/16/2017					<0.0005	<0.0005
2/22/2017		<0.0005				
3/2/2017				<0.0005	<0.0005	
3/3/2017						<0.0005
3/7/2017	<0.0005					
3/8/2017			0.0002 (J)			
4/26/2017			0.0002 (J)			
4/27/2017				<0.0005	<0.0005	
4/28/2017						<0.0005
5/2/2017	<0.0005					
5/8/2017		<0.0005				
5/26/2017						<0.0005
6/27/2017	<0.0005			<0.0005	<0.0005	
6/28/2017						<0.0005
6/30/2017			0.0002 (J)			
7/17/2017		<0.0005				
10/16/2017		<0.0005				

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.0005				
3/27/2018			<0.0005		<0.0005	
3/28/2018						<0.0005
3/29/2018	<0.0005			<0.0005		
6/7/2018	<0.0005					
8/6/2018		<0.0005				
9/26/2018	<0.0005					
2/25/2019		<0.0005				
2/26/2019			0.00016 (J)			
2/27/2019				<0.0005	<0.0005	<0.0005
3/4/2019	<0.0005					
3/28/2019				<0.0005	<0.0005	
3/29/2019			0.00017 (J)			<0.0005
4/3/2019	<0.0005					
6/12/2019		<0.0005				
8/19/2019		<0.0005				
9/24/2019	<0.0005			<0.0005	<0.0005	<0.0005
9/25/2019			0.00018 (J)			
10/8/2019		<0.0005				
2/10/2020				<0.0005	<0.0005	
2/11/2020						<0.0005
2/12/2020	<0.0005		0.00019 (J)			
3/17/2020		<0.0005				
3/18/2020			0.00021 (J)		<0.0005	
3/19/2020				<0.0005		<0.0005
3/24/2020	<0.0005					
8/26/2020		<0.0005				
9/22/2020	<0.0005	<0.0005				
9/23/2020				<0.0005	<0.0005	<0.0005
9/25/2020			0.00018 (J)			
2/8/2021	<0.0005					
2/10/2021			0.00019 (J)			<0.0005
2/12/2021				<0.0005	<0.0005	
3/2/2021	<0.0005	<0.0005	0.00018 (J)			
3/3/2021				<0.0005	<0.0005	<0.0005
8/19/2021			0.00022 (J)	<0.0005	<0.0005	
8/20/2021		<0.0005				
8/26/2021	<0.0005					
8/27/2021						<0.0005
2/8/2022		<0.0005				
2/9/2022				<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005		0.00025 (J)			
8/30/2022	<0.0005	<0.0005		<0.0005		<0.0005
8/31/2022			0.0002 (J)		<0.0005	
2/7/2023		<0.0005		0.0011	0.00054	<0.0005
2/8/2023			0.00022 (J)			
2/9/2023	<0.0005					
8/15/2023	<0.0005	<0.0005	0.00018 (J)	<0.0005	<0.0005	<0.0005

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.0005		
6/2/2016	<0.0005	<0.0005			
7/25/2016	<0.0005		<0.0005		
7/26/2016		<0.0005			
9/1/2016				<0.0005	
9/14/2016			<0.0005		
9/15/2016		<0.0005			
9/19/2016	<0.0005				
11/1/2016	<0.0005	<0.0005	<0.0005		
11/16/2016				<0.0005	
1/11/2017		<0.0005	<0.0005		
1/16/2017	<0.0005				
2/21/2017	<0.0005				
2/27/2017				<0.0005	
3/1/2017			<0.0005		
3/2/2017		<0.0005			
4/26/2017	<0.0005	<0.0005	<0.0005		
5/8/2017				<0.0005	
6/28/2017		<0.0005	<0.0005		
6/30/2017	<0.0005				
7/13/2017				<0.0005	
10/11/2017				<0.0005	
3/27/2018	<0.0005				
3/28/2018		<0.0005	<0.0005		
4/4/2018				<0.0005	
9/19/2018				<0.0005	
2/26/2019	7.2E-05 (J)				
2/27/2019		<0.0005	<0.0005		
4/1/2019	<0.0005	<0.0005	<0.0005		
8/21/2019				<0.0005	
9/25/2019	<0.0005	<0.0005	<0.0005		
2/11/2020			<0.0005		
2/12/2020	<0.0005	<0.0005			
3/19/2020	<0.0005	<0.0005	<0.0005		
7/6/2020				<0.0005	
8/27/2020					<0.0005
8/28/2020				<0.0005	
9/22/2020					<0.0005
9/23/2020		<0.0005	5.9E-05 (J)	<0.0005	
9/24/2020	<0.0005				
10/7/2020				<0.0005	<0.0005
11/12/2020				<0.0005	<0.0005
2/10/2021		<0.0005	<0.0005		
2/11/2021	4.7E-05 (J)				
3/1/2021	<0.0005				<0.0005
3/2/2021				<0.0005	
3/3/2021		<0.0005	<0.0005		
8/19/2021	<0.0005	<0.0005			
8/20/2021					<0.0005
8/27/2021			<0.0005	<0.0005	
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005
2/11/2022	<0.0005				

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/8/2023	<0.0005	<0.0005	<0.0005		
2/10/2023				<0.0005	<0.0005
8/15/2023		<0.0005		<0.0005	<0.0005
8/16/2023	<0.0005		<0.0005		



# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.04	<0.04
6/7/2016				<0.04		
7/27/2016				0.008 (J)	<0.04	0.0059 (J)
8/30/2016	0.0166 (J)					
8/31/2016		0.541	0.308			
9/16/2016				0.0086 (J)		0.0079 (J)
9/19/2016					<0.04	
11/3/2016				0.0077 (J)	<0.04	0.0082 (J)
11/14/2016	0.0166 (J)		0.368			
11/15/2016		0.706				
1/11/2017				0.0092 (J)	<0.04	0.0096 (J)
2/24/2017	0.0145 (J)					
2/27/2017			0.321			
2/28/2017		0.623				
3/1/2017					<0.04	<0.04
3/2/2017				0.0095 (J)		
4/26/2017					<0.04	0.0091 (J)
5/2/2017				<0.04		
5/8/2017	0.0141 (J)	0.69				
5/9/2017			0.338			
6/28/2017					<0.04	0.0079 (J)
6/29/2017				0.0074 (J)		
7/11/2017	0.0131 (J)					
7/13/2017		0.649	0.34			
10/4/2017				0.0077 (J)		0.009 (J)
10/5/2017					<0.04	
10/10/2017	0.0124 (J)	0.603	0.319			
4/2/2018	0.013 (J)					
4/3/2018			0.35			
4/4/2018		0.66				
6/7/2018					<0.04	
6/11/2018				0.01 (J)		0.0093 (J)
9/19/2018	0.012 (J)	0.66	0.35			
9/25/2018				0.0096 (J)	0.0046 (J)	0.007 (J)
3/27/2019	0.013 (J)	0.57	0.33			
4/2/2019				0.0066 (J)		
4/3/2019					<0.04	0.0053 (J)
9/25/2019				0.0081 (J)		
9/26/2019					0.0062 (J)	0.0072 (J)
10/8/2019	0.012 (J)	0.58				
10/9/2019			0.35			
3/17/2020	0.023 (J)	0.61	0.37			
3/24/2020				0.0092 (J)	0.0054 (J)	0.01 (J)
9/22/2020	0.0076 (J)	0.59				
9/23/2020			0.32	0.0066 (J)	0.021 (J)	0.006 (J)
3/1/2021	0.013 (J)	0.54	0.32			
3/3/2021				0.01 (J)	<0.04	0.0094 (J)
8/19/2021	0.011 (J)	0.56	0.31			
8/26/2021						<0.04
8/27/2021				0.011 (J)	<0.04	
2/8/2022	0.015 (J)					
2/9/2022		0.58	0.34	0.0098 (J)	<0.04	<0.04

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				0.013 (J)	<0.04	0.014 (J)
8/31/2022	0.0091 (J)	0.54	0.33			
2/7/2023				0.014 (J)	<0.04	<0.04
2/8/2023	0.011 (J)	0.59				
2/9/2023			0.35			
8/15/2023	<0.04	0.6	0.36	<0.04	<0.04	<0.04

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.04	<0.04
6/7/2016	<0.04	<0.04				
7/26/2016					0.0047 (J)	0.0052 (J)
7/27/2016	<0.04					
7/28/2016		<0.04				
9/14/2016					<0.04	0.0071 (J)
9/19/2016	<0.04	<0.04				
11/2/2016	<0.04				<0.04	<0.04
11/3/2016		<0.04				
1/12/2017						0.0076 (J)
1/13/2017	<0.04	<0.04			<0.04	
3/6/2017	<0.04	<0.04			<0.04	
3/7/2017						0.0089 (J)
4/26/2017	<0.04	<0.04				
5/1/2017					<0.04	0.0061 (J)
6/27/2017						0.0079 (J)
6/29/2017	<0.04	<0.04			<0.04	
10/3/2017		<0.04				0.0094 (J)
10/4/2017	<0.04					
10/5/2017					<0.04	
10/11/2017			0.0135 (J)			
10/12/2017				0.0401		
11/20/2017			0.0251 (J)	0.156		
1/10/2018				0.15		
1/11/2018			0.0255 (J)			
2/19/2018				0.146		
2/20/2018			<0.04			
4/3/2018			0.033 (J)	0.12		
6/5/2018		0.0092 (J)				
6/6/2018	0.0049 (J)					0.0098 (J)
6/7/2018					0.0045 (J)	
6/28/2018			0.053	0.16		
8/7/2018			0.024 (J)	0.12		
9/24/2018			0.028 (J)	0.099		
9/25/2018	<0.04	0.0054 (J)				
9/26/2018					0.005 (J)	0.01 (J)
3/26/2019				0.096		
3/27/2019			0.017 (J)			
4/2/2019		0.011 (J)				
4/3/2019	<0.04				0.0055 (J)	0.0076 (J)
9/24/2019		0.018 (J)				0.01 (J)
9/25/2019	<0.04				<0.04	
10/9/2019			0.017 (J)	0.079		
3/24/2020	<0.04	0.016 (J)		0.088 (J)		0.011 (J)
3/25/2020			0.043 (J)		0.011 (J)	
9/22/2020					<0.04	0.0079 (J)
9/24/2020	0.0094 (J)	0.013 (J)	0.037 (J)	0.087 (J)		
3/2/2021						0.0068 (J)
3/3/2021	<0.04				0.0056 (J)	
3/4/2021		0.0079 (J)	0.033 (J)	0.078		
8/26/2021			0.095		<0.04	0.009 (J)
8/27/2021	<0.04					

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		<0.04				
9/3/2021				0.077		
2/8/2022			0.13	0.074		
2/9/2022	<0.04	<0.04				
2/10/2022						0.011 (J)
2/11/2022					<0.04	
8/30/2022		0.012 (J)				0.0098 (J)
8/31/2022	<0.04		0.14	0.062	<0.04	
2/7/2023	<0.04	<0.04	0.13			<0.04
2/8/2023				0.057		
2/9/2023					<0.04	
8/15/2023	<0.04	0.046 (J)	0.15 (J)	0.052 (J)	<0.04	<0.04

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				<0.04	<0.04	
6/2/2016	<0.04		<0.04			
7/25/2016					<0.04	
7/26/2016	<0.04		0.0177 (J)	0.0055 (J)		
8/31/2016		0.0315 (J)				
9/13/2016				<0.04	<0.04	
9/14/2016	0.01 (J)					<0.04
9/15/2016			0.0214 (J)			
11/1/2016				0.0086 (J)		
11/2/2016			<0.04			
11/4/2016	<0.04				<0.04	<0.04
11/28/2016		0.0095 (J)				
12/15/2016						0.0107 (J)
1/10/2017			0.0198 (J)			
1/11/2017				0.0074 (J)		
1/12/2017	<0.04					
1/16/2017					<0.04	<0.04
2/22/2017		<0.04				
3/2/2017				0.008 (J)	<0.04	
3/3/2017						<0.04
3/7/2017	<0.04					
3/8/2017			0.0189 (J)			
4/26/2017			0.0161 (J)			
4/27/2017				0.0066 (J)	<0.04	
4/28/2017						<0.04
5/2/2017	<0.04					
5/8/2017		0.0084 (J)				
5/26/2017						<0.04
6/27/2017	<0.04			0.0087 (J)	0.006 (J)	
6/28/2017						<0.04
6/30/2017			0.0173 (J)			
7/17/2017		0.0092 (J)				
10/3/2017	<0.04			0.0072 (J)	0.0071 (J)	<0.04
10/5/2017			0.0173 (J)			
10/16/2017		<0.04				
2/19/2018		<0.04				
6/5/2018				0.0052 (J)		
6/6/2018					<0.04	
6/7/2018	<0.04					<0.04
6/8/2018			0.013 (J)			
8/6/2018		<0.04				
9/26/2018	0.0057 (J)					
10/1/2018			0.015 (J)	0.021 (J)	0.0049 (J)	<0.04
2/25/2019		<0.04				
3/28/2019				0.005 (J)	<0.04	
3/29/2019			0.014 (J)			0.0065 (J)
4/3/2019	0.0044 (J)					
6/12/2019		<0.04				
9/24/2019	0.0049 (J)			0.0064 (J)	0.0055 (J)	0.0076 (J)
9/25/2019			0.018 (J)			
10/8/2019		<0.04				
3/17/2020		0.0051 (J)				

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			0.02 (J)		0.0087 (J)	
3/19/2020				0.0085 (J)		0.0073 (J)
3/24/2020	0.0068 (J)					
9/22/2020	0.0053 (J)	0.0079 (J)				
9/23/2020				<0.04	<0.04	<0.04
9/25/2020			0.02 (J)			
3/2/2021	0.011 (J)	<0.04	0.017 (J)			
3/3/2021				<0.04	<0.04	<0.04
8/19/2021			0.018 (J)	<0.04	<0.04	
8/20/2021		<0.04				
8/26/2021	<0.04					
8/27/2021						<0.04
2/8/2022		<0.04				
2/9/2022				<0.04	<0.04	<0.04
2/10/2022	<0.04		0.02 (J)			
8/30/2022	<0.04	<0.04		<0.04		<0.04
8/31/2022			0.015 (J)		<0.04	
2/7/2023		<0.04		<0.04	<0.04	<0.04
2/8/2023			0.015 (J)			
2/9/2023	<0.04					
8/15/2023	<0.04	<0.04	0.017 (J)	<0.04	0.0094 (J)	<0.04

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.04		
6/2/2016	<0.04	<0.04			
7/25/2016	<0.04		<0.04		
7/26/2016		0.0097 (J)			
9/1/2016				2.12	
9/14/2016			<0.04		
9/15/2016		0.0102 (J)			
9/19/2016	<0.04				
11/1/2016	<0.04	<0.04	<0.04		
11/16/2016				2.03	
1/11/2017		<0.04	<0.04		
1/16/2017	<0.04				
2/21/2017	<0.04				
2/27/2017				1.29	
3/1/2017			<0.04		
3/2/2017		0.0084 (J)			
4/26/2017	<0.04	<0.04	<0.04		
5/8/2017				1.71	
6/28/2017		<0.04	<0.04		
6/30/2017	<0.04				
7/13/2017				1.62	
10/4/2017	<0.04	<0.04	<0.04		
10/11/2017				1.17	
4/4/2018				1.2	
6/7/2018		0.004 (J)			
6/8/2018			<0.04		
6/11/2018	0.014 (J)				
9/19/2018				1.2	
10/1/2018		<0.04	<0.04		
10/2/2018	<0.04				
3/27/2019				0.89	
4/1/2019	<0.04	<0.04	<0.04		
9/25/2019	<0.04	0.0054 (J)	<0.04		
10/9/2019				1.1	
3/17/2020				1.3	
3/19/2020	0.0052 (J)	0.0073 (J)	0.0053 (J)		
7/6/2020				2	
8/27/2020					0.014 (J)
8/28/2020				1.8	
9/22/2020					<0.04
9/23/2020		0.012 (J)	0.0073 (J)	2	
9/24/2020	0.0075 (J)				
10/7/2020				1.8	0.018 (J)
11/12/2020				1.8	0.012 (J)
3/1/2021	<0.04				0.015 (J)
3/2/2021				1.9	
3/3/2021		<0.04	<0.04		
8/19/2021	<0.04	<0.04			
8/20/2021					<0.04
8/27/2021			<0.04	1.9	
2/9/2022		0.01 (J)	<0.04	2.1	0.0089 (J)
2/11/2022	<0.04				

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	<0.04	<0.04	<0.04	2.1	<0.04
2/8/2023	<0.04	<0.04	<0.04		
2/10/2023				2	<0.04
8/15/2023		<0.04		2.1	0.014 (J)
8/16/2023	<0.04		<0.04		



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.0005	<0.0005
6/7/2016				<0.0005		
7/27/2016				<0.0005	<0.0005	<0.0005
8/30/2016	0.0001 (J)					
8/31/2016		<0.0005	<0.0005			
9/16/2016				<0.0005		<0.0005
9/19/2016					<0.0005	
11/3/2016				<0.0005	<0.0005	<0.0005
11/14/2016	0.0001 (J)		<0.0005			
11/15/2016		<0.0005				
1/11/2017				0.0001 (J)	<0.0005	0.0001 (J)
2/24/2017	9E-05 (J)					
2/27/2017			<0.0005			
2/28/2017		<0.0005				
3/1/2017					<0.0005	<0.0005
3/2/2017				<0.0005		
4/26/2017					<0.0005	<0.0005
5/2/2017				<0.0005		
5/8/2017	0.0001 (J)	<0.0005				
5/9/2017			<0.0005			
6/28/2017					<0.0005	<0.0005
6/29/2017				<0.0005		
7/11/2017	<0.0005					
7/13/2017		<0.0005	<0.0005			
10/10/2017	<0.0005	<0.0005	<0.0005			
3/28/2018				<0.0005	<0.0005	<0.0005
4/2/2018	<0.0005					
4/3/2018			<0.0005			
4/4/2018		<0.0005				
6/7/2018					<0.0005	
6/11/2018				<0.0005		<0.0005
9/19/2018	<0.0005	<0.0005	<0.0005			
9/25/2018				<0.0005	<0.0005	<0.0005
3/5/2019				<0.0005		<0.0005
3/6/2019					<0.0005	
4/2/2019				<0.0005		
4/3/2019					<0.0005	<0.0005
8/20/2019	<0.0005	<0.0005	<0.0005			
9/25/2019				<0.0005		
9/26/2019					<0.0005	<0.0005
10/8/2019	<0.0005	<0.0005				
10/9/2019			<0.0005			
2/11/2020				<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005	<0.0005	<0.0005			
3/24/2020				<0.0005	<0.0005	<0.0005
8/27/2020	<0.0005	<0.0005				
8/28/2020			<0.0005			
9/23/2020				<0.0005	<0.0005	<0.0005
2/9/2021					<0.0005	<0.0005
3/3/2021				<0.0005	<0.0005	<0.0005
8/19/2021	<0.0005	<0.0005	<0.0005			
8/26/2021						<0.0005

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/27/2021				<0.0005	<0.0005	
2/8/2022	<0.0005					
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/30/2022				<0.0005	<0.0005	<0.0005
8/31/2022	<0.0005	<0.0005	<0.0005			
2/7/2023				<0.0005	<0.0005	<0.0005
2/8/2023	0.00032 (J)	<0.0005				
2/9/2023			<0.0005			
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.0005	<0.0005
6/7/2016	<0.0005	<0.0005				
7/26/2016					<0.0005	<0.0005
7/27/2016	<0.0005					
7/28/2016		<0.0005				
9/14/2016					<0.0005	<0.0005
9/19/2016	<0.0005	<0.0005				
11/2/2016	<0.0005				<0.0005	<0.0005
11/3/2016		<0.0005				
1/12/2017						<0.0005
1/13/2017	<0.0005	<0.0005			<0.0005	
3/6/2017	<0.0005	<0.0005			<0.0005	
3/7/2017						<0.0005
4/26/2017	<0.0005	<0.0005				
5/1/2017					<0.0005	<0.0005
6/27/2017						<0.0005
6/29/2017	<0.0005	<0.0005			<0.0005	
10/11/2017			<0.0005			
10/12/2017				<0.0005		
11/20/2017			<0.0005	<0.0005		
1/10/2018				<0.0005		
1/11/2018			<0.0005			
2/19/2018				<0.0005		
2/20/2018			<0.0005			
3/29/2018	<0.0005	<0.0005			<0.0005	<0.0005
4/3/2018			<0.0005	<0.0005		
6/5/2018		<0.0005				
6/6/2018	<0.0005					<0.0005
6/7/2018					<0.0005	
6/28/2018			<0.0005	<0.0005		
8/7/2018			<0.0005	<0.0005		
9/24/2018			<0.0005	<0.0005		
9/25/2018	<0.0005	9.6E-05 (J)				
9/26/2018					<0.0005	<0.0005
3/4/2019					<0.0005	<0.0005
3/5/2019	<0.0005	<0.0005				
4/2/2019		<0.0005				
4/3/2019	<0.0005				<0.0005	<0.0005
8/21/2019			<0.0005	<0.0005		
9/24/2019		<0.0005				<0.0005
9/25/2019	<0.0005				<0.0005	
10/9/2019			<0.0005	<0.0005		
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/24/2020	<0.0005	<0.0005		<0.0005		<0.0005
3/25/2020			<0.0005		<0.0005	
9/22/2020					<0.0005	<0.0005
9/24/2020	<0.0005	<0.0005	<0.0005	<0.0005		
2/8/2021						<0.0005
2/9/2021	<0.0005	0.00041 (J)			<0.0005	
2/10/2021			0.00019 (J)	<0.0005		
3/2/2021						<0.0005
3/3/2021	<0.0005				<0.0005	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		<0.0005	0.0003 (J)	<0.0005		
8/26/2021			0.00049 (J)		<0.0005	<0.0005
8/27/2021	<0.0005					
9/1/2021		<0.0005				
9/3/2021				<0.0005		
2/8/2022			0.00063	<0.0005		
2/9/2022	<0.0005	<0.0005				
2/10/2022						<0.0005
2/11/2022					<0.0005	
8/30/2022		<0.0005				<0.0005
8/31/2022	<0.0005		0.00044 (J)	<0.0005	<0.0005	
2/7/2023	<0.0005	0.00012 (J)	0.00014 (J)			<0.0005
2/8/2023				<0.0005		
2/9/2023					<0.0005	
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.0005				
9/11/2007		<0.0005				
3/20/2008		<0.0005				
8/27/2008		<0.0005				
3/3/2009		<0.0005				
11/18/2009		<0.0005				
3/3/2010		<0.0005				
9/8/2010		<0.0005				
3/10/2011		<0.0005				
9/8/2011		<0.0005				
3/5/2012		<0.0005				
9/10/2012		<0.0005				
2/6/2013		<0.0005				
8/12/2013		<0.0005				
2/5/2014		<0.0005				
8/5/2014		<0.0005				
2/4/2015		<0.0005				
8/3/2015		<0.0005				
2/16/2016		<0.0005				
6/1/2016				<0.0005	<0.0005	
6/2/2016	<0.0005		<0.0005			
7/25/2016					<0.0005	
7/26/2016	<0.0005		<0.0005	<0.0005		
8/31/2016		<0.0005				
9/13/2016				<0.0005	<0.0005	
9/14/2016	<0.0005					<0.0005
9/15/2016			<0.0005			
11/1/2016				<0.0005		
11/2/2016			<0.0005			
11/4/2016	<0.0005				<0.0005	<0.0005
11/28/2016		<0.0005				
12/15/2016						<0.0005
1/10/2017			<0.0005			
1/11/2017				0.0002 (J)		
1/12/2017	9E-05 (J)					
1/16/2017					<0.0005	<0.0005
2/22/2017		<0.0005				
3/2/2017				<0.0005	<0.0005	
3/3/2017						<0.0005
3/7/2017	<0.0005					
3/8/2017			7E-05 (J)			
4/26/2017			<0.0005			
4/27/2017				<0.0005	<0.0005	
4/28/2017						<0.0005
5/2/2017	<0.0005					
5/8/2017		<0.0005				
5/26/2017						<0.0005
6/27/2017	<0.0005			<0.0005	<0.0005	
6/28/2017						<0.0005
6/30/2017			<0.0005			
7/17/2017		<0.0005				
10/16/2017		<0.0005				

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.0005				
3/27/2018			<0.0005		<0.0005	
3/28/2018						<0.0005
3/29/2018	<0.0005			<0.0005		
6/7/2018	<0.0005					
8/6/2018		<0.0005				
9/26/2018	<0.0005					
2/25/2019		<0.0005				
2/26/2019			<0.0005			
2/27/2019				<0.0005	<0.0005	<0.0005
3/4/2019	<0.0005					
3/28/2019				<0.0005	<0.0005	
3/29/2019			<0.0005			<0.0005
4/3/2019	<0.0005					
6/12/2019		<0.0005				
8/19/2019		<0.0005				
9/24/2019	<0.0005			<0.0005	<0.0005	<0.0005
9/25/2019			<0.0005			
10/8/2019		<0.0005				
2/10/2020				<0.0005	<0.0005	
2/11/2020						<0.0005
2/12/2020	<0.0005		<0.0005			
3/17/2020		<0.0005				
3/18/2020			<0.0005		<0.0005	
3/19/2020				<0.0005		<0.0005
3/24/2020	<0.0005					
8/26/2020		<0.0005				
9/22/2020	<0.0005	<0.0005				
9/23/2020				<0.0005	<0.0005	<0.0005
9/25/2020			<0.0005			
2/8/2021	<0.0005					
2/10/2021			<0.0005			<0.0005
2/12/2021				<0.0005	<0.0005	
3/2/2021	<0.0005	<0.0005	<0.0005			
3/3/2021				<0.0005	<0.0005	<0.0005
8/19/2021			<0.0005	<0.0005	<0.0005	
8/20/2021		<0.0005				
8/26/2021	<0.0005					
8/27/2021						<0.0005
2/8/2022		<0.0005				
2/9/2022				<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005		<0.0005			
8/30/2022	<0.0005	<0.0005		<0.0005		<0.0005
8/31/2022			<0.0005		<0.0005	
2/7/2023		0.00012 (J)		<0.0005	<0.0005	<0.0005
2/8/2023			<0.0005			
2/9/2023	<0.0005					
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.0005		
6/2/2016	<0.0005	<0.0005			
7/25/2016	<0.0005		<0.0005		
7/26/2016		<0.0005			
9/1/2016				<0.0005	
9/14/2016			<0.0005		
9/15/2016		<0.0005			
9/19/2016	<0.0005				
11/1/2016	<0.0005	<0.0005	<0.0005		
11/16/2016				<0.0005	
1/11/2017		0.0001 (J)	8E-05 (J)		
1/16/2017	<0.0005				
2/21/2017	<0.0005				
2/27/2017				<0.0005	
3/1/2017			<0.0005		
3/2/2017		<0.0005			
4/26/2017	<0.0005	<0.0005	<0.0005		
5/8/2017				0.0001 (J)	
6/28/2017		<0.0005	<0.0005		
6/30/2017	<0.0005				
7/13/2017				<0.0005	
10/11/2017				<0.0005	
3/27/2018	<0.0005				
3/28/2018		<0.0005	<0.0005		
4/4/2018				<0.0005	
9/19/2018				<0.0005	
2/26/2019	<0.0005				
2/27/2019		<0.0005	<0.0005		
4/1/2019	<0.0005	<0.0005	<0.0005		
8/21/2019				0.00012 (J)	
9/25/2019	<0.0005	<0.0005	<0.0005		
10/9/2019				<0.0005	
2/11/2020			<0.0005		
2/12/2020	<0.0005	<0.0005			
3/17/2020				0.00012 (J)	
3/19/2020	<0.0005	<0.0005	<0.0005		
7/6/2020				<0.0005	
8/27/2020					<0.0005
8/28/2020				<0.0005	
9/23/2020		<0.0005	<0.0005		
9/24/2020	<0.0005				
11/12/2020				<0.0005	<0.0005
2/10/2021		<0.0005	<0.0005		
2/11/2021	<0.0005				
3/1/2021	<0.0005				
3/3/2021		<0.0005	<0.0005		
8/19/2021	<0.0005	<0.0005			
8/20/2021					<0.0005
8/27/2021			<0.0005	<0.0005	
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005
2/11/2022	<0.0005				
8/31/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
2/8/2023	<0.0005	<0.0005	0.00013 (J)		
2/10/2023				<0.0005	<0.0005
8/15/2023		<0.0005		<0.0005	<0.0005
8/16/2023	<0.0005		<0.0005		



# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					6.2	1.4
6/7/2016				2.2		
7/27/2016				2	4.73	1.19
8/30/2016	20.9					
8/31/2016		27.3	46.7			
9/16/2016				1.97		1.5
9/19/2016					4.76	
11/3/2016				1.99	5.25	1.31
11/14/2016	18.6		50.6			
11/15/2016		27.8				
1/11/2017				2.28	4.74	1.25
2/24/2017	16.1					
2/27/2017			49.4			
2/28/2017		26.4				
3/1/2017					5.37	1.26
3/2/2017				2.15		
4/26/2017					4.28	1.05
5/2/2017				1.95		
5/8/2017	14.6	29.9				
5/9/2017			56			
6/28/2017					4.95	1.06
6/29/2017				2.02		
7/11/2017	14.3					
7/13/2017		30.2	54.8			
10/4/2017				2.03		1.1
10/5/2017					5.28	
10/10/2017	12.1	27.2	52.8			
4/2/2018	<25					
4/3/2018			50.6			
4/4/2018		30.1				
6/7/2018					4.8	
6/11/2018				2.1		1.4
9/19/2018	11.1 (J)	29.2	50.5			
9/25/2018				2.1	4.6	1
3/27/2019	10.8 (J)	27.9	48.8			
4/2/2019				2.5		
4/3/2019					5.3	1.2
9/25/2019				2.6		
9/26/2019					4.9	1.1
10/8/2019	9.7	28.1				
10/9/2019			47.9			
3/17/2020	14.8	31.9	54.8			
3/24/2020				2.7	5.3	1
9/22/2020	10.1	30.4				
9/23/2020			50	2.6	5.2	0.91 (J)
3/1/2021	10.3	31.9	50.7			
3/3/2021				2.5	5.2	0.96 (J)
8/19/2021	9.6	31.7	50.4			
8/26/2021						0.98 (J)
8/27/2021				2.7	5.1	
2/8/2022	9.4					
2/9/2022		30.8	49.3	2.8	5.1	0.87 (J)

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				3	5.7	0.77 (J)
8/31/2022	9.6	30.8	51.8			
2/7/2023				2.9	5.5	0.79 (J)
2/8/2023	9.2	30.9				
2/9/2023			46.2			
8/15/2023	9.6	30	46.3	2.9	5.1	0.8 (J)

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					8.8	33
6/7/2016	2.3	3.7				
7/26/2016					7.69	32.3
7/27/2016	2.08					
7/28/2016		3.15				
9/14/2016					8.49	31
9/19/2016	1.97	3.17				
11/2/2016	2.13				7.83	30.9
11/3/2016		3.4				
1/12/2017						35.7
1/13/2017	2.45	4.98			8.08	
3/6/2017	2.48	6.28			8.64	
3/7/2017						32.7
4/26/2017	2.3	6.65				
5/1/2017					13.4	37
6/27/2017						36.5
6/29/2017	2.54	6.04			8.81	
10/3/2017		8.28				30.9
10/4/2017	2.25					
10/5/2017					9.29	
10/11/2017			2.74			
10/12/2017				2.9		
11/20/2017			1.81	10.4		
1/10/2018				10.2		
1/11/2018			1.54			
2/19/2018				<25		
2/20/2018			1.71			
4/3/2018			1.4	6.3		
6/5/2018		9.1				
6/6/2018	2.3					26.2
6/7/2018					8.2	
6/28/2018			1.4	6.7		
8/7/2018			1.2	6.3		
9/24/2018			1.1	5.7		
9/25/2018	2.3	10.4 (J)				
9/26/2018					9.5 (J)	25.8
3/26/2019				5.6		
3/27/2019			1.5			
4/2/2019		8.8				
4/3/2019	2.9				8.4	24.7 (J)
9/24/2019		7.7				25.8
9/25/2019	2.4				9.5	
10/9/2019			2.4	4.9		
3/24/2020	2.6	6		4.8		26.1
3/25/2020			2.7		10.5	
9/22/2020					9.6	27.2
9/24/2020	2.6	7.8	3.7	4.4		
3/2/2021						1.6
3/3/2021	2.4				7.7	
3/4/2021		8.7	8.2	4.6		
8/26/2021			14.1		7.6	25.2
8/27/2021	2.4					

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		9.5				
9/3/2021				5.6		
2/8/2022			15.2	6		
2/9/2022	2.3	9.8				
2/10/2022						24.8
2/11/2022					7.5	
8/30/2022		7.3				24.8
8/31/2022	2.4		16.3	6.2	8.9	
2/7/2023	2.4	7.5	16.1			26.6
2/8/2023				5.9		
2/9/2023					9.6	
8/15/2023	2.2	6.1	17.2	5.3	7.8	25

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				12	2.5	
6/2/2016	2.4		1.3			
7/25/2016					2.16	
7/26/2016	2.12		1.24	11		
8/31/2016		9.31				
9/13/2016				11.8	2.21	
9/14/2016	2.18					23.5
9/15/2016			1.17			
11/1/2016				11		
11/2/2016			1.23			
11/4/2016	2.17 (J)				2.67	23.7
11/28/2016		9.47 (B)				
12/15/2016						23.1
1/10/2017			1.24			
1/11/2017				11.2		
1/12/2017	2.37					
1/16/2017					2.45	23.3
2/22/2017		10.4				
3/2/2017				11	2.57	
3/3/2017						25.1
3/7/2017	2.34					
3/8/2017			1.21			
4/26/2017			1.14			
4/27/2017				11.1	2.38	
4/28/2017						30.7
5/2/2017	2.17					
5/8/2017		14.2				
5/26/2017						26.2
6/27/2017	2.13			13.8	2.36	
6/28/2017						26.1
6/30/2017			1.24			
7/17/2017		14.1				
10/3/2017	2.15			14	2.21	26.7
10/5/2017			1.11			
10/16/2017		13.6				
2/19/2018		<25				
6/5/2018				15.2 (J)		
6/6/2018					2.3	
6/7/2018	2.3					25
6/8/2018			1.1			
8/6/2018		11.4 (J)				
9/26/2018	2.3					
10/1/2018			0.99	15.1	1.8	25
2/25/2019		12.7 (J)				
3/28/2019				13.3 (J)	2.2	
3/29/2019			1.1			23.5 (J)
4/3/2019	2.8					
6/12/2019		18.9				
9/24/2019	2.5			15.8	2.3	26.4
9/25/2019			1.1			
10/8/2019		28.3				
3/17/2020		24.3				

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			1.1		2.1	
3/19/2020				15		27.4
3/24/2020	2.5					
9/22/2020	2.6	31				
9/23/2020				14.1	1.8	26.3
9/25/2020			1.3			
3/2/2021	2.6	34.2	1.2			
3/3/2021				14.1	1.8	25.6
8/19/2021			1.2	14.2	2	
8/20/2021		26.5				
8/26/2021	2.5					
8/27/2021						22.6
2/8/2022		25.6				
2/9/2022				14.9	2.1	23.4
2/10/2022	2.5		1.3			
8/30/2022	2.5	23.5		14.9		25.4
8/31/2022			1.3		1.9	
2/7/2023		22.3		15	2.2	25.6
2/8/2023			1.5			
2/9/2023	2.8					
8/15/2023	2.6	20.3	1.3	13.5	1.8	23.2

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			21		
6/2/2016	1.3	28			
7/25/2016	1.17		20.3		
7/26/2016		24.5			
9/1/2016				96.8	
9/14/2016			19.7		
9/15/2016		27			
9/19/2016	1.05				
11/1/2016	1.14	25.6	18.4		
11/16/2016				107	
1/11/2017		27.5	20.3		
1/16/2017	1.23				
2/21/2017	1.25				
2/27/2017				104	
3/1/2017			18.6		
3/2/2017		27.5			
4/26/2017	1.03	30.4	25.6		
5/8/2017				103	
6/28/2017		29.8	23.9		
6/30/2017	1.13				
7/13/2017				83.7	
10/4/2017	1.09	29.7	22.1		
10/11/2017				69	
4/4/2018				51.9	
6/7/2018		29.1			
6/8/2018			21.9 (J)		
6/11/2018	1.1				
9/19/2018				51.9	
10/1/2018		26.9	19.7		
10/2/2018	1.1				
3/27/2019				54.2	
4/1/2019	1.3	30.1	20.4 (J)		
9/25/2019	1.1	29.5	22.4		
10/9/2019				64.2	
3/17/2020				70.4	
3/19/2020	1.2	31.5	21.9		
7/6/2020				105	
8/27/2020					52.3
8/28/2020				102	
9/22/2020					53.5
9/23/2020		28.6	23.6	104	
9/24/2020	1.1				
10/7/2020				105	53.8
11/12/2020				110	53.6
3/1/2021	1.2				50.6
3/2/2021				110	
3/3/2021		29.8	20.6		
8/19/2021	1.2	28.1			
8/20/2021					47.9
8/27/2021			24.7	108	
2/9/2022		30.3	23.7	109	42.2
2/11/2022	1.5				

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	1.3	28.7	23.5	110	41.8
2/8/2023	1.3	28.9	23.3		
2/10/2023				105	36.7
8/15/2023		27.4		111	34.6
8/16/2023	1.4		24.9		



# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					6.8	6.4
6/7/2016				4.5		
7/27/2016				4.5	6.7	6.2
8/30/2016	5.2					
8/31/2016		13	5.8			
9/16/2016				4.5		6.1
9/19/2016					7	
11/3/2016				5.4	7.5	7.4
11/14/2016	6.4		5.8			
11/15/2016		14				
1/11/2017				4.7	6.5	6.1
2/24/2017	5.5					
2/27/2017			5			
2/28/2017		12				
3/1/2017					6.9	6
3/2/2017				4.8		
4/26/2017					7	6.5
5/2/2017				4.6		
5/8/2017	5.8	13				
5/9/2017			4.6			
6/28/2017					7	6.4
6/29/2017				4.5		
7/11/2017	5.8					
7/13/2017		13	4.7			
10/4/2017				4.7		6.8
10/5/2017					7	
10/10/2017	5.9	14	4.5			
4/2/2018	4.8					
4/3/2018			4.6			
4/4/2018		13.4				
6/7/2018					6.8	
6/11/2018				4.9		6.8
9/19/2018	4	14.2	4.7			
9/25/2018				5.6	7.9	7.8
3/27/2019	4.3	14	4.6			
4/2/2019				4.8		
4/3/2019					6.9	6.3
9/25/2019				5.7		
9/26/2019					7	7.1
10/8/2019	4.4	14.8				
10/9/2019			5.1			
3/17/2020	4.1	14	4.6			
3/24/2020				5	7	6.8
9/22/2020	4.2	14.4				
9/23/2020			4.9	6.6	7.2	7.2
3/1/2021	3.7	14	5			
3/3/2021				7.1	7	7.2
8/19/2021	3.5	13	4.1			
8/26/2021						7.3
8/27/2021				8.5	7.4	
2/8/2022	3.2					
2/9/2022		13.5	4.9	10.9	7.5	7

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				12	7.9	7
8/31/2022	3.5	14.5	5.4			
2/7/2023				11.4	7.4	6.4
2/8/2023	3.5	14.9				
2/9/2023			5.9			
8/15/2023	3.5	13.4	5.6	11.6	7.3	6.7

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					3.7	7.2
6/7/2016	1.9	2.8				
7/26/2016					3.6	6.6
7/27/2016	1.9					
7/28/2016		2.6				
9/14/2016					3.4	6.6
9/19/2016	1.9	2.4				
11/2/2016	2.6				4.5	7.6
11/3/2016		2.9				
1/12/2017						6.8
1/13/2017	2.3	2.5			4.2	
3/6/2017	1.9	2.1			3.6	
3/7/2017						6.8
4/26/2017	2	2.1				
5/1/2017					4.3	7.2
6/27/2017						7
6/29/2017	2.6	2.8			4.2	
10/3/2017		2.2				6.5
10/4/2017	2.6					
10/5/2017					4.7	
10/11/2017			2.4			
10/12/2017				3.8		
11/20/2017			1.8	4.4		
1/10/2018				4.6		
1/11/2018			1.6			
2/19/2018				4.6		
2/20/2018			2			
4/3/2018			3.3	5.9		
6/5/2018		1.7				
6/6/2018	2.7					4.7
6/7/2018					4.4	
6/28/2018			2.1	5		
8/7/2018			1.2	4.3		
9/24/2018			1.3	4.9		
9/25/2018	3.6	2.2				
9/26/2018					4.8	4.8
3/26/2019				4.4		
3/27/2019			1.4			
4/2/2019		2.5				
4/3/2019	3.1				4.3	4
9/24/2019		3.1				3.7
9/25/2019	2.8				4.5	
10/9/2019			2.1	5.1		
3/24/2020	2.7	2.8		4.7		3.5
3/25/2020			1.9		3.9	
9/22/2020					4.5	3.6
9/24/2020	2.7	2	2.7	5		
3/2/2021						3.2
3/3/2021	2.7				4.1	
3/4/2021		1.8	4.9	4.9		
8/26/2021			7.2		4.4	3.4
8/27/2021	2.8					

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		1.8				
9/3/2021				5.5		
2/8/2022			7.4	6.2		
2/9/2022	2.8	1.7				
2/10/2022						3.2
2/11/2022					4.1	
8/30/2022		2.4				3.5
8/31/2022	2.9		6.7	6.3	4.4	
2/7/2023	2.9	2.4	5.6			3.3
2/8/2023				6.9		
2/9/2023					4.5	
8/15/2023	2.8	2.3	4.5	5.6	4.4	3.1

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				1.3	1.6	
6/2/2016	4.3		4.1			
7/25/2016					1.4	
7/26/2016	4.4		4	1.2		
8/31/2016		4				
9/13/2016				1.1	1.3	
9/14/2016	3.8					1.1
9/15/2016			4.2			
11/1/2016				1.3		
11/2/2016			4.9			
11/4/2016	4.8				1.6	1.4
11/28/2016		4.2				
12/15/2016						2.9
1/10/2017			4.1			
1/11/2017				1.1		
1/12/2017	3.8					
1/16/2017					1.4	0.98
2/22/2017		3.7				
3/2/2017				1	1.3	
3/3/2017						1.1
3/7/2017	4.5					
3/8/2017			4.2			
4/26/2017			4.1			
4/27/2017				1	1.3	
4/28/2017						0.91
5/2/2017	4.6					
5/8/2017		4.2				
5/26/2017						0.93
6/27/2017	4.3			1.1	1.4	
6/28/2017						1
6/30/2017			3.7			
7/17/2017		3.8				
10/3/2017	4.2			1.1	1.7	1.2
10/5/2017			3.8			
10/16/2017		4.2				
2/19/2018		4.3				
6/5/2018				1.1		
6/6/2018					1.4	
6/7/2018	4.5					1
6/8/2018			3.4			
8/6/2018		3.8				
9/26/2018	5.1					
10/1/2018			3.8	1.1	1.4	1.1
2/25/2019		4.1				
3/28/2019				1.4	1.5	
3/29/2019			4.2			1.2
4/3/2019	4.2					
6/12/2019		4.7				
9/24/2019	4.5			1.1	1.3	0.95 (J)
9/25/2019			4.8			
10/8/2019		5.1				
3/17/2020		4.8				

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			5.2		1.4	
3/19/2020				1.1		0.97 (J)
3/24/2020	4.3					
9/22/2020	4.2	4.2				
9/23/2020				0.99 (J)	1.2	0.88 (J)
9/25/2020			5.3			
3/2/2021	4.3	4.1	4.9			
3/3/2021				0.96 (J)	1.2	0.86 (J)
8/19/2021			5	1.1	1.3	
8/20/2021		5.2				
8/26/2021	4.3					
8/27/2021						0.99 (J)
2/8/2022		5.7				
2/9/2022				1	1.3	1 (J)
2/10/2022	4.4		4.7			
8/30/2022	4.4	6.3		1.3		1.2
8/31/2022			4.6		1.5	
2/7/2023		6.1		1.3	1.5	1.1
2/8/2023			4.9			
2/9/2023	5					
8/15/2023	4.1	5.6	4.1	1.1	1.4	0.93 (J)

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			1.3		
6/2/2016	1.9	1.4			
7/25/2016	1.7		1.3		
7/26/2016		1.6			
9/1/2016				37	
9/14/2016			1.3		
9/15/2016		1.5			
9/19/2016	1.6				
11/1/2016	1.8	1.7	1.4		
11/16/2016				37	
1/11/2017		1.2	1.1		
1/16/2017	1.7				
2/21/2017	1.7				
2/27/2017				33	
3/1/2017			1.1		
3/2/2017		1.2			
4/26/2017	1.7	1.2	1.1		
5/8/2017				33	
6/28/2017		1.3	1.2		
6/30/2017	1.8				
7/13/2017				32	
10/4/2017	1.8	1.5	1.2		
10/11/2017				29	
4/4/2018				26.6	
6/7/2018		1.2			
6/8/2018			1.2		
6/11/2018	2				
9/19/2018				26.5	
10/1/2018		1.5	1.2		
10/2/2018	1.8				
3/27/2019				20.9	
4/1/2019	1.7	1.2	1.1		
9/25/2019	1.6	1.1	1.1		
10/9/2019				25	
3/17/2020				24.8	
3/19/2020	1.8	1.2	1.1		
7/6/2020				25.8	
8/27/2020					3.9
8/28/2020				25.9	
9/22/2020					4.1
9/23/2020		1.1	1	28.1	
9/24/2020	1.5				
10/7/2020				28.2	4
11/12/2020				26.7	3.8
3/1/2021	1.6				3.7
3/2/2021				27.4	
3/3/2021		1.1	0.99 (J)		
8/19/2021	1.6	1.1			
8/20/2021					3.1
8/27/2021			1.1	29.3	
2/9/2022		1.1	1.1	28.2	3.2
2/11/2022	2.1				

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	1.8	1.3	1.3	29.9	3.4
2/8/2023	1.6	1.2	1.1		
2/10/2023				33.5	3.3
8/15/2023		1.1		32.2	3
8/16/2023	1.5		1.1		



# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					0.0012 (J)	<0.005
6/7/2016				<0.005		
7/27/2016				0.0008 (J)	0.0007 (J)	0.0006 (J)
8/30/2016	<0.005					
8/31/2016		<0.005	<0.005			
9/16/2016				<0.005		<0.005
9/19/2016					<0.005	
11/3/2016				<0.005	<0.005	<0.005
11/14/2016	0.0093 (J)		0.0061 (J)			
11/15/2016		<0.005				
1/11/2017				<0.005	<0.005	<0.005
2/24/2017	<0.005					
2/27/2017			<0.005			
2/28/2017		<0.005				
3/1/2017					0.0012 (J)	<0.005
3/2/2017				0.001 (J)		
4/26/2017					0.0005 (J)	0.0003 (J)
5/2/2017				0.0007 (J)		
5/8/2017	<0.005	<0.005				
5/9/2017			<0.005			
6/28/2017					0.0006 (J)	<0.005
6/29/2017				0.0006 (J)		
7/11/2017	<0.005					
7/13/2017		<0.005	0.0006 (J)			
10/10/2017	<0.005	<0.005	<0.005			
3/28/2018				<0.005	<0.005	<0.005
4/2/2018	<0.005					
4/3/2018			<0.005			
4/4/2018		<0.005				
9/19/2018	<0.005	<0.005	<0.005			
3/5/2019				<0.005		<0.005
3/6/2019					<0.005	
8/20/2019	<0.005	<0.005	<0.005			
2/11/2020				0.00087 (J)	0.001 (J)	0.00088 (J)
3/24/2020				0.00087 (J)	0.00095 (J)	0.0011 (J)
8/27/2020	<0.005	<0.005				
8/28/2020			<0.005			
9/22/2020	<0.005	<0.005				
9/23/2020			0.00058 (J)	0.00098 (J)	0.00092 (J)	0.0012 (J)
2/9/2021					0.00083 (J)	0.0013 (J)
3/1/2021	<0.005	<0.005	<0.005			
3/3/2021				0.00082 (J)	0.00087 (J)	0.001 (J)
8/19/2021	<0.005	<0.005	<0.005			
8/26/2021						<0.005
8/27/2021				<0.005	<0.005	
2/8/2022	<0.005					
2/9/2022		<0.005	<0.005	<0.005	<0.005	0.0014 (J)
8/30/2022				<0.005	<0.005	0.0015 (J)
8/31/2022	<0.005	<0.005	<0.005			
2/7/2023				<0.005	<0.005	0.0016 (J)
2/8/2023	<0.005	<0.005				
2/9/2023			<0.005			

# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	0.0013 (J)

# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.005	<0.005
6/7/2016	<0.005	<0.005				
7/26/2016					<0.005	<0.005
7/27/2016	0.0005 (J)					
7/28/2016		<0.005				
9/14/2016					<0.005	<0.005
9/19/2016	<0.005	<0.005				
11/2/2016	<0.005				<0.005	<0.005
11/3/2016		<0.005				
1/12/2017						<0.005
1/13/2017	<0.005	<0.005			<0.005	
3/6/2017	<0.005	<0.005			<0.005	
3/7/2017						<0.005
4/26/2017	0.0007 (J)	<0.005				
5/1/2017					<0.005	0.0004 (J)
6/27/2017						<0.005
6/29/2017	0.0005 (J)	<0.005			<0.005	
10/11/2017			<0.005			
10/12/2017				<0.005		
11/20/2017			<0.005	<0.005		
1/10/2018				<0.005		
1/11/2018			<0.005			
2/19/2018				<0.005		
2/20/2018			<0.005			
3/29/2018	<0.005	<0.005			<0.005	<0.005
4/3/2018			<0.005	<0.005		
6/28/2018			<0.005	<0.005		
8/7/2018			<0.005	<0.005		
9/24/2018			<0.005	<0.005		
3/4/2019					<0.005	<0.005
3/5/2019	<0.005	<0.005				
8/21/2019			<0.005	0.00053 (J)		
10/9/2019			<0.005	0.0012 (J)		
2/12/2020	0.00045 (J)	<0.005	<0.005	0.00065 (J)	<0.005	<0.005
3/24/2020	0.00077 (J)	<0.005		0.00055 (J)		<0.005
3/25/2020			<0.005		0.00058 (J)	
9/22/2020					<0.005	0.0011 (J)
9/24/2020	0.00076 (J)	<0.005	<0.005	<0.005		
2/8/2021						<0.005
2/9/2021	0.00056 (J)	<0.005			<0.005	
2/10/2021			<0.005	<0.005		
3/2/2021						<0.005
3/3/2021	<0.005				0.0013 (J)	
3/4/2021		<0.005	<0.005	<0.005		
8/26/2021			<0.005		<0.005	<0.005
8/27/2021	<0.005					
9/1/2021		<0.005				
9/3/2021				<0.005		
2/8/2022			<0.005	<0.005		
2/9/2022	<0.005	<0.005				
2/10/2022						<0.005
2/11/2022					<0.005	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
8/30/2022		<0.005				<0.005
8/31/2022	<0.005		<0.005	<0.005	<0.005	
2/7/2023	<0.005	<0.005	<0.005			<0.005
2/8/2023				<0.005		
2/9/2023					<0.005	
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		0.0029				
9/11/2007		0.0084				
3/20/2008		0.0027				
8/27/2008		0.0026				
3/3/2009		0.0022				
11/18/2009		0.0036				
3/3/2010		<0.005				
9/8/2010		<0.005				
3/10/2011		<0.005				
9/8/2011		<0.005				
3/5/2012		<0.005				
9/10/2012		<0.005				
2/6/2013		<0.005				
8/12/2013		<0.005				
2/5/2014		0.0059				
8/5/2014		<0.005				
2/4/2015		<0.005				
8/3/2015		0.0011 (J)				
2/16/2016		<0.005				
6/1/2016				0.0035	<0.005	
6/2/2016	<0.005		<0.005			
7/25/2016					<0.005	
7/26/2016	<0.005		<0.005	<0.005		
8/31/2016		<0.005				
9/13/2016				<0.005	<0.005	
9/14/2016	<0.005					<0.005
9/15/2016			<0.005			
11/1/2016			<0.005	<0.005		
11/2/2016			<0.005			
11/4/2016	<0.005				<0.005	<0.005
11/28/2016		<0.005				
12/15/2016						<0.005
1/10/2017			<0.005			
1/11/2017				<0.005		
1/12/2017	<0.005					
1/16/2017					<0.005	<0.005
2/22/2017		<0.005				
3/2/2017				0.0009 (J)	0.0004 (J)	
3/3/2017						0.0005 (J)
3/7/2017	<0.005					
3/8/2017			<0.005			
4/26/2017			<0.005			
4/27/2017				<0.005	<0.005	
4/28/2017						0.0004 (J)
5/2/2017	<0.005					
5/8/2017		<0.005				
5/26/2017						<0.005
6/27/2017	<0.005			<0.005	<0.005	
6/28/2017						<0.005
6/30/2017			<0.005			
7/17/2017		<0.005				
10/16/2017		<0.005				

# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.005				
3/27/2018			<0.005		<0.005	
3/28/2018						<0.005
3/29/2018	<0.005			<0.005		
8/6/2018		<0.005				
2/25/2019		<0.005				
2/26/2019			<0.005			
2/27/2019				<0.005	<0.005	<0.005
3/4/2019	<0.005					
3/28/2019				<0.005	0.0021 (J)	
3/29/2019			<0.005			<0.005
6/12/2019		<0.005				
8/19/2019		<0.005				
9/24/2019				0.00072 (J)	0.0028 (J)	<0.005
9/25/2019			<0.005			
10/8/2019		<0.005				
2/10/2020				0.00042 (J)	<0.005	
2/11/2020						<0.005
2/12/2020	0.00043 (J)		<0.005			
3/17/2020		<0.005				
3/18/2020			<0.005		0.00044 (J)	
3/19/2020				0.00084 (J)		0.00048 (J)
3/24/2020	0.0014 (J)					
8/26/2020		<0.005				
9/22/2020	<0.005	<0.005				
9/23/2020				0.00062 (J)	0.00058 (J)	<0.005
9/25/2020			<0.005			
2/8/2021	<0.005					
2/10/2021			<0.005			<0.005
2/12/2021				<0.005	<0.005	
3/2/2021	<0.005	<0.005	<0.005			
3/3/2021				<0.005	<0.005	<0.005
8/19/2021			<0.005	<0.005	<0.005	
8/20/2021		<0.005				
8/26/2021	<0.005					
8/27/2021						<0.005
2/8/2022		<0.005				
2/9/2022				<0.005	<0.005	<0.005
2/10/2022	<0.005		<0.005			
8/30/2022	<0.005	<0.005		0.0011 (J)		<0.005
8/31/2022			<0.005		<0.005	
2/7/2023		<0.005		<0.005	0.0013 (J)	<0.005
2/8/2023			<0.005			
2/9/2023	0.0012 (J)					
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.005		
6/2/2016	<0.005	0.0013 (J)			
7/25/2016	<0.005		<0.005		
7/26/2016		<0.005			
9/1/2016				<0.005	
9/14/2016			<0.005		
9/15/2016		<0.005			
9/19/2016	<0.005				
11/1/2016	<0.005	<0.005	<0.005		
11/16/2016				<0.005	
1/11/2017		<0.005	<0.005		
1/16/2017	<0.005				
2/21/2017	<0.005				
2/27/2017				<0.005	
3/1/2017			0.0004 (J)		
3/2/2017		0.0006 (J)			
4/26/2017	0.0016 (J)	<0.005	<0.005		
5/8/2017				<0.005	
6/28/2017		<0.005	<0.005		
6/30/2017	<0.005				
7/13/2017				<0.005	
10/11/2017				<0.005	
3/27/2018	<0.005				
3/28/2018		<0.005	<0.005		
4/4/2018				<0.005	
9/19/2018				<0.005	
2/26/2019	<0.005				
2/27/2019		<0.005	<0.005		
4/1/2019	<0.005	<0.005	<0.005		
8/21/2019				<0.005	
9/25/2019	<0.005	0.0014 (J)	0.0019 (J)		
2/11/2020			<0.005		
2/12/2020	<0.005	<0.005			
3/19/2020	<0.005	<0.005	<0.005		
7/6/2020				<0.005	
8/27/2020					<0.005
8/28/2020				<0.005	
9/22/2020					0.00073 (J)
9/23/2020		<0.005	<0.005	<0.005	
9/24/2020	<0.005				
10/7/2020				<0.005	0.00086 (J)
11/12/2020				<0.005	<0.005
2/10/2021		<0.005	<0.005		
2/11/2021	<0.005				
3/1/2021	<0.005				0.00094 (J)
3/2/2021				<0.005	
3/3/2021		<0.005	<0.005		
8/19/2021	<0.005	<0.005			
8/20/2021					<0.005
8/27/2021			<0.005	<0.005	
2/9/2022		<0.005	<0.005	<0.005	0.0012 (J)
2/11/2022	<0.005				

# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023	0.0021 (J)	<0.005	<0.005		
2/10/2023				<0.005	0.0021 (J)
8/15/2023		<0.005		<0.005	<0.005
8/16/2023	<0.005		<0.005		



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.005	0.00061 (J)
6/7/2016				<0.005		
7/27/2016				<0.005	<0.005	0.0004 (J)
8/30/2016	0.0073 (J)					
8/31/2016		0.0119	0.0009 (J)			
9/16/2016				<0.005		0.0008 (J)
9/19/2016					<0.005	
11/3/2016				<0.005	<0.005	<0.005
11/14/2016	0.0115		0.0009 (J)			
11/15/2016		0.0033 (J)				
1/11/2017				<0.005	<0.005	<0.005
2/24/2017	0.0106					
2/27/2017			0.001 (J)			
2/28/2017		0.0017 (J)				
3/1/2017					<0.005	<0.005
3/2/2017				<0.005		
4/26/2017					<0.005	<0.005
5/2/2017				<0.005		
5/8/2017	0.0099 (J)	0.0018 (J)				
5/9/2017			0.0008 (J)			
6/28/2017					<0.005	<0.005
6/29/2017				<0.005		
7/11/2017	0.0096 (J)					
7/13/2017		0.0022 (J)	0.0009 (J)			
10/10/2017	0.0036 (J)	0.0017 (J)	0.0008 (J)			
3/28/2018				<0.005	<0.005	<0.005
4/2/2018	<0.005					
4/3/2018			<0.01 (O)			
4/4/2018		<0.005				
6/7/2018					<0.005	
6/11/2018				<0.005		<0.005
9/19/2018	0.0036 (J)	0.0025 (J)	0.00081 (J)			
9/25/2018				<0.005	<0.005	<0.005
3/5/2019				<0.005		<0.005
3/6/2019					<0.005	
4/2/2019				<0.005		
4/3/2019					<0.005	<0.005
8/20/2019	0.00092 (J)	0.002 (J)	0.00071 (J)			
9/25/2019				<0.005		
9/26/2019					<0.005	<0.005
10/8/2019	0.0014 (J)	0.0017 (J)				
10/9/2019			0.0007 (J)			
2/11/2020				<0.005	<0.005	<0.005
3/17/2020	0.0017 (J)	0.004 (J)	0.00081 (J)			
3/24/2020				<0.005	<0.005	<0.005
8/27/2020	0.0011 (J)	0.003 (J)				
8/28/2020			0.00055 (J)			
9/22/2020	0.00097 (J)	0.0065				
9/23/2020			0.00053 (J)	<0.005	<0.005	<0.005
2/9/2021					<0.005	<0.005
3/1/2021	0.001 (J)	0.0033 (J)	0.00062 (J)			
3/3/2021				<0.005	<0.005	<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/19/2021	0.00099 (J)	0.0014 (J)	0.00048 (J)			
8/26/2021						<0.005
8/27/2021				<0.005	<0.005	
2/8/2022	0.0013 (J)					
2/9/2022		0.0027 (J)	0.00051 (J)	<0.005	<0.005	<0.005
8/30/2022				<0.005	<0.005	<0.005
8/31/2022	0.00096 (J)	0.00099 (J)	0.00069 (J)			
2/7/2023				<0.005	<0.005	<0.005
2/8/2023	0.0011 (J)	0.0014 (J)				
2/9/2023			0.00077 (J)			
8/15/2023	0.00072 (J)	0.00084 (J)	0.00053 (J)	<0.005	<0.005	<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					0.00082 (J)	<0.005
6/7/2016	<0.005	0.0056				
7/26/2016					0.0012 (J)	<0.005
7/27/2016	<0.005					
7/28/2016		0.0032 (J)				
9/14/2016					0.0006 (J)	<0.005
9/19/2016	<0.005	0.0047 (J)				
11/2/2016	<0.005				<0.005	<0.005
11/3/2016		0.013				
1/12/2017						<0.005
1/13/2017	<0.005	0.011			0.0029 (J)	
3/6/2017	<0.005	0.011			0.0006 (J)	
3/7/2017						<0.005
4/26/2017	<0.005	0.009 (J)				
5/1/2017					<0.005	<0.005
6/27/2017						<0.005
6/29/2017	<0.005	0.0093 (J)			0.0005 (J)	
10/11/2017			<0.005			
10/12/2017				<0.005		
11/20/2017			<0.005	<0.005		
1/10/2018				<0.005		
1/11/2018			<0.005			
2/19/2018				<0.005		
2/20/2018			<0.005			
3/29/2018	<0.005	<0.005			<0.005	<0.005
4/3/2018			<0.005	<0.005		
6/5/2018		0.0041 (J)				
6/6/2018	<0.005					<0.005
6/7/2018					0.00058 (J)	
6/28/2018			<0.005	<0.005		
8/7/2018			<0.005	<0.005		
9/24/2018			<0.005	<0.005		
9/25/2018	<0.005	0.0044 (J)				
9/26/2018					<0.005	<0.005
3/4/2019					<0.005	<0.005
3/5/2019	<0.005	0.0039 (J)				
4/2/2019		0.0039 (J)				
4/3/2019	<0.005				0.00083 (J)	<0.005
8/21/2019			0.00034 (J)	<0.005		
9/24/2019		0.0032 (J)				<0.005
9/25/2019	<0.005				<0.005	
10/9/2019			<0.005	<0.005		
2/12/2020	<0.005	0.0081	0.00034 (J)	<0.005	<0.005	0.00037 (J)
3/24/2020	<0.005	0.0061		<0.005		0.00035 (J)
3/25/2020			0.00034 (J)		0.00056 (J)	
9/22/2020					<0.005	<0.005
9/24/2020	<0.005	0.0079	0.00053 (J)	<0.005		
2/8/2021						<0.005
2/9/2021	<0.005	0.009			<0.005	
2/10/2021			0.00098 (J)	<0.005		
3/2/2021						<0.005
3/3/2021	<0.005				<0.005	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		0.0065	0.00071 (J)	<0.005		
8/26/2021			0.0011 (J)		0.00042 (J)	<0.005
8/27/2021	<0.005					
9/1/2021		0.0068				
9/3/2021				<0.005		
2/8/2022			0.0012 (J)	<0.005		
2/9/2022	<0.005	0.0078				
2/10/2022						<0.005
2/11/2022					<0.005	
8/30/2022		0.0066				<0.005
8/31/2022	<0.005		0.00085 (J)	<0.005	<0.005	
2/7/2023	<0.005	0.014	0.00066 (J)			<0.005
2/8/2023				<0.005		
2/9/2023					<0.005	
8/15/2023	<0.005	0.011	0.00072 (J)	<0.005	<0.005	<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		0.0067				
9/11/2007		<0.005				
3/20/2008		<0.005				
8/27/2008		<0.005				
3/3/2009		<0.005				
11/18/2009		<0.005				
3/3/2010		0.0027				
9/8/2010		0.007				
3/10/2011		<0.005				
9/8/2011		<0.005				
3/5/2012		0.0032				
9/10/2012		<0.005				
2/6/2013		<0.005				
8/12/2013		0.0045				
2/5/2014		<0.005				
8/5/2014		0.0027				
2/4/2015		0.0016				
8/3/2015		0.002				
2/16/2016		0.0027				
6/1/2016				<0.005	0.00082 (J)	
6/2/2016	<0.005		<0.005			
7/25/2016					0.0008 (J)	
7/26/2016	<0.005		<0.005	<0.005		
8/31/2016		0.0053 (J)				
9/13/2016				<0.005	0.0009 (J)	
9/14/2016	<0.005					<0.005
9/15/2016			<0.005			
11/1/2016				<0.005		
11/2/2016			<0.005			
11/4/2016	<0.005				0.0025 (J)	<0.005
11/28/2016		0.0036 (J)				
12/15/2016						<0.005
1/10/2017			<0.005			
1/11/2017				<0.005		
1/12/2017	<0.005					
1/16/2017					0.0027 (J)	<0.005
2/22/2017		0.0049 (J)				
3/2/2017				<0.005	0.0022 (J)	
3/3/2017						<0.005
3/7/2017	<0.005					
3/8/2017			<0.005			
4/26/2017			<0.005			
4/27/2017				<0.005	0.0018 (J)	
4/28/2017						<0.005
5/2/2017	<0.005					
5/8/2017		0.0059 (J)				
5/26/2017						<0.005
6/27/2017	<0.005			<0.005	0.0023 (J)	
6/28/2017						<0.005
6/30/2017			<0.005			
7/17/2017		0.0046 (J)				
10/16/2017		0.0034 (J)				

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.005				
3/27/2018			<0.005		<0.005	
3/28/2018						<0.005
3/29/2018	<0.005			<0.005		
6/5/2018				<0.005		
6/6/2018					<0.005	
6/7/2018	<0.005					<0.005
6/8/2018			<0.005			
8/6/2018		0.003 (J)				
9/26/2018	<0.005					
10/1/2018			<0.005	<0.005	0.00059 (J)	<0.005
2/25/2019		0.001 (J)				
2/26/2019			<0.005			
2/27/2019				<0.005	0.00064 (J)	<0.005
3/4/2019	<0.005					
3/28/2019				<0.005	0.00091 (J)	
3/29/2019			<0.005			<0.005
4/3/2019	<0.005					
6/12/2019		0.003 (J)				
8/19/2019		0.0035 (J)				
9/24/2019	<0.005			<0.005	0.0013 (J)	<0.005
9/25/2019			<0.005			
10/8/2019		0.0039 (J)				
2/10/2020				<0.005	0.0016 (J)	
2/11/2020						<0.005
2/12/2020	<0.005		<0.005			
3/17/2020		0.003 (J)				
3/18/2020			<0.005		0.00087 (J)	
3/19/2020				<0.005		<0.005
3/24/2020	<0.005					
8/26/2020		0.2 (O)				
9/22/2020	<0.005	0.16 (O)				
9/23/2020				<0.005	0.0013 (J)	<0.005
9/25/2020			<0.005			
2/8/2021	<0.005					
2/10/2021			<0.005			<0.005
2/12/2021				0.00086 (J)	0.0028 (J)	
3/2/2021	<0.005	0.21 (O)	<0.005			
3/3/2021				<0.005	0.003 (J)	<0.005
8/19/2021			<0.005	0.00055 (J)	0.0017 (J)	
8/20/2021		0.074 (O)				
8/26/2021	<0.005					
8/27/2021						<0.005
2/8/2022		0.072 (O)				
2/9/2022				0.00072 (J)	0.0023 (J)	<0.005
2/10/2022	<0.005		<0.005			
8/30/2022	<0.005	0.075 (O)		<0.005		<0.005
8/31/2022			<0.005		0.00085 (J)	
2/7/2023		0.034		0.00097 (J)	0.0048 (J)	<0.005
2/8/2023			<0.005			
2/9/2023	<0.005					
8/15/2023	<0.005	0.031	<0.005	<0.005	0.00072 (J)	<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.005		
6/2/2016	0.035	<0.005			
7/25/2016	0.0312		<0.005		
7/26/2016		<0.005			
9/1/2016				0.0171	
9/14/2016			<0.005		
9/15/2016		<0.005			
9/19/2016	0.0275				
11/1/2016	0.0255	<0.005	<0.005		
11/16/2016				0.0145	
1/11/2017		<0.005	<0.005		
1/16/2017	0.0245				
2/21/2017	0.0272				
2/27/2017				0.0161	
3/1/2017			<0.005		
3/2/2017		<0.005			
4/26/2017	0.0244	<0.005	<0.005		
5/8/2017				0.0367	
6/28/2017		<0.005	<0.005		
6/30/2017	0.0233				
7/13/2017				0.0265	
10/11/2017				0.0556	
3/27/2018	0.023				
3/28/2018		<0.005	<0.005		
4/4/2018				0.025	
6/7/2018		<0.005			
6/8/2018			<0.005		
6/11/2018	0.023				
9/19/2018				0.042	
10/1/2018		<0.005	<0.005		
10/2/2018	0.022				
2/26/2019	0.021				
2/27/2019		<0.005	<0.005		
4/1/2019	0.022	<0.005	<0.005		
8/21/2019				0.027	
9/25/2019	0.016	<0.005	<0.005		
10/9/2019				0.024	
2/11/2020			<0.005		
2/12/2020	0.014	<0.005			
3/17/2020				0.022	
3/19/2020	0.014	<0.005	<0.005		
7/6/2020				0.0041 (J)	
8/27/2020					0.0022 (J)
8/28/2020				0.0038 (J)	
9/22/2020					0.0019 (J)
9/23/2020		<0.005	<0.005	0.0015 (J)	
9/24/2020	0.0064				
10/7/2020				0.0014 (J)	0.0019 (J)
11/12/2020				0.001 (J)	0.0015 (J)
2/10/2021		<0.005	<0.005		
2/11/2021	0.0078				
3/1/2021	0.0061				0.0013 (J)

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.00096 (J)	
3/3/2021		<0.005	<0.005		
8/19/2021	0.0052	<0.005			
8/20/2021					0.0013 (J)
8/27/2021			<0.005	0.00056 (J)	
2/9/2022		<0.005	<0.005	0.0006 (J)	0.0015 (J)
2/11/2022	0.0038 (J)				
8/31/2022	0.004 (J)	<0.005	<0.005	0.0017 (J)	0.00096 (J)
2/8/2023	0.0031 (J)	<0.005	<0.005		
2/10/2023				0.0016 (J)	0.00055 (J)
8/15/2023		<0.005		0.0012 (J)	0.0017 (J)
8/16/2023	0.0028 (J)		<0.005		



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					0.0804 (U)	0.301 (U)
6/7/2016				0.158 (U)		
7/27/2016				0.0354 (U)	0.206 (U)	0.196 (U)
8/30/2016	1.09					
8/31/2016		2.15	1.65			
9/16/2016				1.04		0.915 (U)
9/19/2016					1.58	
11/3/2016				0.314 (U)	0.342 (U)	0.928 (U)
11/14/2016			0.981 (U)			
11/15/2016		0.676 (U)				
12/15/2016	1 (U)					
1/11/2017				0.34 (U)	0.365 (U)	0.502 (U)
2/24/2017	0.504 (U)					
2/27/2017			0.528 (U)			
2/28/2017		0.241 (U)				
3/1/2017					0.395 (U)	0.202 (U)
3/2/2017				0.746 (U)		
4/26/2017					0.507 (U)	0.264 (U)
5/2/2017				0.111 (U)		
5/8/2017	0.455 (U)	0.508 (U)				
5/9/2017			1.4			
6/28/2017					0.892	0.636 (U)
6/29/2017				0.576 (U)		
7/11/2017	0.471 (U)					
7/13/2017		0.77 (U)	0.611 (U)			
10/10/2017	0.649 (U)	1.43	1.47			
3/28/2018				0.438 (U)	0.92 (U)	0.56 (U)
4/2/2018	0.512 (U)					
4/3/2018			1.53			
4/4/2018		0.325 (U)				
6/7/2018					0.668 (U)	
6/11/2018				0.901 (U)		0.649 (U)
9/19/2018	0.789 (U)	0.386 (U)	0.839 (U)			
9/25/2018				0.68 (U)	0.141 (U)	0.574 (U)
3/5/2019				0.272 (U)		0.474 (U)
3/6/2019					0.714 (U)	
4/2/2019				0.847 (U)		
4/3/2019					0.385 (U)	0.429 (U)
8/20/2019	2.44	1.71	2.23			
9/25/2019				0.412 (U)		
9/26/2019					0.386 (U)	0.222 (U)
10/8/2019	1.72	0.769 (U)				
10/9/2019			1.61			
2/11/2020				0.461 (U)	1.48	0.597 (U)
3/17/2020	1.22 (U)	1.37	1.44			
3/24/2020				0.534 (U)	0.632 (U)	0.262 (U)
8/27/2020	1.26 (U)	0.0859 (U)				
8/28/2020			0.983 (U)			
9/22/2020	1.06 (U)	0.327 (U)				
9/23/2020			0.746 (U)	0.466 (U)	0.887 (U)	0.43 (U)
2/9/2021				0.529 (U)	0.314 (U)	0.259 (U)
3/1/2021	1.2	0.0694 (U)	1.28			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
3/3/2021				0.59 (U)	0.565 (U)	0.352 (U)
8/19/2021	1.07 (U)	0.261 (U)	1.38			
8/26/2021						0.686 (U)
8/27/2021				0.9 (U)	0.761 (U)	
2/8/2022	0.4 (U)					
2/9/2022		0.332 (U)	1.11	0.133 (U)	0.571 (U)	0.0618 (U)
8/30/2022				1.08	1.01	0.611 (U)
8/31/2022	0.714 (U)	0.145 (U)	0.598 (U)			
2/7/2023				0.367 (U)	0.485 (U)	0.656 (U)
2/8/2023	0.375 (U)	0.193 (U)				
2/9/2023			1.29			
8/15/2023	0.947 (U)	1.15	1.34	0.0388 (U)	0.655 (U)	0.347 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					0.721	5.11
6/7/2016	0.0191 (U)	0.347				
7/26/2016					1.26	6.92
7/27/2016	0.541 (U)					
7/28/2016		0.815 (U)				
9/14/2016					0.901 (U)	3.96
9/19/2016	0.826 (U)	0.862 (U)				
11/2/2016	0.791 (U)				1.09 (U)	4.53
11/3/2016		0.797 (U)				
1/12/2017						4.43
1/13/2017	0.296 (U)	0.72 (U)			1.19	
3/6/2017	0.518 (U)	0.518 (U)			0.669 (U)	
3/7/2017						4.8
4/26/2017	0.282 (U)	1.13 (U)				
5/1/2017					0.803 (U)	4.16
6/27/2017						2.8
6/29/2017	1.12	0.841 (U)			1.35	
10/11/2017			0.586 (U)			
10/12/2017				1.49		
11/20/2017			0.816 (U)	0.918 (U)		
1/10/2018				1.05		
1/11/2018			0.841 (U)			
2/19/2018				2.05		
2/20/2018			1.58			
3/29/2018	1.73	1.91			0.703 (U)	3.42
4/3/2018			0.385 (U)	0.68 (U)		
6/5/2018		1.39				
6/6/2018	0.694 (U)					3.99
6/7/2018					0.628 (U)	
6/28/2018			0.283 (U)	1.28		
8/7/2018			0.332 (U)	1.16		
9/24/2018			0.767 (U)	0.965 (U)		
9/25/2018	0.772 (U)	1.62				
9/26/2018					0.756 (U)	2.73
3/4/2019					1.21 (U)	4.43
3/5/2019	0.84 (U)	0.985 (U)				
4/2/2019		1.42				
4/3/2019	1.01				1.07 (U)	4.79
8/21/2019			1.01 (U)	1.24 (U)		
9/24/2019		1.35				4.06
9/25/2019	1.18 (U)				1.86	
10/8/2019			1.02 (U)	0.866 (U)		
2/12/2020	1.11 (U)	1.61	0.45 (U)	1.83	1.25	4.02
3/24/2020	1.88	1.24 (U)		1.27 (U)		3.52
3/25/2020			0.377 (U)		0.766 (U)	
9/22/2020					0.795 (U)	2.98
9/24/2020	0.611 (U)	1.8	0.568 (U)	0.634 (U)		
2/8/2021						2.89
2/9/2021	0.284 (U)	1.24			0.626 (U)	
2/10/2021			0.518 (U)	0.783 (U)		
3/2/2021						1.67
3/3/2021	0.133 (U)	1.2			1	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021			0.636 (U)	0.818 (U)		
8/26/2021			0.674 (U)		1.17 (U)	4.68
8/27/2021	0.779 (U)					
9/1/2021		1.86				
9/3/2021				0.971 (U)		
2/8/2022			0.834	0.534 (U)		
2/9/2022	0.504 (U)	1.94				
2/10/2022						3.33
2/11/2022					0.996	
8/30/2022		1.27				5.34
8/31/2022	0.184 (U)		0.937	0.513 (U)	0.962	
2/7/2023	0.794 (U)	1.53	1.41			3.99
2/8/2023				1.56		
2/9/2023					1.12	
8/15/2023	0.165 (U)	1.68	0.608 (U)	0.325 (U)	1.14	3.44

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				0.321 (U)	0.42	
6/2/2016	0.614		0.329 (U)			
7/25/2016					1.83	
7/26/2016	1.47		1.51	0.707 (U)		
8/31/2016		1.2				
9/13/2016				1.22	0.841	
9/14/2016	1.27					0.98 (U)
9/15/2016			1.04 (U)			
11/1/2016				0.805 (U)		
11/2/2016			0.496 (U)			
11/4/2016	0.434 (U)				0.166 (U)	0.277 (U)
11/28/2016		0.264 (U)				
12/15/2016						0.071 (U)
1/10/2017			0.376 (U)			
1/11/2017				0.705 (U)		
1/12/2017	0.202 (U)					
1/16/2017					0	0.44 (U)
2/22/2017		1.06 (U)				
3/2/2017				0.251 (U)	0.504 (U)	
3/3/2017						0.448 (U)
3/7/2017	0.0674 (U)					
3/8/2017			0.0745 (U)			
4/26/2017			0.282 (U)			
4/27/2017				1.08	0.593 (U)	
4/28/2017						0.548 (U)
5/2/2017	0.444 (U)					
5/8/2017		0.187 (U)				
5/26/2017						0 (U)
6/27/2017	0.77 (U)			1.02 (U)	0.657 (U)	
6/28/2017						0.608 (U)
6/30/2017			0.994			
7/17/2017		1.42				
10/16/2017		1.17				
2/19/2018		1.58 (D)				
3/27/2018			0.189 (U)		0.39 (U)	
3/28/2018						0.412 (U)
3/29/2018	0.648 (U)			0.503 (U)		
6/5/2018				0.771 (U)		
6/6/2018					2.8	
6/7/2018	0.745 (U)					0.73 (U)
6/8/2018			0.218 (U)			
8/6/2018		0.196 (U)				
9/26/2018	0.377 (U)					
10/1/2018			1.24	0.783 (U)	1.06 (U)	0.756 (U)
2/26/2019			0.202 (U)			
2/27/2019				1.21 (U)	0.637 (U)	0.635 (U)
3/4/2019	1 (U)					
3/28/2019				1.13 (U)	0.125 (U)	
3/29/2019			0 (U)			0.224 (U)
4/3/2019	0.43 (U)					
8/19/2019		1.39				
9/24/2019	0.699 (U)			1.22 (U)	0.949 (U)	0.429 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
9/25/2019			0.707 (U)			
10/8/2019		1.32 (U)				
2/10/2020				1.41	1.25 (U)	
2/11/2020						0.817 (U)
2/12/2020	0.913 (U)		1.07 (U)			
3/17/2020		1 (U)				
3/18/2020			0.207 (U)		0.458 (U)	
3/19/2020				1.1		0.715 (U)
8/26/2020		1.75				
9/22/2020	0.428 (U)	0.688 (U)				
9/23/2020				1.35 (U)	0.00884 (U)	0.565 (U)
9/25/2020			0.603 (U)			
2/8/2021	0.613 (U)					
2/10/2021			0.353 (U)			1.04 (U)
2/12/2021				0.366 (U)	0.458 (U)	
3/2/2021	0.579 (U)	0.948 (U)	0.71 (U)			
3/3/2021				0.492 (U)	0.105 (U)	0.459 (U)
8/19/2021			0.786 (U)	1.17 (U)	0.0732 (U)	
8/20/2021		0.528 (U)				
8/26/2021	0.798 (U)					
8/27/2021						0.409 (U)
2/8/2022		0.462 (U)				
2/9/2022				1.19	0.422 (U)	0.894 (U)
2/10/2022	0.375 (U)		0 (U)			
8/30/2022	0.72 (U)	1.52		0.827		0.699 (U)
8/31/2022			0.421 (U)		0.49 (U)	
2/7/2023		1		0.92 (U)	0.661 (U)	0.536 (U)
2/8/2023			0.83 (U)			
2/9/2023	0.0815 (U)					
8/15/2023	0.846 (U)	0.833 (U)	0.652 (U)	0.935 (U)	0.726 (U)	0.611 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.896		
6/2/2016	0.0652 (U)	2.51			
7/25/2016	3.01		2.28		
7/26/2016		3.82			
9/1/2016				2.28	
9/14/2016			0.821 (U)		
9/15/2016		4.24			
9/19/2016	0.871 (U)				
11/1/2016	0.307 (U)	3.92	0.585 (U)		
11/16/2016				0.639 (U)	
11/28/2016				0.996	
1/11/2017		2.52	1.22		
1/16/2017	0.284 (U)				
2/21/2017	0.503 (U)				
2/27/2017				0.617 (U)	
3/1/2017			0.877 (U)		
3/2/2017		3.13			
4/26/2017	0.204 (U)	2.35	0.672 (U)		
5/8/2017				0.949	
6/28/2017		2.6	1.07 (U)		
6/30/2017	0.738 (U)				
7/13/2017				1.41	
10/11/2017				0.856 (U)	
3/27/2018	0.31 (U)				
3/28/2018		3	0.65 (U)		
4/4/2018				0.974	
6/7/2018		2.79			
6/8/2018			1.89		
6/11/2018	0.608 (U)				
9/19/2018				1.15 (U)	
10/1/2018		3.14	1.58		
10/2/2018	0.97 (U)				
2/26/2019	0.524 (U)				
2/27/2019		3.79	3.67		
4/1/2019	1.02 (U)	4.33	2.28		
8/21/2019				1.31	
9/25/2019	1.02 (U)	4.2	1.6		
10/9/2019				0.892 (U)	
2/11/2020		3.87	1.85		
2/12/2020	0.301 (U)				
3/17/2020				1.74	
3/19/2020	1	3.96	2.2		
7/6/2020				2.27	
8/27/2020					0.852 (U)
8/28/2020				2.34	
9/22/2020					0.268 (U)
9/23/2020		4.14	1.14 (U)	0.575 (U)	
9/24/2020	0.684 (U)				
10/7/2020				1.81	0.819 (U)
2/10/2021		3.65	2.46		
2/11/2021	0.678 (U)				
3/1/2021	0.412 (U)				0.846 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				1.64	
3/3/2021		3.58	2.03		
8/19/2021	0.234 (U)	3.53			
8/20/2021					0.496 (U)
8/27/2021			1.34	1.83	
2/9/2022		3.28	1.91	1.74	0.926
2/10/2022	0.268 (U)				
8/31/2022	0.506 (U)	2.12	1.33	1.51	0.322 (U)
2/8/2023	0.417 (U)	2.74	1.18		
2/10/2023				1.92	0.786 (U)
8/15/2023		2.79		1.92	0.319 (U)
8/16/2023	0.895 (U)		1.87		



# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.1	<0.1
6/7/2016				<0.1		
7/27/2016				<0.1	<0.1	<0.1
8/30/2016	0.09 (J)					
8/31/2016		<0.1	0.11 (J)			
9/16/2016				<0.1		<0.1
9/19/2016					<0.1	
11/3/2016				<0.1	<0.1	<0.1
11/14/2016	0.18 (J)		0.71			
11/15/2016		0.12 (J)				
1/11/2017				<0.1	<0.1	<0.1
2/24/2017	0.05 (J)					
2/27/2017			0.22 (J)			
2/28/2017		0.07 (J)				
3/1/2017					<0.1	<0.1
3/2/2017				<0.1		
4/26/2017					<0.1	<0.1
5/2/2017				<0.1		
5/8/2017	0.03 (J)	0.04 (J)				
5/9/2017			0.2 (J)			
6/28/2017					<0.1	<0.1
6/29/2017				<0.1		
7/11/2017	0.07 (J)					
7/13/2017		<0.1	0.11 (J)			
10/4/2017				<0.1		<0.1
10/5/2017					<0.1	
10/10/2017	<0.1	<0.1	0.39			
3/28/2018				<0.1	<0.1	<0.1
4/2/2018	<0.1					
4/3/2018			<0.3			
4/4/2018		<0.1				
6/7/2018					<0.1	
6/11/2018				<0.1		<0.1
9/19/2018	<0.1	<0.1	<0.3			
9/25/2018				<0.1	<0.1	<0.1
3/5/2019				<0.1		<0.1
3/6/2019					<0.1	
3/27/2019	0.081 (J)	<0.1	0.18 (J)			
4/2/2019				<0.1		
4/3/2019					<0.1	<0.1
8/20/2019	<0.1	<0.1	<0.3			
9/25/2019				<0.1		
9/26/2019					<0.1	<0.1
10/8/2019	0.034 (J)	<0.1				
10/9/2019			<0.3			
2/11/2020				<0.1	<0.1	<0.1
3/17/2020	<0.1	<0.1	0.076 (J)			
3/24/2020				<0.1	<0.1	<0.1
8/27/2020	<0.1	<0.1				
8/28/2020			0.07 (J)			
9/22/2020	<0.1	<0.1				
9/23/2020			0.082 (J)	<0.1	<0.1	<0.1

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
2/9/2021					<0.1	<0.1
3/1/2021	<0.1	<0.1	0.073 (J)			
3/3/2021				<0.1	<0.1	<0.1
8/19/2021	<0.1	<0.1	0.075 (J)			
8/26/2021						<0.1
8/27/2021				<0.1	<0.1	
2/8/2022	<0.1					
2/9/2022		<0.1	0.063 (J)	<0.1	<0.1	<0.1
8/30/2022				<0.1	<0.1	<0.1
8/31/2022	0.065 (J)	0.055 (J)	0.1			
2/7/2023				<0.1	<0.1	<0.1
2/8/2023	0.077 (J)	0.062 (J)				
2/9/2023			0.11			
8/15/2023	<0.1	<0.1	0.07 (J)	<0.1	<0.1	<0.1

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.1	0.11 (J)
6/7/2016	<0.1	<0.3				
7/26/2016					<0.1	0.05 (J)
7/27/2016	<0.1					
7/28/2016		0.02 (J)				
9/14/2016					<0.1	0.04 (J)
9/19/2016	<0.1	0.02 (J)				
11/2/2016	<0.1				<0.1	<0.1
11/3/2016		<0.3				
1/12/2017						0.04 (J)
1/13/2017	<0.1	<0.3			<0.1	
3/6/2017	<0.1	<0.3			<0.1	
3/7/2017						<0.1
4/26/2017	<0.1	0.04 (J)				
5/1/2017					<0.1	<0.1
6/27/2017						<0.1
6/29/2017	<0.1	<0.3			<0.1	
10/3/2017		<0.3				<0.1
10/4/2017	<0.1					
10/5/2017					<0.1	
10/11/2017			<0.1			
10/12/2017				<0.1		
11/20/2017			<0.1	<0.1		
1/10/2018				<0.1		
1/11/2018			<0.1			
2/19/2018				<0.1		
2/20/2018			0.23			
3/29/2018	<0.1	<0.3			<0.1	<0.1
4/3/2018			<0.1	<0.1		
6/5/2018		0.13 (J)				
6/6/2018	<0.1					0.15 (J)
6/7/2018					<0.1	
6/28/2018			<0.1	<0.1		
8/7/2018			0.048 (J)	<0.1		
9/24/2018			<0.1	<0.1		
9/25/2018	<0.1	0 (J)				
9/26/2018					<0.1	<0.1
3/4/2019					<0.1	0.19 (J)
3/5/2019	<0.1	0.32				
3/26/2019				<0.1		
3/27/2019			<0.1			
4/2/2019		0.12 (J)				
4/3/2019	<0.1				<0.1	0.047 (J)
8/21/2019			<0.1	<0.1		
9/24/2019		0.15 (J)				0.05 (J)
9/25/2019	<0.1				<0.1	
10/9/2019			<0.1	<0.1		
2/12/2020	<0.1	0.1 (J)	<0.1	<0.1	<0.1	<0.1
3/24/2020	<0.1	0.081 (J)		<0.1		<0.1
3/25/2020			<0.1		<0.1	
9/22/2020					<0.1	0.056 (J)
9/24/2020	<0.1	0.079 (J)	<0.1	<0.1		

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/8/2021						0.055 (J)
2/9/2021	<0.1	0.092 (J)			<0.1	
2/10/2021			<0.1	<0.1		
3/2/2021						<0.1
3/3/2021	<0.1				<0.1	
3/4/2021		0.091 (J)	<0.1	<0.1		
8/26/2021			0.063 (J)		<0.1	0.061 (J)
8/27/2021	<0.1					
9/1/2021		0.11				
9/3/2021				<0.1		
2/8/2022			0.052 (J)	<0.1		
2/9/2022	<0.1	0.1				
2/10/2022						0.055 (J)
2/11/2022					<0.1	
8/30/2022		0.1				0.085 (J)
8/31/2022	<0.1		0.065 (J)	0.05 (J)	0.061 (J)	
2/7/2023	<0.1	0.1	0.076 (J)			0.082 (J)
2/8/2023				<0.1		
2/9/2023					0.067 (J)	
8/15/2023	<0.1	0.061 (J)	<0.1	<0.1	<0.1	<0.1

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				0.12 (J)	<0.1	
6/2/2016	<0.1		<0.1			
7/25/2016					0.06 (J)	
7/26/2016	<0.1		0.02 (J)	0.08 (J)		
8/31/2016		0.14 (J)				
9/13/2016				0.11 (J)	<0.1	
9/14/2016	<0.1					0.08 (J)
9/15/2016			<0.1			
11/1/2016				<0.3		
11/2/2016			<0.1			
11/4/2016	<0.1				<0.1	<0.3
11/28/2016		0.12 (J)				
12/15/2016						0.06 (J)
1/10/2017			<0.1			
1/11/2017				0.05 (J)		
1/12/2017	<0.1					
1/16/2017					<0.1	0.1 (J)
2/22/2017		0.09 (J)				
3/2/2017				<0.3	<0.1	
3/3/2017						<0.3
3/7/2017	<0.1					
3/8/2017			<0.1			
4/26/2017			<0.1			
4/27/2017				0.04 (J)	0.01 (J)	
4/28/2017						0.06 (J)
5/2/2017	<0.1					
5/8/2017		0.05 (J)				
5/26/2017						0.09 (J)
6/27/2017	<0.1			<0.3	<0.1	
6/28/2017						0.11 (J)
6/30/2017			<0.1			
7/17/2017		0.14 (J)				
10/3/2017	<0.1			<0.3	<0.1	<0.3
10/5/2017			<0.1			
10/16/2017		0.12 (J)				
2/19/2018		0.17				
3/27/2018			<0.1		<0.1	
3/28/2018						0.31
3/29/2018	<0.1			<0.3		
6/5/2018				0.055 (J)		
6/6/2018					<0.1	
6/7/2018	<0.1					0.11 (J)
6/8/2018			<0.1			
8/6/2018		0.087 (J)				
9/26/2018	<0.1					
10/1/2018			<0.1	<0.3	<0.1	<0.3
2/25/2019		0.14 (J)				
2/26/2019			<0.1			
2/27/2019				0.052 (J)	<0.1	0.12 (J)
3/4/2019	<0.1					
3/28/2019				0.036 (J)	<0.1	
3/29/2019			<0.1			0.13 (J)

# Time Series

Constituent: Fluoride, total (mg/L)    Analysis Run 10/9/2023 6:04 PM  
 Plant Yates    Client: Southern Company    Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
4/3/2019	<0.1					
6/12/2019		0.12 (J)				
8/19/2019		<0.3				
9/24/2019	<0.1			0.063 (J)	<0.1	0.081 (J)
9/25/2019			<0.1			
10/8/2019		0.052 (J)				
2/10/2020				0.061 (J)	<0.1	
2/11/2020						0.075 (J)
2/12/2020	<0.1		<0.1			
3/17/2020		0.053 (J)				
3/18/2020			<0.1		<0.1	
3/19/2020				0.064 (J)		0.093 (J)
3/24/2020	<0.1					
8/26/2020		0.068 (J)				
9/22/2020	<0.1	0.058 (J)				
9/23/2020				0.058 (J)	<0.1	0.08 (J)
9/25/2020			<0.1			
2/8/2021	<0.1					
2/10/2021			<0.1			0.094 (J)
2/12/2021				0.068 (J)	<0.1	
3/2/2021	<0.1	0.073 (J)	<0.1			
3/3/2021				0.078 (J)	<0.1	0.085 (J)
8/19/2021			<0.1	0.074 (J)	<0.1	
8/20/2021		0.06 (J)				
8/26/2021	<0.1					
8/27/2021						0.12
2/8/2022		0.064 (J)				
2/9/2022				0.057 (J)	<0.1	0.094 (J)
2/10/2022	<0.1		<0.1			
8/30/2022	<0.1	0.086 (J)		0.093 (J)		0.12
8/31/2022			0.053 (J)		0.065 (J)	
2/7/2023		0.095 (J)		0.093 (J)	0.071 (J)	0.12
2/8/2023			0.059 (J)			
2/9/2023	<0.1					
8/15/2023	<0.1	0.065 (J)	<0.1	0.057 (J)	<0.1	0.081 (J)

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.15 (J)		
6/2/2016	<0.1	0.62			
7/25/2016	0.06 (J)		0.14 (J)		
7/26/2016		0.49			
9/1/2016				0.08 (J)	
9/14/2016			0.18 (J)		
9/15/2016		0.54			
9/19/2016	<0.1				
11/1/2016	<0.1	0.68	<0.1		
11/16/2016				0.04 (J)	
1/11/2017		0.49	0.09 (J)		
1/16/2017	<0.1				
2/21/2017	<0.1				
2/27/2017				0.05 (J)	
3/1/2017			<0.1		
3/2/2017		0.48			
4/26/2017	<0.1	0.48	0.08 (J)		
5/8/2017				0.004 (J)	
6/28/2017		0.47	0.12 (J)		
6/30/2017	<0.1				
7/13/2017				0.35	
10/4/2017	<0.1	<0.47	<0.1		
10/11/2017				<0.3	
3/27/2018	<0.1				
3/28/2018		0.56	<0.1		
4/4/2018				<0.3	
6/7/2018		0.48			
6/8/2018			0.2 (J)		
6/11/2018	<0.1				
9/19/2018				<0.3	
10/1/2018		0.44	<0.1		
10/2/2018	<0.1				
2/26/2019	<0.1				
2/27/2019		0.53	0.13 (J)		
3/27/2019				0.12 (J)	
4/1/2019	<0.1	0.45	0.1 (J)		
8/21/2019				<0.3	
9/25/2019	<0.1	0.46	0.1 (J)		
10/9/2019				0.12 (J)	
2/11/2020			0.094 (J)		
2/12/2020	<0.1	0.4			
3/17/2020				<0.3	
3/19/2020	<0.1	0.51	0.11 (J)		
7/6/2020				0.12	
8/27/2020					<0.1
8/28/2020				0.12	
9/22/2020					<0.1
9/23/2020		0.47	0.098 (J)	0.12	
9/24/2020	<0.1				
10/7/2020				0.13	<0.1
11/12/2020				0.084 (J)	<0.1
2/10/2021		0.43	<0.1		

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
2/11/2021	<0.1				
3/1/2021	<0.1				<0.1
3/2/2021				0.12	
3/3/2021		0.44	0.1		
8/19/2021	<0.1	0.47			
8/20/2021					<0.1
8/27/2021			0.12	0.13	
2/9/2022		0.43	0.097 (J)	0.12	<0.1
2/11/2022	<0.1				
8/31/2022	0.06 (J)	0.42	0.13	0.12	0.059 (J)
2/8/2023	0.064 (J)	0.56	0.16		
2/10/2023				0.17	0.063 (J)
8/15/2023		0.42		0.12	<0.1
8/16/2023	<0.1		0.11		



# Time Series

Constituent: Lead (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.001	<0.001
6/7/2016				<0.001		
7/27/2016				<0.001	<0.001	<0.001
8/30/2016	<0.001					
8/31/2016		<0.001	<0.001			
9/16/2016				<0.001		<0.001
9/19/2016					<0.001	
11/3/2016				<0.001	<0.001	<0.001
11/14/2016	<0.001		<0.001			
11/15/2016		<0.001				
1/11/2017				<0.001	<0.001	<0.001
2/24/2017	<0.001					
2/27/2017			<0.001			
2/28/2017		<0.001				
3/1/2017					<0.001	<0.001
3/2/2017				8E-05 (J)		
4/26/2017					<0.001	<0.001
5/2/2017				<0.001		
5/8/2017	<0.001	<0.001				
5/9/2017			0.0001 (J)			
6/28/2017					<0.001	0.0001 (J)
6/29/2017				8E-05 (J)		
7/11/2017	<0.001					
7/13/2017		<0.001	<0.001			
10/10/2017	<0.001	<0.001	<0.001			
3/28/2018				<0.001	<0.001	<0.001
4/2/2018	<0.001					
4/3/2018			<0.001			
4/4/2018		<0.001				
9/19/2018	<0.001	<0.001	<0.001			
3/5/2019				<0.001		<0.001
3/6/2019					<0.001	
4/2/2019				<0.001		
4/3/2019					<0.001	<0.001
8/20/2019	<0.001	<0.001	<0.001			
9/25/2019				<0.001		
9/26/2019					<0.001	<0.001
2/11/2020				<0.001	<0.001	<0.001
3/24/2020				6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)
8/27/2020	<0.001	<0.001				
8/28/2020			<0.001			
9/22/2020	<0.001	<0.001				
9/23/2020			<0.001	4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)
2/9/2021					5E-05 (J)	9.4E-05 (J)
3/1/2021	<0.001	<0.001	<0.001			
3/3/2021				<0.001	<0.001	7.6E-05 (J)
8/19/2021	<0.001	<0.001	<0.001			
8/26/2021						<0.001
8/27/2021				<0.001	<0.001	
2/8/2022	<0.001					
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2022				<0.001	<0.001	<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/31/2022	<0.001	<0.001	<0.001			
2/7/2023				<0.001	<0.001	<0.001
2/8/2023	<0.001	<0.001				
2/9/2023			<0.001			
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.001	<0.001
6/7/2016	<0.001	<0.001				
7/26/2016					<0.001	<0.001
7/27/2016	<0.001					
7/28/2016		<0.001				
9/14/2016					<0.001	<0.001
9/19/2016	<0.001	<0.001				
11/2/2016	0.0013 (J)				<0.001	<0.001
11/3/2016		<0.001				
1/12/2017						<0.001
1/13/2017	<0.001	<0.001			<0.001	
3/6/2017	<0.001	<0.001			<0.001	
3/7/2017						0.0001 (J)
4/26/2017	<0.001	<0.001				
5/1/2017					<0.001	<0.001
6/27/2017						<0.001
6/29/2017	<0.001	<0.001			<0.001	
10/11/2017			0.0001 (J)			
10/12/2017				9E-05 (J)		
11/20/2017			<0.001	<0.001		
1/10/2018				<0.001		
1/11/2018			0.0002 (J)			
2/19/2018				<0.001		
2/20/2018			<0.001			
3/29/2018	<0.001	<0.001			<0.001	<0.001
4/3/2018			<0.001	<0.001		
6/28/2018			<0.001	<0.001		
8/7/2018			<0.001	<0.001		
9/24/2018			<0.001	<0.001		
3/4/2019					<0.001	<0.001
3/5/2019	<0.001	<0.001				
4/2/2019		<0.001				
4/3/2019	<0.001				<0.001	<0.001
8/21/2019			<0.001	<0.001		
9/24/2019		<0.001				<0.001
9/25/2019	<0.001				<0.001	
10/9/2019			<0.001	<0.001		
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/24/2020	0.00011 (J)	<0.001		<0.001		5.4E-05 (J)
3/25/2020			5.1E-05 (J)		<0.001	
9/22/2020					<0.001	4.5E-05 (J)
9/24/2020	9.2E-05 (J)	4.6E-05 (J)	<0.001	3.8E-05 (J)		
2/8/2021						0.00013 (J)
2/9/2021	6.3E-05 (J)	<0.001			<0.001	
2/10/2021			<0.001	<0.001		
3/2/2021						5.1E-05 (J)
3/3/2021	4.5E-05 (J)				<0.001	
3/4/2021		<0.001	<0.001	<0.001		
8/26/2021			<0.001		<0.001	<0.001
8/27/2021	<0.001					
9/1/2021		<0.001				
9/3/2021				<0.001		

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/8/2022			<0.001	<0.001		
2/9/2022	<0.001	<0.001				
2/10/2022						<0.001
2/11/2022					<0.001	
8/30/2022		<0.001				<0.001
8/31/2022	<0.001		<0.001	<0.001	<0.001	
2/7/2023	<0.001	<0.001	<0.001			<0.001
2/8/2023				<0.001		
2/9/2023					<0.001	
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.001				
9/11/2007		<0.001				
3/20/2008		<0.001				
8/27/2008		<0.001				
3/3/2009		<0.001				
11/18/2009		<0.001				
3/3/2010		<0.001				
9/8/2010		<0.001				
3/10/2011		<0.001				
9/8/2011		<0.001				
3/5/2012		<0.001				
9/10/2012		<0.001				
2/6/2013		<0.001				
8/12/2013		<0.001				
2/5/2014		<0.001				
8/5/2014		<0.001				
2/4/2015		<0.001				
8/3/2015		<0.001				
2/16/2016		<0.001				
6/1/2016				0.00056 (J)	<0.001	
6/2/2016	<0.001		<0.001			
7/25/2016					<0.001	
7/26/2016	<0.001		<0.001	<0.001		
8/31/2016		<0.001				
9/13/2016				0.0001 (J)	<0.001	
9/14/2016	<0.001					<0.001
9/15/2016			<0.001			
11/1/2016				<0.001		
11/2/2016			<0.001			
11/4/2016	<0.001				<0.001	<0.001
11/28/2016		<0.001				
12/15/2016						<0.001
1/10/2017			<0.001			
1/11/2017				<0.001		
1/12/2017	<0.001					
1/16/2017					<0.001	<0.001
2/22/2017		<0.001				
3/2/2017				0.0001 (J)	<0.001	
3/3/2017						<0.001
3/7/2017	7E-05 (J)					
3/8/2017			0.0001 (J)			
4/26/2017			<0.001			
4/27/2017				<0.001	<0.001	
4/28/2017						<0.001
5/2/2017	<0.001					
5/8/2017		<0.001				
5/26/2017						<0.001
6/27/2017	<0.001			<0.001	<0.001	
6/28/2017						<0.001
6/30/2017			<0.001			
7/17/2017		<0.001				
10/16/2017		<0.001				

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.001				
3/27/2018			<0.001		<0.001	
3/28/2018						<0.001
3/29/2018	<0.001			<0.001		
8/6/2018		<0.001				
2/25/2019		<0.001				
2/26/2019			<0.001			
2/27/2019				<0.001	<0.001	<0.001
3/4/2019	<0.001					
4/3/2019	<0.001					
6/12/2019		<0.001				
8/19/2019		<0.001				
9/24/2019	9E-05 (J)					
10/8/2019		<0.001				
2/10/2020				4.9E-05 (J)	<0.001	
2/11/2020						<0.001
2/12/2020	<0.001		<0.001			
3/17/2020		<0.001				
3/18/2020			<0.001		<0.001	
3/19/2020				0.00012 (J)		<0.001
3/24/2020	6.8E-05 (J)					
8/26/2020		<0.001				
9/22/2020	4.2E-05 (J)	0.0001 (J)				
9/23/2020				<0.001	0.00021 (J)	0.0011 (J)
9/25/2020			<0.001			
2/8/2021	3.7E-05 (J)					
2/10/2021			4.8E-05 (J)			0.00015 (J)
2/12/2021				4.4E-05 (J)	0.00038 (J)	
3/2/2021	9.2E-05 (J)	<0.001	<0.001			
3/3/2021				5.6E-05 (J)	<0.001	<0.001
8/19/2021			<0.001	<0.001	<0.001	
8/20/2021		<0.001				
8/26/2021	<0.001					
8/27/2021						<0.001
2/8/2022		<0.001				
2/9/2022				<0.001	<0.001	<0.001
2/10/2022	<0.001		<0.001			
8/30/2022	<0.001	<0.001		<0.001		<0.001
8/31/2022			<0.001		<0.001	
2/7/2023		<0.001		<0.001	<0.001	<0.001
2/8/2023			<0.001			
2/9/2023	<0.001					
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.001		
6/2/2016	<0.001	0.00056 (J)			
7/25/2016	<0.001		<0.001		
7/26/2016		0.0001 (J)			
9/1/2016				<0.001	
9/14/2016			<0.001		
9/15/2016		0.0002 (J)			
9/19/2016	<0.001				
11/1/2016	<0.001	<0.001	<0.001		
11/16/2016				<0.001	
1/11/2017		<0.001	<0.001		
1/16/2017	<0.001				
2/21/2017	<0.001				
2/27/2017				<0.001	
3/1/2017			<0.001		
3/2/2017		0.0002 (J)			
4/26/2017	<0.001	<0.001	<0.001		
5/8/2017				<0.001	
6/28/2017		<0.001	<0.001		
6/30/2017	<0.001				
7/13/2017				<0.001	
10/11/2017				<0.001	
3/27/2018	<0.001				
3/28/2018		<0.001	<0.001		
4/4/2018				<0.001	
9/19/2018				<0.001	
2/26/2019	<0.001				
2/27/2019		<0.001	<0.001		
8/21/2019				<0.001	
2/11/2020			<0.001		
2/12/2020	<0.001	<0.001			
3/19/2020	<0.001	0.00017 (J)	<0.001		
7/6/2020				<0.001	
8/27/2020					9.2E-05 (J)
8/28/2020				<0.001	
9/22/2020					6E-05 (J)
9/23/2020		<0.001	0.00015 (J)	<0.001	
9/24/2020	<0.001				
10/7/2020				<0.001	<0.001
11/12/2020				4.4E-05 (J)	6.4E-05 (J)
2/10/2021		<0.001	<0.001		
2/11/2021	4.6E-05 (J)				
3/1/2021	<0.001				8.7E-05 (J)
3/2/2021				<0.001	
3/3/2021		<0.001	<0.001		
8/19/2021	<0.001	<0.001			
8/20/2021					<0.001
8/27/2021			<0.001	<0.001	
2/9/2022		<0.001	<0.001	<0.001	<0.001
2/11/2022	<0.001				
8/31/2022	<0.001	<0.001	<0.001	<0.001	<0.001
2/8/2023	<0.001	<0.001	<0.001		

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
2/10/2023				<0.001	<0.001
8/15/2023		<0.001		<0.001	<0.001
8/16/2023	<0.001		<0.001		



# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					0.0088	0.015
6/7/2016				<0.03		
7/27/2016				<0.03	0.0087 (J)	0.0049 (J)
8/30/2016	0.0061 (J)					
8/31/2016		0.0115 (J)	0.0147 (J)			
9/16/2016				<0.03		0.0031 (J)
9/19/2016					0.0043 (J)	
11/3/2016				<0.03	<0.03	0.0021 (J)
11/14/2016	0.0064 (J)		0.0175 (J)			
11/15/2016		0.0148 (J)				
1/11/2017				0.0035 (J)	0.0052 (J)	0.0025 (J)
2/24/2017	0.0049 (J)					
2/27/2017			0.0135 (J)			
2/28/2017		0.0124 (J)				
3/1/2017					0.0053 (J)	0.0029 (J)
3/2/2017				<0.03		
4/26/2017					0.0041 (J)	0.0019 (J)
5/2/2017				<0.03		
5/8/2017	0.0053 (J)	0.0132 (J)				
5/9/2017			0.0136 (J)			
6/28/2017					0.0039 (J)	0.0016 (J)
6/29/2017				<0.03		
7/11/2017	0.0051 (J)					
7/13/2017		0.0124 (J)	0.0129 (J)			
10/10/2017	0.0043 (J)	0.0123 (J)	0.015 (J)			
3/28/2018				<0.03	0.0041 (J)	0.0024 (J)
4/2/2018	0.0045 (J)					
4/3/2018			0.014 (J)			
4/4/2018		0.014 (J)				
6/7/2018					0.0032 (J)	
6/11/2018				<0.03		0.0014 (J)
9/19/2018	0.0043 (J)	0.013 (J)	0.012 (J)			
9/25/2018				<0.03	0.0036 (J)	0.0016 (J)
3/5/2019				<0.03		0.0031 (J)
3/6/2019					0.0033 (J)	
4/2/2019				<0.03		
4/3/2019					0.0035 (J)	0.0028 (J)
8/20/2019	0.0036 (J)	0.013 (J)	0.012 (J)			
9/25/2019				<0.03		
9/26/2019					0.0032 (J)	0.0029 (J)
10/8/2019	0.0036 (J)	0.012 (J)				
10/9/2019			0.012 (J)			
2/11/2020				<0.03	0.0033 (J)	0.005 (J)
3/17/2020	0.0046 (J)	0.013 (J)	0.014 (J)			
3/24/2020				0.0034 (J)	0.0033 (J)	0.0035 (J)
8/27/2020	0.0039 (J)	0.013 (J)				
8/28/2020			0.012 (J)			
9/22/2020	0.0036 (J)	0.013 (J)				
9/23/2020			0.012 (J)	<0.03	0.003 (J)	0.0022 (J)
2/9/2021					0.0031 (J)	0.0019 (J)
3/1/2021	0.0037 (J)	0.013 (J)	0.012 (J)			
3/3/2021				<0.03	0.0034 (J)	0.0021 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/19/2021	0.0038 (J)	0.013 (J)	0.012 (J)			
8/26/2021						0.0019 (J)
8/27/2021				<0.03	0.0032 (J)	
2/8/2022	0.0039 (J)					
2/9/2022		0.014 (J)	0.012 (J)	<0.03	0.0032 (J)	0.0015 (J)
8/30/2022				<0.03	0.0036 (J)	0.0014 (J)
8/31/2022	0.0037 (J)	0.013 (J)	0.012 (J)			
2/7/2023				<0.03	0.003 (J)	0.0012 (J)
2/8/2023	0.0037 (J)	0.014 (J)				
2/9/2023			0.01 (J)			
8/15/2023	0.004 (J)	0.013 (J)	0.012 (J)	<0.03	<0.03	0.00077 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					0.013	0.0049 (J)
6/7/2016	<0.03	0.0055				
7/26/2016					0.0123 (J)	0.0063 (J)
7/27/2016	<0.03					
7/28/2016		0.0045 (J)				
9/14/2016					0.0137 (J)	0.0058 (J)
9/19/2016	<0.03	0.0054 (J)				
11/2/2016	<0.03				0.0136 (J)	0.0053 (J)
11/3/2016		<0.03				
1/12/2017						0.0054 (J)
1/13/2017	<0.03	0.0062 (J)			0.0121 (J)	
3/6/2017	<0.03	0.0059 (J)			0.0143 (J)	
3/7/2017						0.0056 (J)
4/26/2017	<0.03	0.0054 (J)				
5/1/2017					0.0132 (J)	0.0031 (J)
6/27/2017						0.0018 (J)
6/29/2017	<0.03	0.0047 (J)			0.0145 (J)	
10/11/2017			0.0018 (J)			
10/12/2017				<0.03		
11/20/2017			0.0018 (J)	<0.03		
1/10/2018				<0.03		
1/11/2018			0.0019 (J)			
2/19/2018				<0.03		
2/20/2018			<0.03			
3/29/2018	<0.03	0.0062 (J)			0.014 (J)	0.0058 (J)
4/3/2018			0.0022 (J)	<0.03		
6/5/2018		0.0061 (J)				
6/6/2018	<0.03					0.0068 (J)
6/7/2018					0.013 (J)	
6/28/2018			0.0026 (J)	<0.03		
8/7/2018			0.0024 (J)	<0.03		
9/24/2018			0.0022 (J)	<0.03		
9/25/2018	<0.03	0.0062 (J)				
9/26/2018					0.014 (J)	0.0065 (J)
3/4/2019					0.015 (J)	0.0065 (J)
3/5/2019	<0.03	0.0053 (J)				
4/2/2019		0.0051 (J)				
4/3/2019	<0.03				0.014 (J)	0.007 (J)
8/21/2019			0.0035 (J)	<0.03		
9/24/2019		0.0068 (J)				0.0065 (J)
9/25/2019	<0.03				0.014 (J)	
10/9/2019			0.0036 (J)	<0.03		
2/12/2020	<0.03	0.0065 (J)	0.0041 (J)	<0.03	0.011 (J)	0.0066 (J)
3/24/2020	<0.03	0.0064 (J)		<0.03		0.0064 (J)
3/25/2020			0.0049 (J)		0.014 (J)	
9/22/2020					0.013 (J)	0.0066 (J)
9/24/2020	<0.03	0.0069 (J)	0.0054 (J)	<0.03		
2/8/2021						0.0063 (J)
2/9/2021	<0.03	0.006 (J)			0.011 (J)	
2/10/2021			0.0071 (J)	<0.03		
3/2/2021						0.0018 (J)
3/3/2021	<0.03				0.012 (J)	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		0.0062 (J)	0.0084 (J)	<0.03		
8/26/2021			0.0082 (J)		0.0094 (J)	0.0075 (J)
8/27/2021	<0.03					
9/1/2021		0.0057 (J)				
9/3/2021				<0.03		
2/8/2022			0.008 (J)	0.00076 (J)		
2/9/2022	0.00082 (J)	0.0061 (J)				
2/10/2022						0.0076 (J)
2/11/2022					0.012 (J)	
8/30/2022		0.0079 (J)				0.0068 (J)
8/31/2022	<0.03		0.0065 (J)	<0.03	0.013 (J)	
2/7/2023	<0.03	0.0059 (J)	0.0065 (J)			0.0059 (J)
2/8/2023				0.00074 (J)		
2/9/2023					0.014 (J)	
8/15/2023	<0.03	0.0062 (J)	0.0064 (J)	<0.03	0.0083 (J)	0.0059 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				0.015	<0.03	
6/2/2016	<0.03		<0.03			
7/25/2016					0.002 (J)	
7/26/2016	0.0027 (J)		<0.03	0.0135 (J)		
8/31/2016		<0.03				
9/13/2016				0.0112 (J)	<0.03	
9/14/2016	0.0029 (J)					0.004 (J)
9/15/2016			<0.03			
11/1/2016				0.0163 (J)		
11/2/2016			<0.03			
11/4/2016	<0.03				<0.03	<0.03
11/28/2016		<0.03				
12/15/2016						0.0026 (J)
1/10/2017			<0.03			
1/11/2017				0.0166 (J)		
1/12/2017	0.0032 (J)					
1/16/2017					0.0023 (J)	0.0023 (J)
2/22/2017		<0.03				
3/2/2017				0.0159 (J)	0.0025 (J)	
3/3/2017						0.0013 (J)
3/7/2017	0.0035 (J)					
3/8/2017			<0.03			
4/26/2017			<0.03			
4/27/2017				0.0137 (J)	0.0027 (J)	
4/28/2017						0.0031 (J)
5/2/2017	0.0031 (J)					
5/8/2017		0.0014 (J)				
5/26/2017						0.0038 (J)
6/27/2017	0.0029 (J)			0.0094 (J)	0.0024 (J)	
6/28/2017						0.0026 (J)
6/30/2017			<0.03			
7/17/2017		<0.03				
10/16/2017		0.0016 (J)				
2/19/2018		<0.03				
3/27/2018			<0.03		0.0023 (J)	
3/28/2018						0.0025 (J)
3/29/2018	0.0034 (J)			0.0078 (J)		
6/5/2018				0.0079 (J)		
6/6/2018					0.0024 (J)	
6/7/2018	0.0032 (J)					0.0017 (J)
6/8/2018			<0.03			
8/6/2018		<0.03				
9/26/2018	0.0032 (J)					
10/1/2018			<0.03	0.0053 (J)	0.0023 (J)	<0.03
2/26/2019			<0.03			
2/27/2019				0.0093 (J)	0.0023 (J)	0.0011 (J)
3/4/2019	0.0032 (J)					
3/28/2019				0.013 (J)	0.0022 (J)	
3/29/2019			<0.03			0.0016 (J)
4/3/2019	0.0035 (J)					
8/19/2019		0.0019 (J)				
9/24/2019	0.0031 (J)			0.0046 (J)	0.0023 (J)	0.0011 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
9/25/2019			<0.03			
10/8/2019		0.0015 (J)				
2/10/2020				0.011 (J)	0.0023 (J)	
2/11/2020						0.0012 (J)
2/12/2020	0.0032 (J)		<0.03			
3/17/2020		0.0017 (J)				
3/18/2020			<0.03		0.0024 (J)	
3/19/2020				0.013 (J)		0.0022 (J)
3/24/2020	0.0033 (J)					
8/26/2020		0.0032 (J)				
9/22/2020	0.0034 (J)	0.0029 (J)				
9/23/2020				0.014 (J)	0.0024 (J)	0.0016 (J)
9/25/2020			<0.03			
2/8/2021	0.0032 (J)					
2/10/2021			<0.03			0.0039 (J)
2/12/2021				0.01 (J)	0.0025 (J)	
3/2/2021	0.0031 (J)	0.0033 (J)	<0.03			
3/3/2021				0.012 (J)	0.0025 (J)	0.0016 (J)
8/19/2021			<0.03	0.013 (J)	0.0023 (J)	
8/20/2021		0.0028 (J)				
8/26/2021	0.0032 (J)					
8/27/2021						0.0058 (J)
2/8/2022		0.0031 (J)				
2/9/2022				0.013 (J)	0.0027 (J)	0.006 (J)
2/10/2022	0.0036 (J)		<0.03			
8/30/2022	0.0035 (J)	0.0025 (J)		0.013 (J)		0.0044 (J)
8/31/2022			<0.03		<0.03	
2/7/2023		0.0022 (J)		0.006 (J)	0.0029 (J)	0.0047 (J)
2/8/2023			<0.03			
2/9/2023	0.0036 (J)					
8/15/2023	<0.03	<0.03	<0.03	0.0079 (J)	0.002 (J)	<0.03

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.01		
6/2/2016	<0.03	0.018			
7/25/2016	<0.03		0.0132 (J)		
7/26/2016		0.0221 (J)			
9/1/2016				0.0077 (J)	
9/14/2016			0.012 (J)		
9/15/2016		0.0197 (J)			
9/19/2016	<0.03				
11/1/2016	<0.03	0.0194 (J)	0.0115 (J)		
11/16/2016				0.0075 (J)	
1/11/2017		0.0177 (J)	0.0085 (J)		
1/16/2017	<0.03				
2/21/2017	<0.03				
2/27/2017				0.0084 (J)	
3/1/2017			0.0114 (J)		
3/2/2017		0.0185 (J)			
4/26/2017	<0.03	0.0183 (J)	0.0092 (J)		
5/8/2017				0.0087 (J)	
6/28/2017		0.0173 (J)	0.0085 (J)		
6/30/2017	<0.03				
7/13/2017				0.0104 (J)	
10/11/2017				0.0099 (J)	
3/27/2018	0.0011 (J)				
3/28/2018		0.02 (J)	0.013 (J)		
4/4/2018				0.012 (J)	
6/7/2018		0.02 (J)			
6/8/2018			0.012 (J)		
6/11/2018	0.0012 (J)				
9/19/2018				0.011 (J)	
10/1/2018		0.02 (J)	0.011 (J)		
10/2/2018	<0.03				
2/26/2019	0.0011 (J)				
2/27/2019		0.021 (J)	0.014 (J)		
4/1/2019	0.001 (J)	0.021 (J)	0.013 (J)		
8/21/2019				0.0076 (J)	
9/25/2019	0.0011 (J)	0.02 (J)	0.01 (J)		
10/9/2019				0.0078 (J)	
2/11/2020			0.013 (J)		
2/12/2020	0.0013 (J)	0.019 (J)			
3/17/2020				0.0071 (J)	
3/19/2020	0.0012 (J)	0.023 (J)	0.014 (J)		
7/6/2020				0.011 (J)	
8/27/2020					0.0048 (J)
8/28/2020				0.012 (J)	
9/22/2020					0.0046 (J)
9/23/2020		0.023 (J)	0.013 (J)	0.013 (J)	
9/24/2020	0.0011 (J)				
10/7/2020				0.011 (J)	0.0041 (J)
11/12/2020				0.014 (J)	0.0044 (J)
2/10/2021		0.023 (J)	0.015 (J)		
2/11/2021	0.0012 (J)				
3/1/2021	0.0011 (J)				0.0043 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.013 (J)	
3/3/2021		0.024 (J)	0.017 (J)		
8/19/2021	0.0012 (J)	0.023 (J)			
8/20/2021					0.0043 (J)
8/27/2021			0.026 (J)	0.014 (J)	
2/9/2022		0.026 (J)	0.021 (J)	0.014 (J)	0.0042 (J)
2/11/2022	0.0014 (J)				
8/31/2022	0.0012 (J)	0.021 (J)	0.022 (J)	0.015 (J)	0.0037 (J)
2/8/2023	0.0011 (J)	0.023 (J)	0.018 (J)		
2/10/2023				0.011 (J)	0.0033 (J)
8/15/2023		0.023 (J)		0.012 (J)	0.004 (J)
8/16/2023	<0.03		0.025 (J)		



# Time Series

Constituent: Mercury (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.0002	<0.0002
6/7/2016				9.5E-05 (J)		
7/27/2016				<0.0002	<0.0002	<0.0002
8/30/2016	<0.0002					
8/31/2016		<0.0002	<0.0002			
9/16/2016				<0.0002		<0.0002
9/19/2016					<0.0002	
11/3/2016				<0.0002	<0.0002	<0.0002
11/14/2016	<0.0002		<0.0002			
11/15/2016		<0.0002				
1/11/2017				<0.0002	<0.0002	<0.0002
2/24/2017	<0.0002					
2/27/2017			<0.0002			
2/28/2017		<0.0002				
3/1/2017					<0.0002	<0.0002
3/2/2017				<0.0002		
4/26/2017					<0.0002	<0.0002
5/2/2017				<0.0002		
5/8/2017	<0.0002	<0.0002				
5/9/2017			<0.0002			
6/28/2017					<0.0002	<0.0002
6/29/2017				<0.0002		
7/11/2017	<0.0002					
7/13/2017		<0.0002	<0.0002			
10/10/2017	<0.0002	<0.0002	<0.0002			
3/28/2018				<0.0002	<0.0002	<0.0002
4/2/2018	<0.0002					
4/3/2018			<0.0002			
4/4/2018		<0.0002				
9/19/2018	5.3E-05 (J)	6E-05 (J)	7.1E-05 (J)			
9/25/2018				<0.0002	<0.0002	<0.0002
3/5/2019				<0.0002		<0.0002
3/6/2019					<0.0002	
8/20/2019	<0.0002	<0.0002	<0.0002			
2/11/2020				<0.0002	<0.0002	<0.0002
8/27/2020	<0.0002	<0.0002				
8/28/2020			<0.0002			
2/9/2021					<0.0002	<0.0002
3/3/2021				<0.0002	<0.0002	<0.0002
8/19/2021	<0.0002	<0.0002	<0.0002			
8/26/2021						<0.0002
8/27/2021				<0.0002	<0.0002	
2/8/2022	<0.0002					
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/30/2022				<0.0002	<0.0002	<0.0002
8/31/2022	<0.0002	<0.0002	<0.0002			
2/7/2023				0.00018 (J)	0.00013 (J)	0.00017 (J)
2/8/2023	<0.0002	<0.0002				
2/9/2023			<0.0002			
8/15/2023	0.00014 (J)	<0.0002	<0.0002	<0.0002	0.00014 (J)	0.00015 (J)

# Time Series

Constituent: Mercury (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.0002	<0.0002
6/7/2016	9.6E-05 (J)	9.6E-05 (J)				
7/26/2016					<0.0002	<0.0002
7/27/2016	<0.0002					
7/28/2016		<0.0002				
9/14/2016					<0.0002	<0.0002
9/19/2016	<0.0002	<0.0002				
11/2/2016	<0.0002				<0.0002	<0.0002
11/3/2016		<0.0002				
1/12/2017						<0.0002
1/13/2017	<0.0002	<0.0002			<0.0002	
3/6/2017	<0.0002	<0.0002			<0.0002	
3/7/2017						<0.0002
4/26/2017	<0.0002	<0.0002				
5/1/2017					<0.0002	<0.0002
6/27/2017						<0.0002
6/29/2017	<0.0002	<0.0002			<0.0002	
10/11/2017			<0.0002			
10/12/2017				<0.0002		
11/20/2017			7E-05 (J)	8E-05 (J)		
1/10/2018				<0.0002		
1/11/2018			<0.0002			
2/19/2018				<0.0002		
2/20/2018			<0.0002			
3/29/2018	<0.0002	<0.0002			<0.0002	<0.0002
4/3/2018			<0.0002	<0.0002		
6/28/2018			<0.0002	3.6E-05 (J)		
8/7/2018			<0.0002	<0.0002		
9/24/2018			<0.0002	<0.0002		
9/25/2018	<0.0002	<0.0002				
9/26/2018					<0.0002	<0.0002
3/4/2019					<0.0002	<0.0002
3/5/2019	<0.0002	<0.0002				
8/21/2019			<0.0002	<0.0002		
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/8/2021						<0.0002
2/9/2021	<0.0002	<0.0002			<0.0002	
2/10/2021			<0.0002	<0.0002		
3/2/2021						<0.0002
3/3/2021	<0.0002				<0.0002	
3/4/2021		<0.0002	<0.0002	<0.0002		
8/26/2021			<0.0002		<0.0002	<0.0002
8/27/2021	<0.0002					
9/1/2021		<0.0002				
9/3/2021				0.00012 (J)		
2/8/2022			<0.0002	0.00013 (J)		
2/9/2022	<0.0002	<0.0002				
2/10/2022						<0.0002
2/11/2022					<0.0002	
8/30/2022		<0.0002				<0.0002
8/31/2022	<0.0002		<0.0002	0.00064	<0.0002	
2/7/2023	0.00015 (J)	0.00017 (J)	<0.0002			<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/8/2023				<0.0002		
2/9/2023					<0.0002	
8/15/2023	<0.0002	<0.0002	<0.0002	0.00037	0.00013 (J)	0.00015 (J)

# Time Series

Constituent: Mercury (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.0002				
9/11/2007		<0.0002				
3/20/2008		<0.0002				
8/27/2008		<0.0002				
3/3/2009		<0.0002				
11/18/2009		<0.0002				
3/3/2010		<0.0002				
9/8/2010		<0.0002				
3/10/2011		<0.0002				
9/8/2011		<0.0002				
3/5/2012		<0.0002				
9/10/2012		<0.0002				
2/6/2013		<0.0002				
8/12/2013		<0.0002				
2/5/2014		<0.0002				
8/5/2014		<0.0002				
2/4/2015		<0.0002				
8/3/2015		<0.0002				
2/16/2016		1.36E-05 (J)				
6/1/2016				<0.0002	<0.0002	
6/2/2016	<0.0002		<0.0002			
7/25/2016					<0.0002	
7/26/2016	<0.0002		<0.0002	<0.0002		
8/31/2016		<0.0002				
9/13/2016				<0.0002	<0.0002	
9/14/2016	<0.0002					<0.0002
9/15/2016			<0.0002			
11/1/2016			<0.0002	<0.0002		
11/2/2016			<0.0002			
11/4/2016	<0.0002				<0.0002	<0.0002
11/28/2016		<0.0002				
12/15/2016						<0.0002
1/10/2017			<0.0002			
1/11/2017				<0.0002		
1/12/2017	<0.0002					
1/16/2017					<0.0002	<0.0002
2/22/2017		<0.0002				
3/2/2017				<0.0002	<0.0002	
3/3/2017						<0.0002
3/7/2017	<0.0002					
3/8/2017			<0.0002			
4/26/2017			<0.0002			
4/27/2017				<0.0002	<0.0002	
4/28/2017						<0.0002
5/2/2017	<0.0002					
5/8/2017		<0.0002				
5/26/2017						<0.0002
6/27/2017	<0.0002			<0.0002	<0.0002	
6/28/2017						<0.0002
6/30/2017			<0.0002			
7/17/2017		<0.0002				
10/16/2017		<0.0002				

# Time Series

Constituent: Mercury (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.0002				
3/27/2018			<0.0002		<0.0002	
3/28/2018						<0.0002
3/29/2018	<0.0002			<0.0002		
8/6/2018		<0.0002				
9/26/2018	<0.0002					
2/25/2019		7.4E-05 (J)				
2/26/2019			6.1E-05 (J)			
2/27/2019				5.1E-05 (J)	5.4E-05 (J)	<0.0002
3/4/2019	<0.0002					
3/28/2019				4E-05 (J)	<0.0002	
3/29/2019			<0.0002			<0.0002
6/12/2019		<0.0002				
8/19/2019		<0.0002				
9/24/2019				<0.0002	<0.0002	<0.0002
9/25/2019			<0.0002			
10/8/2019		<0.0002				
2/10/2020				<0.0002	<0.0002	
2/11/2020						<0.0002
2/12/2020	<0.0002		<0.0002			
5/6/2020		<0.0002				
8/26/2020		<0.0002				
9/22/2020		<0.0002				
2/8/2021	<0.0002					
2/10/2021			<0.0002			<0.0002
2/12/2021				<0.0002	<0.0002	
3/2/2021	<0.0002	<0.0002				
8/20/2021		<0.0002				
8/26/2021	<0.0002					
2/8/2022		<0.0002				
2/9/2022				<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002		<0.0002			
8/30/2022	<0.0002	<0.0002		<0.0002		<0.0002
8/31/2022			<0.0002		<0.0002	
2/7/2023		0.00013 (J)		<0.0002	<0.0002	<0.0002
2/8/2023			<0.0002			
2/9/2023	<0.0002					
8/15/2023	0.00014 (J)	<0.0002	0.00016 (J)	0.00015 (J)	0.00015 (J)	0.00015 (J)

# Time Series

Constituent: Mercury (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.0002		
6/2/2016	<0.0002	<0.0002			
7/25/2016	<0.0002		<0.0002		
7/26/2016		<0.0002			
9/1/2016				<0.0002	
9/14/2016			<0.0002		
9/15/2016		<0.0002			
9/19/2016	<0.0002				
11/1/2016	<0.0002	<0.0002	<0.0002		
11/16/2016				<0.0002	
1/11/2017		<0.0002	<0.0002		
1/16/2017	<0.0002				
2/21/2017	<0.0002				
2/27/2017				<0.0002	
3/1/2017			<0.0002		
3/2/2017		<0.0002			
4/26/2017	<0.0002	<0.0002	<0.0002		
5/8/2017				<0.0002	
6/28/2017		<0.0002	<0.0002		
6/30/2017	<0.0002				
7/13/2017				<0.0002	
10/11/2017				<0.0002	
3/27/2018	<0.0002				
3/28/2018		<0.0002	<0.0002		
4/4/2018				<0.0002	
9/19/2018				7E-05 (J)	
2/26/2019	6.8E-05 (J)				
2/27/2019		6.2E-05 (J)	6.1E-05 (J)		
4/1/2019	8.2E-05 (J)	9.6E-05 (J)	8.4E-05 (J)		
8/21/2019				<0.0002	
9/25/2019	<0.0002	<0.0002	<0.0002		
2/11/2020			<0.0002		
2/12/2020	<0.0002	<0.0002			
7/6/2020				<0.0002	
8/27/2020					<0.0002
8/28/2020				<0.0002	
11/12/2020				<0.0002	<0.0002
2/10/2021		<0.0002	<0.0002		
2/11/2021	<0.0002				
8/20/2021					<0.0002
8/27/2021				<0.0002	
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002
2/11/2022	<0.0002				
8/31/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/8/2023	<0.0002	<0.0002	<0.0002		
2/10/2023				<0.0002	<0.0002
8/15/2023		0.00014 (J)		<0.0002	<0.0002
8/16/2023	<0.0002		<0.0002		

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.01	<0.01
6/7/2016				<0.01		
7/27/2016				<0.01	<0.01	<0.01
8/30/2016	<0.01					
8/31/2016		<0.01	0.0024 (J)			
9/16/2016				<0.01		<0.01
9/19/2016					<0.01	
11/3/2016				<0.01	<0.01	<0.01
11/14/2016	<0.01		<0.01			
11/15/2016		<0.01				
1/11/2017				<0.01	<0.01	<0.01
2/24/2017	<0.01					
2/27/2017			0.0018 (J)			
2/28/2017		0.0005 (J)				
3/1/2017					<0.01	<0.01
3/2/2017				<0.01		
4/26/2017					<0.01	<0.01
5/2/2017				<0.01		
5/8/2017	<0.01	<0.01				
5/9/2017			0.0015 (J)			
6/28/2017					<0.01	<0.01
6/29/2017				<0.01		
7/11/2017	<0.01					
7/13/2017		<0.01	0.0015 (J)			
10/10/2017	<0.01	<0.01	0.0015 (J)			
3/28/2018				<0.01	<0.01	<0.01
4/2/2018	<0.01					
4/3/2018			<0.01			
4/4/2018		<0.01				
9/19/2018	<0.01	<0.01	<0.01			
3/5/2019				<0.01		<0.01
3/6/2019					<0.01	
8/20/2019	<0.01	<0.01	0.0011 (J)			
10/8/2019	<0.01	<0.01				
10/9/2019			0.0012 (J)			
2/11/2020				<0.01	<0.01	<0.01
3/17/2020	<0.01	<0.01	0.0016 (J)			
3/24/2020				<0.01	<0.01	<0.01
8/27/2020	<0.01	<0.01				
8/28/2020			0.0013 (J)			
9/22/2020	<0.01	<0.01				
9/23/2020			0.0011 (J)	<0.01	<0.01	<0.01
2/9/2021					<0.01	<0.01
3/1/2021	<0.01	<0.01	0.0012 (J)			
3/3/2021				<0.01	<0.01	<0.01
8/19/2021	<0.01	<0.01	0.0012 (J)			
8/26/2021						<0.01
8/27/2021				<0.01	<0.01	
2/8/2022	<0.01					
2/9/2022		<0.01	0.0012 (J)	<0.01	<0.01	<0.01
8/30/2022				<0.01	<0.01	<0.01
8/31/2022	<0.01	<0.01	0.0011 (J)			

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
2/7/2023				<0.01	<0.01	<0.01
2/8/2023	<0.01	<0.01				
2/9/2023			0.00097 (J)			
8/15/2023	<0.01	<0.01	0.0011 (J)	<0.01	<0.01	<0.01



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.01	0.0035 (J)
6/7/2016	<0.01	<0.01				
7/26/2016					<0.01	0.0042 (J)
7/27/2016	<0.01					
7/28/2016		<0.01				
9/14/2016					<0.01	0.0041 (J)
9/19/2016	<0.01	<0.01				
11/2/2016	<0.01				<0.01	0.0039 (J)
11/3/2016		<0.01				
1/12/2017						0.0041 (J)
1/13/2017	<0.01	<0.01			<0.01	
3/6/2017	<0.01	0.0007 (J)			<0.01	
3/7/2017						0.0047 (J)
4/26/2017	<0.01	0.0008 (J)				
5/1/2017					<0.01	0.0045 (J)
6/27/2017						0.004 (J)
6/29/2017	<0.01	<0.01			<0.01	
10/11/2017			0.0094 (J)			
10/12/2017				<0.01		
11/20/2017			0.0081 (J)	<0.01		
1/10/2018				<0.01		
1/11/2018			0.0074 (J)			
2/19/2018				<0.01		
2/20/2018			<0.01			
3/29/2018	<0.01	<0.01			<0.01	<0.01
4/3/2018			0.006 (J)	<0.01		
6/28/2018			0.005 (J)	<0.01		
8/7/2018			0.0045 (J)	<0.01		
9/24/2018			0.0035 (J)	<0.01		
3/4/2019					<0.01	<0.01
3/5/2019	<0.01	<0.01				
8/21/2019			0.0021 (J)	<0.01		
10/9/2019			0.0018 (J)	<0.01		
2/12/2020	<0.01	<0.01	0.0025 (J)	<0.01	<0.01	0.0011 (J)
3/24/2020	<0.01	<0.01		<0.01		0.0011 (J)
3/25/2020			0.002 (J)		<0.01	
9/22/2020					<0.01	0.00099 (J)
9/24/2020	<0.01	<0.01	0.0016 (J)	<0.01		
2/8/2021						0.0011 (J)
2/9/2021	<0.01	<0.01			<0.01	
2/10/2021			0.0013 (J)	<0.01		
3/2/2021						<0.01
3/3/2021	<0.01				<0.01	
3/4/2021		<0.01	0.0014 (J)	<0.01		
8/26/2021			0.0027 (J)		<0.01	0.001 (J)
8/27/2021	<0.01					
9/1/2021		<0.01				
9/3/2021				<0.01		
2/8/2022			0.0035 (J)	<0.01		
2/9/2022	<0.01	<0.01				
2/10/2022						0.00096 (J)
2/11/2022					<0.01	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
8/30/2022		<0.01				0.00089 (J)
8/31/2022	<0.01		0.0036 (J)	<0.01	<0.01	
2/7/2023	<0.01	<0.01	0.0045 (J)			0.00095 (J)
2/8/2023				<0.01		
2/9/2023					<0.01	
8/15/2023	<0.01	<0.01	0.0061 (J)	<0.01	<0.01	0.0009 (J)

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				0.014 (J)	0.012 (J)	
6/2/2016	<0.01		<0.01			
7/25/2016					0.0098 (J)	
7/26/2016	<0.01		<0.01	0.0132		
8/31/2016		<0.01				
9/13/2016				0.0127	0.01 (J)	
9/14/2016	<0.01					0.0039 (J)
9/15/2016			<0.01			
11/1/2016				0.0092 (J)		
11/2/2016			<0.01			
11/4/2016	<0.01				0.01	0.0077 (J)
11/28/2016		<0.01				
12/15/2016						0.0066 (J)
1/10/2017			<0.01			
1/11/2017				0.0093 (J)		
1/12/2017	<0.01					
1/16/2017					0.0086 (J)	0.0056 (J)
2/22/2017		<0.01				
3/2/2017				0.0099 (J)	0.01	
3/3/2017						0.0049 (J)
3/7/2017	<0.01					
3/8/2017			<0.01			
4/26/2017			<0.01			
4/27/2017				0.0103	0.0101	
4/28/2017						0.004 (J)
5/2/2017	<0.01					
5/8/2017		<0.01				
5/26/2017						0.0029 (J)
6/27/2017	<0.01			0.0097 (J)	0.0093 (J)	
6/28/2017						0.0036 (J)
6/30/2017			<0.01			
7/17/2017		<0.01				
10/16/2017		<0.01				
2/19/2018		<0.01				
3/27/2018			<0.01		0.0074 (J)	
3/28/2018						0.0038 (J)
3/29/2018	<0.01			0.0076 (J)		
6/5/2018				0.0092 (J)		
6/6/2018					0.0073 (J)	
6/7/2018						0.004 (J)
6/8/2018			<0.01			
8/6/2018		<0.01				
10/1/2018			<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)
2/26/2019			<0.01			
2/27/2019				0.0087 (J)	0.0078 (J)	0.0041 (J)
3/4/2019	<0.01					
3/28/2019				0.0092 (J)	0.0082 (J)	
3/29/2019			<0.01			0.0041 (J)
8/19/2019		<0.01				
9/24/2019				0.0072 (J)	0.0074 (J)	0.0054 (J)
9/25/2019			<0.01			
2/10/2020				0.0087 (J)	0.0062 (J)	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/11/2020						0.0057 (J)
2/12/2020	<0.01		<0.01			
3/18/2020			<0.01		0.0056 (J)	
3/19/2020				0.0088 (J)		0.0046 (J)
3/24/2020	<0.01					
8/26/2020		<0.01				
9/22/2020	<0.01					
9/23/2020				0.008 (J)	0.0059 (J)	0.0071 (J)
9/25/2020			<0.01			
2/8/2021	<0.01					
2/10/2021			<0.01			0.0041 (J)
2/12/2021				0.008 (J)	0.0056 (J)	
3/2/2021	<0.01		<0.01			
3/3/2021				0.0088 (J)	0.0049 (J)	0.0074 (J)
8/19/2021			<0.01	0.0083 (J)	0.005 (J)	
8/20/2021		<0.01				
8/26/2021	<0.01					
8/27/2021						0.0048 (J)
2/8/2022		<0.01				
2/9/2022				0.0093 (J)	0.0055 (J)	0.0057 (J)
2/10/2022	<0.01		<0.01			
8/30/2022	<0.01	<0.01		0.0094 (J)		0.0068 (J)
8/31/2022			<0.01		0.0055 (J)	
2/7/2023		<0.01		<0.01	<0.01	0.0061 (J)
2/8/2023			<0.01			
2/9/2023	<0.01					
8/15/2023	<0.01	<0.01	<0.01	0.0098 (J)	0.0047 (J)	0.0071 (J)

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.0055 (J)		
6/2/2016	<0.01	0.0093 (J)			
7/25/2016	<0.01		0.0037 (J)		
7/26/2016		0.0113			
9/1/2016				<0.01	
9/14/2016			0.0034 (J)		
9/15/2016		0.0112			
9/19/2016	<0.01				
11/1/2016	<0.01	0.0099 (J)	0.0025 (J)		
11/16/2016				<0.01	
1/11/2017		0.0093 (J)	0.0033 (J)		
1/16/2017	<0.01				
2/21/2017	<0.01				
2/27/2017				<0.01	
3/1/2017			0.0044 (J)		
3/2/2017		0.0103			
4/26/2017	<0.01	0.01	0.0075 (J)		
5/8/2017				0.0008 (J)	
6/28/2017		0.0102	0.008 (J)		
6/30/2017	<0.01				
7/13/2017				0.0015 (J)	
10/11/2017				0.002 (J)	
3/27/2018	<0.01				
3/28/2018		0.011	0.0025 (J)		
4/4/2018				0.0021 (J)	
6/7/2018		0.011			
6/8/2018			0.0041 (J)		
6/11/2018	<0.01				
9/19/2018				0.0039 (J)	
10/1/2018		0.012	0.0037 (J)		
10/2/2018	<0.01				
2/26/2019	<0.01				
2/27/2019		0.011	0.0027 (J)		
4/1/2019	<0.01	0.012	0.0021 (J)		
8/21/2019				0.0012 (J)	
9/25/2019	<0.01	0.012	0.0087 (J)		
10/9/2019				0.0013 (J)	
2/11/2020			0.003 (J)		
2/12/2020	<0.01	0.013			
3/17/2020				0.0015 (J)	
3/19/2020	<0.01	0.013	0.0043 (J)		
7/6/2020				0.0026 (J)	
8/27/2020					<0.01
8/28/2020				0.003 (J)	
9/22/2020					<0.01
9/23/2020		0.012	0.01	0.0025 (J)	
9/24/2020	<0.01				
10/7/2020				0.0024 (J)	<0.01
11/12/2020				0.0019 (J)	<0.01
2/10/2021		0.014	0.0038 (J)		
2/11/2021	<0.01				
3/1/2021	<0.01				<0.01

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.0023 (J)	
3/3/2021		0.013	0.0036 (J)		
8/19/2021	<0.01	0.013			
8/20/2021					<0.01
8/27/2021			0.0099 (J)	0.0022 (J)	
2/9/2022		0.013	0.0087 (J)	0.0021 (J)	<0.01
2/11/2022	<0.01				
8/31/2022	<0.01	0.011	0.0068 (J)	0.0017 (J)	<0.01
2/8/2023	<0.01	0.012	0.0065 (J)		
2/10/2023				0.0029 (J)	0.00083 (J)
8/15/2023		0.012		0.0031 (J)	<0.01
8/16/2023	<0.01		0.012		

# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					6.17	5.71
6/7/2016				5.62		
7/27/2016				5.59	6.14	5.46
8/30/2016	5.75					
8/31/2016		6.01	7.15			
9/16/2016				5.58		
9/19/2016					6.04	5.59
11/3/2016				5.59	5.97	5.39
11/14/2016	5.59		6.96			
11/15/2016		5.91				
1/11/2017				5.59	6.05	5.48
2/24/2017	5.49					
2/27/2017			6.79			
2/28/2017		5.85				
3/1/2017					5.94	5.41
3/2/2017				5.54		
4/26/2017					5.99	5.4
5/2/2017				5.47		
5/8/2017	5.58	5.91				
5/9/2017			6.9			
6/28/2017					6	5.36
6/29/2017				5.56		
7/11/2017	5.58					
7/13/2017		5.8	6.77			
10/4/2017				5.57		5.32
10/5/2017					6.11	
10/10/2017	5.49	5.76	6.9			
3/28/2018				5.59	6.1	5.34
4/2/2018	6.3 (O)					
4/3/2018			6.44			
4/4/2018		5.77				
6/7/2018					5.98	
6/11/2018				5.58		5.28
9/19/2018	5.48	5.77	6.47			
9/25/2018				5.59	5.81	4.86
3/5/2019				5.48		5.26
3/6/2019					5.99	
3/27/2019	5.83	6.1	7.18			
4/2/2019				5.74		
4/3/2019					6.29	5.47
8/20/2019	5.58	5.78	6.48			
9/25/2019				5.49		
9/26/2019					6.04	5.2
10/8/2019	5.59	5.84				
10/9/2019			6.55			
2/11/2020				5.58	6.07	5.3
3/17/2020	5.57	5.9	6.69			
3/24/2020				5.57	5.98	5.33
8/27/2020	4.88	5.75				
8/28/2020			6.84			
9/22/2020	5.46	5.53				
9/23/2020			6.57	5.58	6.01	5.29

# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
2/9/2021					6.12	5.43
3/1/2021	5.48	5.76	6.5			
3/3/2021				5.52	5.89	5.31
8/19/2021	5.5	5.73	6.13			
8/26/2021						4.4
8/27/2021				5.27	5.4	
2/8/2022	5.4					
2/9/2022		5.73	6.15	5.53	5.98	5.28
8/30/2022				4.68	5.82	5.18
8/31/2022	5.32	5.77	6.56			
2/7/2023				5.47	6	5.03
2/8/2023	5.22	5.6				
2/9/2023			6.47			
8/15/2023	5.69	5.79	6.97	5.54	5.82	5.2



# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					6.36	7.67
6/7/2016	5.77	6.1				
7/26/2016					6.22	7.66
7/27/2016	5.79					
7/28/2016		6.12				
9/14/2016					6.23	7.6
9/19/2016	5.73	6.12				
11/2/2016	5.67				6.08	7.35
11/3/2016		6.07				
1/12/2017						7.49
1/13/2017	5.79	6.41			6.19	
3/6/2017	5.63	6.34			6.2	
3/7/2017						7.43
4/26/2017	5.66	6.32				
5/1/2017					6.21	7.22
6/27/2017						7.32
6/29/2017	5.85	6.47			6.21	
10/3/2017		6.56				7.48
10/4/2017	5.83					
10/5/2017					6.16	
10/11/2017			6.4			
10/12/2017				5.43		
11/20/2017			6.33	5.1		
1/10/2018				4.97		
1/11/2018			6.29			
2/19/2018				5.6		
2/20/2018			7.22			
3/29/2018	5.93	6.75			6.09	7.02
4/3/2018			6.87	5.84		
6/5/2018		6.09				
6/6/2018	5.86					7.43
6/7/2018					6.12	
6/28/2018			6.18	5.24		
8/7/2018			6.08	5.18		
9/24/2018			5.81	5.14		
9/25/2018	5.84	6.67				
9/26/2018					5.84	7.13
3/4/2019					6.18	7.46
3/5/2019	6.07	7.22				
3/26/2019				5.3		
3/27/2019			5.84			
4/2/2019		6.94				
4/3/2019	5.71				6.43	7.11
8/21/2019			5.96	5.26		
9/24/2019		6.87				6.93
9/25/2019	5.86				6.2	
10/9/2019			5.81	5.22		
2/12/2020	6	7.13	5.97	5.3	6.15	7.52
3/24/2020	5.86	6.35		5.29		7.34
3/25/2020			5.78		6.26	
9/22/2020					5.8	7.19
9/24/2020	5.8	6.7	5.7	5.43		

# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/9/2021	5.86	6.95			6.06	
2/10/2021			5.8	5.19		
3/2/2021						7.15
3/3/2021	5.89				6.21	
3/4/2021		6.8	5.54	5.23		
8/26/2021			6.91		5.82	7.16
8/27/2021	5.57					
9/1/2021		6.65				
9/3/2021				4.75		
2/8/2022			5.78	5.26		
2/9/2022	5.91	6.84				
2/10/2022						6.99
2/11/2022					5.95	
8/30/2022		6.58				7.4
8/31/2022	5.38		5.3	4.53	5.5	
2/7/2023	5.63	6.82	5.49			6.64
2/8/2023				5.71		
2/9/2023					6.23	
8/15/2023	7	6.84	5.78	5	5.99	7.34

# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
8/27/2008		6.53				
3/3/2009		6.35				
11/18/2009		6.47				
3/3/2010		6.53				
3/10/2011		5.83				
9/8/2011		5.69				
3/5/2012		6.27				
9/10/2012		6.23				
2/6/2013		7.56				
8/12/2013		6.68				
2/5/2014		6.32				
8/3/2015		6.13 (D)				
2/16/2016		5.64				
6/1/2016				7.46	6.33	
6/2/2016	5.75		5.46			
7/25/2016					6.21	
7/26/2016	5.72		5.45	7.43		
9/13/2016				7.44	6.16	7.41
9/14/2016	5.74					
9/15/2016			5.45			
11/1/2016				7.24		
11/2/2016			5.41			
11/4/2016	5.61				6.29	7.12
11/28/2016		6.23				
12/15/2016						7.24
1/10/2017			5.37			
1/11/2017				7.3		
1/12/2017	5.71					
1/16/2017					6.29	7.24
2/22/2017		6.21				
3/2/2017				7.23	6.28	
3/3/2017						7.22
3/7/2017	5.66					
3/8/2017			5.41			
4/26/2017			5.02			
4/27/2017				6.99	6.09	
4/28/2017						7.21
5/2/2017	5.65					
5/8/2017		6.12				
5/26/2017						7.13
6/27/2017	5.7			6.87	6.21	
6/28/2017						7.06
6/30/2017			5.39			
7/17/2017		6.03				
10/3/2017	5.79			6.81	5.98	6.99
10/5/2017			5.49			
10/16/2017		6.12				
2/19/2018		6.13				
3/27/2018			5.47		6.25	
3/28/2018						7.3
3/29/2018	5.63			7.38		
6/5/2018				7.16		

# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/6/2018					6.17	
6/7/2018	5.63					7.29
6/8/2018			5.45			
8/6/2018		6.01				
9/26/2018	5.63					
10/1/2018			5.39	6.8	5.9	7.07
2/25/2019		6.51				
2/26/2019			5.46			
2/27/2019				6.84	5.8	7.27
3/4/2019	5.75					
3/28/2019				6.99	6.15	
3/29/2019			5.34			7.06
4/3/2019	5.63					
6/12/2019		6.3				
8/19/2019		6.23				
9/24/2019	5.6			7.07	6.23	7.01
9/25/2019			5.19			
10/8/2019		6.28				
2/10/2020				7.2	6.1	
2/11/2020						7.38
2/12/2020	5.83		5.48			
3/17/2020		6.14				
3/18/2020			5.38		6.19	
3/19/2020				7.03		7.22
3/24/2020	5.81					
5/6/2020		6.24				
8/26/2020		5.67				
9/22/2020	5.99	5.78				
9/23/2020				7.15	6.01	7.22
9/25/2020			5.44			
2/8/2021	5.67					
2/10/2021			5.35			7.29
2/12/2021				7.14	6.21	
3/2/2021	5.63	5.42	5.49			
3/3/2021				7.2	5.38	7.92
8/19/2021			7.32	6.32	6.38	
8/20/2021		5.86				
8/26/2021	5.51					
8/27/2021						7.14
2/8/2022		5.83				
2/9/2022				7.12	6.24	5.89
2/10/2022	5.14		4.5			
8/30/2022	5	5.39		7.2		7.04
8/31/2022			5.15		5.64	
2/7/2023		5.94		7.86	6.53	6.94
2/8/2023			5.39			
2/9/2023	5.9					
8/15/2023	5.58	5.3	5.03	6.98	5.88	6.96

# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			7.72		
6/2/2016	5.75	7.84			
7/25/2016	5.82		7.74		
7/26/2016		7.88			
9/1/2016				6.19	
9/14/2016			7.65		
9/15/2016		7.74			
9/19/2016	5.78 (D)				
11/1/2016	5.62	7.75	7.7		
11/16/2016				6.05	
1/11/2017		7.66	7.53		
1/16/2017	5.72				
2/21/2017	5.67				
2/27/2017				6.01	
3/1/2017			7.42		
3/2/2017		7.68			
4/26/2017	5.56	7.45	7.4		
5/8/2017				6.1	
6/28/2017		7.65	7.5		
6/30/2017	5.72				
7/13/2017				6.07	
10/4/2017	5.87	7.49	7.45		
10/11/2017				5.93	
3/27/2018	5.83				
3/28/2018		7.91	7.74		
4/4/2018				6.01	
6/7/2018		7.69			
6/8/2018			7.64		
6/11/2018	5.69				
9/19/2018				6.09	
10/1/2018		7.39	7.47		
10/2/2018	5.39				
2/26/2019	5.77				
2/27/2019		7.55	7.54		
3/27/2019				6.2	
4/1/2019	5.62	7.87	7.74		
8/21/2019				5.82	
9/25/2019	5.69	7.64	7.47		
10/9/2019				5.96	
2/11/2020			7.09		
2/12/2020	5.8	7.83			
3/17/2020				5.99	
3/19/2020	6	7.65	7.31		
7/6/2020				6.89	
8/27/2020					5.8
8/28/2020				7.05	
9/22/2020					5.91
9/23/2020		7.57	7.37	6.81	
9/24/2020	5.67				
10/7/2020				7.06	5.87
2/10/2021		7.81	7.58		
2/11/2021	5.73				

# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/1/2021	5.78				5.84
3/2/2021				6.72	
3/3/2021		8.39	8.23		
8/19/2021		5.34			
8/20/2021					6.71
8/27/2021			7.39	6.83	
2/9/2022		7.97	7.66	6.98	5.99
2/11/2022	5.59				
8/31/2022	5.87	7.65	7.49	6.87	5.58
2/8/2023	6.43	7.88	7.73		
2/10/2023				7.32	6
8/15/2023		7.69		7.51	6.05
8/16/2023	5.55		7.39		

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.005	<0.005
6/7/2016				0.001 (J)		
7/27/2016				0.0012 (J)	<0.005	<0.005
8/30/2016	0.0017 (J)					
8/31/2016		<0.005	<0.005			
9/16/2016				0.0015 (J)		<0.005
9/19/2016					<0.005	
11/3/2016				0.0015 (J)	<0.005	<0.005
11/14/2016	<0.005		<0.005			
11/15/2016		<0.005				
1/11/2017				0.0014 (J)	<0.005	<0.005
2/24/2017	0.0011 (J)					
2/27/2017			<0.005			
2/28/2017		<0.005				
3/1/2017					<0.005	<0.005
3/2/2017				0.0017 (J)		
4/26/2017					<0.005	<0.005
5/2/2017				<0.005		
5/8/2017	<0.005	<0.005				
5/9/2017			<0.005			
6/28/2017					<0.005	<0.005
6/29/2017				<0.005		
7/11/2017	<0.005					
7/13/2017		<0.005	<0.005			
10/10/2017	<0.005	<0.005	<0.005			
3/28/2018				<0.005	<0.005	<0.005
4/2/2018	<0.005					
4/3/2018			<0.005			
4/4/2018		<0.005				
6/7/2018					<0.005	
6/11/2018				<0.005		<0.005
9/19/2018	<0.005	<0.005	<0.005			
9/25/2018				<0.005	<0.005	<0.005
3/5/2019				<0.005		<0.005
3/6/2019					<0.005	
4/2/2019				<0.005		
4/3/2019					<0.005	<0.005
8/20/2019	<0.005	<0.005	<0.005			
9/25/2019				<0.005		
9/26/2019					<0.005	<0.005
2/11/2020				<0.005	<0.005	<0.005
3/24/2020				<0.005	<0.005	<0.005
8/27/2020	<0.005	<0.005				
8/28/2020			<0.005			
9/23/2020				<0.005	<0.005	<0.005
2/9/2021					<0.005	<0.005
3/3/2021				<0.005	<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005			
8/26/2021						<0.005
8/27/2021				<0.005	<0.005	
2/8/2022	<0.005					
2/9/2022		<0.005	<0.005	<0.005	<0.005	<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005			
2/7/2023				<0.005	<0.005	<0.005
2/8/2023	<0.005	<0.005				
2/9/2023			<0.005			
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005



# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.005	<0.005
6/7/2016	<0.005	0.00048 (J)				
7/26/2016					0.0009 (J)	<0.005
7/27/2016	<0.005					
7/28/2016		<0.005				
9/14/2016					<0.005	<0.005
9/19/2016	<0.005	0.0014 (J)				
11/2/2016	<0.005				<0.005	<0.005
11/3/2016		<0.005				
1/12/2017						<0.005
1/13/2017	<0.005	<0.005			<0.005	
3/6/2017	<0.005	<0.005			<0.005	
3/7/2017						<0.005
4/26/2017	<0.005	<0.005				
5/1/2017					<0.005	<0.005
6/27/2017						<0.005
6/29/2017	<0.005	<0.005			<0.005	
10/11/2017			<0.005			
10/12/2017				<0.005		
11/20/2017			<0.005	0.0042 (J)		
1/10/2018				0.0043 (J)		
1/11/2018			<0.005			
2/19/2018				<0.005		
2/20/2018			<0.005			
3/29/2018	<0.005	<0.005			<0.005	<0.005
4/3/2018			<0.005	<0.005		
6/5/2018		<0.005				
6/6/2018	<0.005					<0.005
6/7/2018					<0.005	
6/28/2018			<0.005	0.0032 (J)		
8/7/2018			<0.005	0.0031 (J)		
9/24/2018			0.0015 (J)	0.0026 (J)		
9/25/2018	<0.005	<0.005				
9/26/2018					<0.005	<0.005
3/4/2019					<0.005	<0.005
3/5/2019	<0.005	<0.005				
4/2/2019		<0.005				
4/3/2019	<0.005				<0.005	<0.005
8/21/2019			<0.005	0.0024 (J)		
9/24/2019		<0.005				<0.005
9/25/2019	<0.005				<0.005	
10/9/2019			<0.005	0.0026 (J)		
2/12/2020	<0.005	<0.005	<0.005	0.002 (J)	<0.005	<0.005
3/24/2020	<0.005	<0.005		0.002 (J)		<0.005
3/25/2020			<0.005		<0.005	
9/22/2020					<0.005	<0.005
9/24/2020	<0.005	<0.005	<0.005	0.0016 (J)		
2/8/2021						<0.005
2/9/2021	<0.005	<0.005			<0.005	
2/10/2021			<0.005	<0.005		
3/2/2021						<0.005
3/3/2021	<0.005				0.0019 (J)	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		<0.005	<0.005	<0.005		
8/26/2021			<0.005		<0.005	<0.005
8/27/2021	<0.005					
9/1/2021		<0.005				
9/3/2021				<0.005		
2/8/2022			<0.005	0.0014 (J)		
2/9/2022	<0.005	<0.005				
2/10/2022						<0.005
2/11/2022					<0.005	
8/30/2022		<0.005				<0.005
8/31/2022	<0.005		<0.005	<0.005	<0.005	
2/7/2023	<0.005	<0.005	<0.005			<0.005
2/8/2023				<0.005		
2/9/2023					<0.005	
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.005				
9/11/2007		<0.005				
3/20/2008		<0.005				
8/27/2008		<0.005				
3/3/2009		<0.005				
11/18/2009		<0.005				
3/3/2010		<0.005				
9/8/2010		<0.005				
3/10/2011		<0.005				
9/8/2011		<0.005				
3/5/2012		<0.005				
9/10/2012		<0.005				
2/6/2013		<0.005				
8/12/2013		<0.005				
2/5/2014		<0.005				
8/5/2014		<0.005				
2/4/2015		<0.005				
8/3/2015		<0.005				
2/16/2016		<0.005				
6/1/2016				<0.005	<0.005	
6/2/2016	<0.005		0.0011 (J)			
7/25/2016					<0.005	
7/26/2016	0.0009 (J)		0.0016 (J)	<0.005		
8/31/2016		<0.005				
9/13/2016				<0.005	<0.005	
9/14/2016	<0.005					<0.005
9/15/2016			0.0014 (J)			
11/1/2016				<0.005		
11/2/2016			<0.005			
11/4/2016	<0.005				<0.005	<0.005
11/28/2016		<0.005				
12/15/2016						<0.005
1/10/2017			0.0012 (J)			
1/11/2017				<0.005		
1/12/2017	<0.005					
1/16/2017					<0.005	<0.005
2/22/2017		<0.005				
3/2/2017				<0.005	<0.005	
3/3/2017						<0.005
3/7/2017	<0.005					
3/8/2017			<0.005			
4/26/2017			<0.005			
4/27/2017				<0.005	<0.005	
4/28/2017						<0.005
5/2/2017	<0.005					
5/8/2017		<0.005				
5/26/2017						<0.005
6/27/2017	<0.005			<0.005	<0.005	
6/28/2017						<0.005
6/30/2017			<0.005			
7/17/2017		<0.005				
10/16/2017		<0.005				

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.005				
3/27/2018			<0.005		<0.005	
3/28/2018						<0.005
3/29/2018	<0.005			<0.005		
6/7/2018	<0.005					
8/6/2018		<0.005				
9/26/2018	<0.005					
2/25/2019		<0.005				
2/26/2019			<0.005			
2/27/2019				<0.005	<0.005	<0.005
3/4/2019	<0.005					
3/28/2019				<0.005	<0.005	
3/29/2019			0.0019 (J)			<0.005
4/3/2019	<0.005					
6/12/2019		<0.005				
8/19/2019		<0.005				
9/24/2019	<0.005			<0.005	<0.005	<0.005
9/25/2019			<0.005			
10/8/2019		<0.005				
2/10/2020				<0.005	<0.005	
2/11/2020						<0.005
2/12/2020	<0.005		<0.005			
3/17/2020		<0.005				
3/18/2020			<0.005		<0.005	
3/19/2020				<0.005		<0.005
3/24/2020	<0.005					
8/26/2020		<0.005				
9/22/2020	<0.005	<0.005				
9/23/2020				<0.005	<0.005	<0.005
9/25/2020			<0.005			
2/8/2021	<0.005					
2/10/2021			<0.005			<0.005
2/12/2021				<0.005	<0.005	
3/2/2021	<0.005	<0.005	<0.005			
3/3/2021				<0.005	<0.005	<0.005
8/19/2021			<0.005	<0.005	<0.005	
8/20/2021		<0.005				
8/26/2021	<0.005					
8/27/2021						<0.005
2/8/2022		<0.005				
2/9/2022				<0.005	<0.005	<0.005
2/10/2022	<0.005		0.0014 (J)			
8/30/2022	<0.005	<0.005		<0.005		<0.005
8/31/2022			<0.005		<0.005	
2/7/2023		<0.005		<0.005	<0.005	<0.005
2/8/2023			<0.005			
2/9/2023	<0.005					
8/15/2023	<0.005	<0.005	0.0014 (J)	<0.005	<0.005	<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.005		
6/2/2016	<0.005	<0.005			
7/25/2016	<0.005		<0.005		
7/26/2016		<0.005			
9/1/2016				<0.005	
9/14/2016			<0.005		
9/15/2016		<0.005			
9/19/2016	<0.005				
11/1/2016	<0.005	<0.005	<0.005		
11/16/2016				<0.005	
1/11/2017		<0.005	<0.005		
1/16/2017	<0.005				
2/21/2017	<0.005				
2/27/2017				<0.005	
3/1/2017			<0.005		
3/2/2017		<0.005			
4/26/2017	<0.005	<0.005	<0.005		
5/8/2017				<0.005	
6/28/2017		<0.005	<0.005		
6/30/2017	<0.005				
7/13/2017				<0.005	
10/11/2017				<0.005	
3/27/2018	<0.005				
3/28/2018		<0.005	<0.005		
4/4/2018				<0.005	
9/19/2018				<0.005	
2/26/2019	<0.005				
2/27/2019		<0.005	<0.005		
4/1/2019	<0.005	<0.005	<0.005		
8/21/2019				<0.005	
9/25/2019	<0.005	<0.005	<0.005		
2/11/2020			<0.005		
2/12/2020	<0.005	<0.005			
3/19/2020	<0.005	<0.005	<0.005		
7/6/2020				<0.005	
8/27/2020					<0.005
8/28/2020				<0.005	
9/23/2020		<0.005	<0.005		
9/24/2020	<0.005				
11/12/2020				<0.005	<0.005
2/10/2021		<0.005	<0.005		
2/11/2021	<0.005				
3/1/2021	<0.005				
3/3/2021		<0.005	<0.005		
8/19/2021	<0.005	<0.005			
8/20/2021					<0.005
8/27/2021			<0.005	<0.005	
2/9/2022		<0.005	<0.005	<0.005	<0.005
2/11/2022	<0.005				
8/31/2022	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023	<0.005	<0.005	<0.005		
2/10/2023				<0.005	<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/15/2023		<0.005		<0.005	<0.005
8/16/2023	<0.005		<0.005		

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					1.2	1.8
6/7/2016				4.4		
7/27/2016				4.7	1.7	1.9
8/30/2016	160					
8/31/2016		150	190			
9/16/2016				4.8		1.7
9/19/2016					1.8	
11/3/2016				5.3	0.69 (J)	1.9
11/14/2016	150		200			
11/15/2016		150				
1/11/2017				5.2	<1	1.7
2/24/2017	120					
2/27/2017			190			
2/28/2017		130				
3/1/2017					1.8	<1.5
3/2/2017				5		
4/26/2017					1.6	1.9
5/2/2017				5		
5/8/2017	120	150				
5/9/2017			190			
6/28/2017					<1	<1.5
6/29/2017				5.2		
7/11/2017	110					
7/13/2017		150	180			
10/4/2017				5.3		1.7
10/5/2017					1.6	
10/10/2017	93	140	180			
4/2/2018	88.8					
4/3/2018			183			
4/4/2018		137				
6/7/2018					0.68 (J)	
6/11/2018				5.2		0.95 (J)
9/19/2018	75	137	192			
9/25/2018				6.1	1	1.5
3/27/2019	65.9	146	188			
4/2/2019				5.1		
4/3/2019					0.82 (J)	1.3
9/25/2019				5.5		
9/26/2019					0.64 (J)	1
10/8/2019	52.3	142				
10/9/2019			183			
3/17/2020	71.6	121	161			
3/24/2020				5.4	<1	0.99 (J)
9/22/2020	51.5	130				
9/23/2020			170	5.1	0.53 (J)	1.1
3/1/2021	51.6	119	159			
3/3/2021				5.2	<1	1
8/19/2021	52.6	115	149			
8/26/2021						1.2
8/27/2021				5.3	0.59 (J)	
2/8/2022	50.9					
2/9/2022		121	164	4.8	0.51 (J)	1.1

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				4.7	0.78 (J)	1.3
8/31/2022	48	130	177			
2/7/2023				4.9	0.78 (J)	1.2
2/8/2023	50.5	130				
2/9/2023			193			
8/15/2023	47.7	113	154	4.6	0.51 (J)	0.88 (J)



# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					8	20
6/7/2016	<1	5.2				
7/26/2016					7.7	20
7/27/2016	0.08 (J)					
7/28/2016		5.1				
9/14/2016					7.5	19
9/19/2016	0.08 (J)	4.8				
11/2/2016	0.1 (J)				8.2	20
11/3/2016		5				
1/12/2017						19
1/13/2017	<1	4.3			8.1	
3/6/2017	<1	4.5			8	
3/7/2017						20
4/26/2017	<1	4.9				
5/1/2017					8.4	20
6/27/2017						18
6/29/2017	<1	5.5			9.2	
10/3/2017		5.8				16
10/4/2017	<1					
10/5/2017					9.6	
10/11/2017			20			
10/12/2017				17		
11/20/2017			24	71		
1/10/2018				66		
1/11/2018			23			
2/19/2018				57.2		
2/20/2018			20.6			
4/3/2018			24.5	49.4		
6/5/2018		6.1				
6/6/2018	0.049 (J)					8.3
6/7/2018					8.5	
6/28/2018			22	43.8		
8/7/2018			20.7	40.5		
9/24/2018			21.2	39.7		
9/25/2018	0.13 (J)	7				
9/26/2018					10.2	7.9
3/26/2019				34.3		
3/27/2019			17.7			
4/2/2019		3.8				
4/3/2019	0.12 (J)				8.5	7
9/24/2019		1				5.5
9/25/2019	<1				8.5	
10/9/2019			15	27.9		
3/24/2020	<1	3		25.2		5.9
3/25/2020			14.3		8.8	
9/22/2020					8.2	5.5
9/24/2020	<1	3.6	11.7	22.9		
3/2/2021						2.6
3/3/2021	<1				7.8	
3/4/2021		4.5	12	21.5		
8/26/2021			19.2		8.5	6
8/27/2021	<1					

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		5				
9/3/2021				21.3		
2/8/2022			14.6	17.9		
2/9/2022	<1	3.9				
2/10/2022						4.9
2/11/2022					7.7	
8/30/2022		3.2				5.7
8/31/2022	<1		10.9	17.9	8	
2/7/2023	<1	3.8	9.7			5.2
2/8/2023				17.5		
2/9/2023					8.9	
8/15/2023	<1	4.1	7.6	16.4	7.5	4.8

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				5	4.2	
6/2/2016	1.9		6.6			
7/25/2016					3.7	
7/26/2016	1.8		6.1	5.4		
8/31/2016		29				
9/13/2016				2.9	5.2	
9/14/2016	1.8					9.4
9/15/2016			6.1			
11/1/2016				3.9		
11/2/2016			6.3			
11/4/2016	2				5	13
11/28/2016		36				
12/15/2016						1.8
1/10/2017			5.9			
1/11/2017				3.7		
1/12/2017	1.9					
1/16/2017					7.9	11
2/22/2017		43				
3/2/2017				4.6	7.4	
3/3/2017						8.8
3/7/2017	2.1					
3/8/2017			7			
4/26/2017			7			
4/27/2017				5.2	7.4	
4/28/2017						10
5/2/2017	2					
5/8/2017		60				
5/26/2017						12
6/27/2017	2.1			5.9	6.4	
6/28/2017						11
6/30/2017			6.5			
7/17/2017		63				
10/3/2017	2.3			6.6	5.9	7.9
10/5/2017			7.9			
10/16/2017		62				
2/19/2018		64.6				
6/5/2018				6.4		
6/6/2018					4.4	
6/7/2018	2					8.8
6/8/2018			6.4			
8/6/2018		42.1				
9/26/2018	2.3					
10/1/2018			6.8	5.6	4	9.1
2/25/2019		42.1				
3/28/2019				8	4.3	
3/29/2019			7.3			9
4/3/2019	2.1					
6/12/2019		83.4				
9/24/2019	2.4			5.3	4.3	9.1
9/25/2019			6.6			
10/8/2019		128				
3/17/2020		98.6				

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			8.1		5.3	
3/19/2020				10		12.4
3/24/2020	2.1					
9/22/2020	2.1	145				
9/23/2020				8.1	3.4	11.8
9/25/2020			6.1			
3/2/2021	2.3	156	6			
3/3/2021				9	4.4	10.6
8/19/2021			6.7	8.9	4.9	
8/20/2021		121				
8/26/2021	2.4					
8/27/2021						16.7
2/8/2022		107				
2/9/2022				9.3	5.1	18
2/10/2022	2.4		6.2			
8/30/2022	2.4	101		10.2		20.1
8/31/2022			5.8		4.8	
2/7/2023		82.4		10.6	6.6	17.8
2/8/2023			6.1			
2/9/2023	2.9					
8/15/2023	2.2	74.2	6	9.6	4.6	17.2

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			12		
6/2/2016	1.3	5.8			
7/25/2016	1.2		8.4		
7/26/2016		6.7			
9/1/2016				770	
9/14/2016			8.6		
9/15/2016		6			
9/19/2016	1.2				
11/1/2016	1.3	4.9	8.9		
11/16/2016				780	
1/11/2017		4.5	8.6		
1/16/2017	<1.5				
2/21/2017	1.4				
2/27/2017				650	
3/1/2017			9.3		
3/2/2017		4.4			
4/26/2017	1.4	5.1	11		
5/8/2017				770	
6/28/2017		5.4	12		
6/30/2017	<1.5				
7/13/2017				630	
10/4/2017	1.4	6.2	12		
10/11/2017				540	
4/4/2018				430	
6/7/2018		6.7			
6/8/2018			9.6		
6/11/2018	1.1				
9/19/2018				395	
10/1/2018		7.1	9.1		
10/2/2018	1				
3/27/2019				437	
4/1/2019	0.96 (J)	7.2	8.5		
9/25/2019	0.81 (J)	7	13.8		
10/9/2019				<1	
3/17/2020				439	
3/19/2020	1.6	9	12.9		
7/6/2020				385	
8/27/2020					144
8/28/2020				394	
9/22/2020					156
9/23/2020		6.9	16.8	430	
9/24/2020	0.69 (J)				
10/7/2020				427	156
11/12/2020				385	147
3/1/2021	0.88 (J)				139
3/2/2021				387	
3/3/2021		7	9.6		
8/19/2021	1	7.5			
8/20/2021					122
8/27/2021			18.2	423	
2/9/2022		7.2	16	415	119
2/11/2022	2.8				

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	1.1	6.9	13.9	459	122
2/8/2023	0.96 (J)	7.5	14.7		
2/10/2023				517	114
8/15/2023		6.8		419	96.5
8/16/2023	0.9 (J)		20.3		

# Time Series

Constituent: Thallium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.001	<0.001
6/7/2016				<0.001		
7/27/2016				<0.001	<0.001	<0.001
8/30/2016	<0.001					
8/31/2016		<0.001	<0.001			
9/16/2016				<0.001		<0.001
9/19/2016					<0.001	
11/3/2016				<0.001	<0.001	<0.001
11/14/2016	<0.001		<0.001			
11/15/2016		<0.001				
1/11/2017				<0.001	<0.001	<0.001
2/24/2017	<0.001					
2/27/2017			<0.001			
2/28/2017		<0.001				
3/1/2017					<0.001	<0.001
3/2/2017				<0.001		
4/26/2017					<0.001	<0.001
5/2/2017				<0.001		
5/8/2017	<0.001	<0.001				
5/9/2017			<0.001			
6/28/2017					<0.001	<0.001
6/29/2017				<0.001		
7/11/2017	<0.001					
7/13/2017		<0.001	<0.001			
10/10/2017	<0.001	<0.001	<0.001			
3/28/2018				<0.001	<0.001	<0.001
4/2/2018	<0.001					
4/3/2018			<0.001			
4/4/2018		<0.001				
9/19/2018	<0.001	<0.001	<0.001			
3/5/2019				<0.001		<0.001
3/6/2019					<0.001	
4/2/2019				<0.001		
4/3/2019					<0.001	<0.001
8/20/2019	5.8E-05 (J)	<0.001	<0.001			
9/25/2019				<0.001		
9/26/2019					<0.001	<0.001
10/8/2019	8.4E-05 (J)	<0.001				
10/9/2019			<0.001			
2/11/2020				<0.001	<0.001	<0.001
3/17/2020	<0.001	8E-05 (J)	<0.001			
3/24/2020				<0.001	<0.001	<0.001
8/27/2020	<0.001	<0.001				
8/28/2020			<0.001			
9/23/2020				<0.001	<0.001	<0.001
2/9/2021					<0.001	<0.001
8/19/2021	<0.001	<0.001	<0.001			
2/8/2022	<0.001					
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2022				<0.001	<0.001	<0.001
8/31/2022	<0.001	<0.001	<0.001			
2/7/2023				<0.001	<0.001	<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
2/8/2023	<0.001	<0.001				
2/9/2023			<0.001			
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001



# Time Series

Constituent: Thallium (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.001	<0.001
6/7/2016	<0.001	<0.001				
7/26/2016					<0.001	<0.001
7/27/2016	<0.001					
7/28/2016		<0.001				
9/14/2016					<0.001	<0.001
9/19/2016	<0.001	<0.001				
11/2/2016	<0.001				<0.001	<0.001
11/3/2016		<0.001				
1/12/2017						<0.001
1/13/2017	<0.001	<0.001			<0.001	
3/6/2017	<0.001	<0.001			<0.001	
3/7/2017						<0.001
4/26/2017	<0.001	<0.001				
5/1/2017					<0.001	<0.001
6/27/2017						<0.001
6/29/2017	<0.001	<0.001			<0.001	
10/11/2017			<0.001			
10/12/2017				<0.001		
11/20/2017			<0.001	<0.001		
1/10/2018				<0.001		
1/11/2018			<0.001			
2/19/2018				<0.001		
2/20/2018			<0.001			
3/29/2018	<0.001	<0.001			<0.001	<0.001
4/3/2018			<0.001	<0.001		
6/28/2018			<0.001	<0.001		
8/7/2018			<0.001	<0.001		
9/24/2018			<0.001	<0.001		
9/25/2018		<0.001				
3/4/2019					<0.001	<0.001
3/5/2019	<0.001	<0.001				
4/2/2019		<0.001				
4/3/2019	<0.001				<0.001	<0.001
8/21/2019			<0.001	<0.001		
9/24/2019		<0.001				<0.001
9/25/2019	<0.001				<0.001	
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/24/2020	<0.001	<0.001		<0.001		<0.001
3/25/2020			<0.001		<0.001	
9/22/2020					<0.001	<0.001
9/24/2020	<0.001	<0.001	<0.001	<0.001		
2/8/2021						<0.001
2/9/2021	<0.001	<0.001			<0.001	
2/10/2021			<0.001	<0.001		
2/8/2022			<0.001	<0.001		
2/9/2022	<0.001	<0.001				
2/10/2022						<0.001
2/11/2022					<0.001	
8/30/2022		<0.001				<0.001
8/31/2022	<0.001		<0.001	<0.001	<0.001	
2/7/2023	<0.001	<0.001	<0.001			<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/8/2023				<0.001		
2/9/2023					<0.001	
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.001				
9/11/2007		<0.001				
3/20/2008		<0.001				
8/27/2008		<0.001				
3/3/2009		<0.001				
11/18/2009		<0.001				
3/3/2010		<0.001				
9/8/2010		<0.001				
3/10/2011		<0.001				
9/8/2011		<0.001				
3/5/2012		<0.001				
9/10/2012		<0.001				
2/6/2013		<0.001				
8/12/2013		<0.001				
2/5/2014		<0.001				
8/5/2014		<0.001				
2/4/2015		<0.001				
2/16/2016		<0.001				
6/1/2016				<0.001	<0.001	
6/2/2016	<0.001		<0.001			
7/25/2016					<0.001	
7/26/2016	<0.001		<0.001	<0.001		
8/31/2016		<0.001				
9/13/2016				<0.001	<0.001	
9/14/2016	<0.001					<0.001
9/15/2016			<0.001			
11/1/2016				<0.001		
11/2/2016			<0.001			
11/4/2016	<0.001				<0.001	<0.001
11/28/2016		<0.001				
12/15/2016						<0.001
1/10/2017			<0.001			
1/11/2017				<0.001		
1/12/2017	<0.001					
1/16/2017					<0.001	<0.001
2/22/2017		<0.001				
3/2/2017				<0.001	<0.001	
3/3/2017						<0.001
3/7/2017	<0.001					
3/8/2017			<0.001			
4/26/2017			<0.001			
4/27/2017				<0.001	<0.001	
4/28/2017						<0.001
5/2/2017	<0.001					
5/8/2017		6E-05 (J)				
5/26/2017						<0.001
6/27/2017	<0.001			<0.001	<0.001	
6/28/2017						<0.001
6/30/2017			<0.001			
7/17/2017		6E-05 (J)				
10/16/2017		7E-05 (J)				
2/19/2018		<0.001				

# Time Series

Constituent: Thallium (mg/L) Analysis Run 10/9/2023 6:04 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/27/2018			<0.001		<0.001	
3/28/2018						<0.001
3/29/2018	<0.001			<0.001		
8/6/2018		<0.001				
2/25/2019		<0.001				
2/26/2019			<0.001			
2/27/2019				<0.001	<0.001	<0.001
3/4/2019	<0.001					
4/3/2019	<0.001					
6/12/2019		<0.001				
8/19/2019		5.5E-05 (J)				
9/24/2019	<0.001					
10/8/2019		<0.001				
2/10/2020				<0.001	5.5E-05 (J)	
2/11/2020						<0.001
2/12/2020	<0.001		8.9E-05 (J)			
3/17/2020		<0.001				
3/18/2020			<0.001		<0.001	
3/19/2020				<0.001		<0.001
3/24/2020	<0.001					
8/26/2020		<0.001				
9/22/2020	<0.001	<0.001				
9/23/2020				<0.001	<0.001	<0.001
9/25/2020			<0.001			
2/8/2021	<0.001					
2/10/2021			<0.001			<0.001
2/12/2021				<0.001	<0.001	
3/2/2021		<0.001				
8/20/2021		<0.001				
2/8/2022		<0.001				
2/9/2022				<0.001	<0.001	<0.001
2/10/2022	<0.001		<0.001			
8/30/2022	<0.001	<0.001		<0.001		<0.001
8/31/2022			<0.001		<0.001	
2/7/2023		<0.001		<0.001	<0.001	<0.001
2/8/2023			<0.001			
2/9/2023	<0.001					
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.001		
6/2/2016	<0.001	<0.001			
7/25/2016	<0.001		<0.001		
7/26/2016		0.0001 (J)			
9/1/2016				<0.001	
9/14/2016			<0.001		
9/15/2016		<0.001			
9/19/2016	<0.001				
11/1/2016	<0.001	<0.001	<0.001		
11/16/2016				<0.001	
1/11/2017		<0.001	<0.001		
1/16/2017	<0.001				
2/21/2017	<0.001				
2/27/2017				<0.001	
3/1/2017			<0.001		
3/2/2017		<0.001			
4/26/2017	<0.001	<0.001	<0.001		
5/8/2017				<0.001	
6/28/2017		<0.001	<0.001		
6/30/2017	<0.001				
7/13/2017				<0.001	
10/11/2017				<0.001	
3/27/2018	<0.001				
3/28/2018		<0.001	<0.001		
4/4/2018				<0.001	
9/19/2018				<0.001	
2/26/2019	<0.001				
2/27/2019		<0.001	<0.001		
8/21/2019				<0.001	
10/9/2019				<0.001	
2/11/2020			<0.001		
2/12/2020	<0.001	<0.001			
3/17/2020				<0.001	
3/19/2020	<0.001	<0.001	<0.001		
7/6/2020				7.3E-05 (J)	
8/27/2020					<0.001
8/28/2020				<0.001	
9/23/2020		<0.001	0.00016 (J)		
9/24/2020	<0.001				
11/12/2020				<0.001	<0.001
2/10/2021		<0.001	<0.001		
2/11/2021	<0.001				
8/20/2021					<0.001
8/27/2021				<0.001	
2/9/2022		<0.001	<0.001	<0.001	<0.001
2/11/2022	<0.001				
8/31/2022	<0.001	<0.001	<0.001	<0.001	<0.001
2/8/2023	<0.001	<0.001	<0.001		
2/10/2023				<0.001	<0.001
8/15/2023		<0.001		<0.001	<0.001
8/16/2023	<0.001		<0.001		

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					120	58
6/7/2016				28		
7/27/2016				74	94	35
8/30/2016	319					
8/31/2016		332	402			
9/16/2016				67		35
9/19/2016					92	
11/3/2016				41	104	48
11/14/2016	280		445			
11/15/2016		356				
1/11/2017				104	133	95
2/24/2017	162					
2/27/2017			346			
2/28/2017		483				
3/1/2017					119	79
3/2/2017				77		
4/26/2017					162	36
5/2/2017				142		
5/8/2017	194	296				
5/9/2017			388			
6/28/2017					98	45
6/29/2017				53		
7/11/2017	193					
7/13/2017		345	433			
10/4/2017				61		45
10/5/2017					104	
10/10/2017	175	311	396			
4/2/2018	192					
4/3/2018			418			
4/4/2018		313				
6/7/2018					68	
6/11/2018				70		74
9/19/2018	186	326	413			
9/25/2018				86	109	63
3/27/2019	170	302	383			
4/2/2019				72		
4/3/2019					89	63
9/25/2019				81		
9/26/2019					126	72
10/8/2019	172	324				
10/9/2019			432			
3/17/2020	165	283	391			
3/24/2020				71	91	59
9/22/2020	141	294				
9/23/2020			404	99	103	81
3/1/2021	145	276	379			
3/3/2021				57	95	37
8/19/2021	134	333	391			
8/26/2021						31
8/27/2021				93	112	
2/8/2022	151					
2/9/2022		311	400	81	103	60

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				81	100	52
8/31/2022	116	343	445			
2/7/2023				78	96	55
2/8/2023	141	337				
2/9/2023			394			
8/15/2023	186	319	404	74	96	81

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					96	160
6/7/2016	38	60				
7/26/2016					92	177
7/27/2016	74					
7/28/2016		81				
9/14/2016					102	187
9/19/2016	45	68				
11/2/2016	53				115	181
11/3/2016		61				
1/12/2017						202
1/13/2017	46	76			67	
3/6/2017	164	167			159	
3/7/2017						257
4/26/2017	34	50				
5/1/2017					107	165
6/27/2017						189
6/29/2017	68	94			79	
10/3/2017		149				170
10/4/2017	54					
10/5/2017					95	
10/11/2017			68			
10/12/2017				74		
11/20/2017			139	179		
1/10/2018				140		
1/11/2018			153			
2/19/2018				119		
2/20/2018			87			
4/3/2018			85	106		
6/5/2018		109				
6/6/2018	79					151
6/7/2018					90	
6/28/2018			88	112		
8/7/2018			89	103		
9/24/2018			82	107		
9/25/2018	73	122				
9/26/2018					116	144
3/26/2019				90		
3/27/2019			75			
4/2/2019		134				
4/3/2019	57				111	142
9/24/2019		157				129
9/25/2019	75				117	
10/9/2019			119	98		
3/24/2020	76	117		84		139
3/25/2020			158		146	
9/22/2020					83	104
9/24/2020	69	113	170	77		
3/2/2021						52
3/3/2021	53				80	
3/4/2021		110	168	57		
8/26/2021			249		93	123
8/27/2021	67					



# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		137				
9/3/2021				88		
2/8/2022			248	93		
2/9/2022	72	131				
2/10/2022						127
2/11/2022					102	
8/30/2022		122				148
8/31/2022	62		242	92	92	
2/7/2023	89	163	224			180
2/8/2023				115		
2/9/2023					124	
8/15/2023	62	126	225	83	99	219

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				120	54	
6/2/2016	66		46			
7/25/2016					48	
7/26/2016	78		54	94		
8/31/2016		209				
9/13/2016				105	67	
9/14/2016	73					152
9/15/2016			54			
11/1/2016				44		
11/2/2016			71			
11/4/2016	75				60	148
11/28/2016		102				
12/15/2016						191
1/10/2017			45			
1/11/2017				107		
1/12/2017	86					
1/16/2017					65	180
2/22/2017		164				
3/2/2017				98	61	
3/3/2017						156
3/7/2017	108					
3/8/2017			178			
4/26/2017			52			
4/27/2017				116	31	
4/28/2017						130
5/2/2017	103					
5/8/2017		145				
5/26/2017						223
6/27/2017	73			89	42	
6/28/2017						166
6/30/2017			45			
7/17/2017		185				
10/3/2017	89			119	58	153
10/5/2017			40			
10/16/2017		218				
2/19/2018		173				
6/5/2018				127		
6/6/2018					96	
6/7/2018	142					146
6/8/2018			114			
8/6/2018		158				
9/26/2018	86					
10/1/2018			50	117	60	155
2/25/2019		92				
3/28/2019				87	87	
3/29/2019			63			150
4/3/2019	83					
6/12/2019		226				
9/24/2019	79			124	54	146
9/25/2019			64			
10/8/2019		276				
3/17/2020		185				

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			57		35	
3/19/2020				116		148
3/24/2020	68					
9/22/2020	75	281				
9/23/2020				108	15	161
9/25/2020			54			
3/2/2021	67	296	67			
3/3/2021				99	39	138
8/19/2021			54	105	44	
8/20/2021		254				
8/26/2021	86					
8/27/2021						150
2/8/2022		283				
2/9/2022				105	57	156
2/10/2022	77		56			
8/30/2022	86	244		116		153
8/31/2022			51		46	
2/7/2023		207		131	121	159
2/8/2023			56			
2/9/2023	59					
8/15/2023	76	230	69	121	65	157

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:04 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			150		
6/2/2016	36	130			
7/25/2016	50		135		
7/26/2016		141			
9/1/2016				1240	
9/14/2016			127		
9/15/2016		153			
9/19/2016	35				
11/1/2016	<25	92	75		
11/16/2016				1220	
1/11/2017		159	148		
1/16/2017	47				
2/21/2017	<25				
2/27/2017				1060	
3/1/2017			182		
3/2/2017		117			
4/26/2017	55	181	92		
5/8/2017				1160	
6/28/2017		169	126		
6/30/2017	42				
7/13/2017				996	
10/4/2017	31	141	147		
10/11/2017				835	
4/4/2018				1470	
6/7/2018		95			
6/8/2018			158		
6/11/2018	59				
9/19/2018				702	
10/1/2018		165	138		
10/2/2018	57				
3/27/2019				641	
4/1/2019	54	149	19 (J)		
9/25/2019	51	157	159		
10/9/2019				809	
3/17/2020				733	
3/19/2020	47	146	148		
7/6/2020				793	
8/27/2020					349
8/28/2020				838	
9/22/2020					296
9/23/2020		157	155	832	
9/24/2020	51				
10/7/2020				842	336
11/12/2020				760	317
3/1/2021	23				265
3/2/2021				782	
3/3/2021		137	111		
8/19/2021	50	144			
8/20/2021					289
8/27/2021			155	810	
2/9/2022		154	145	846	278
2/11/2022	66				

# Time Series

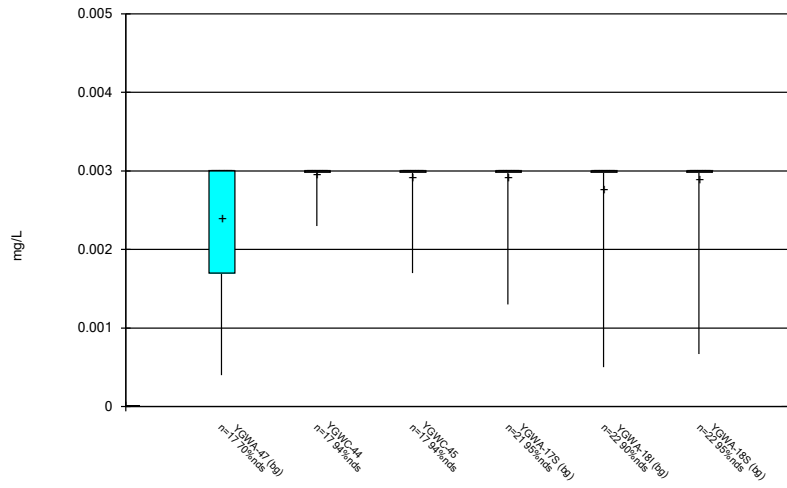
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:04 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	33	141	137	948	266
2/8/2023	43	144	145		
2/10/2023				995	228
8/15/2023		231		945	267
8/16/2023	48		148		

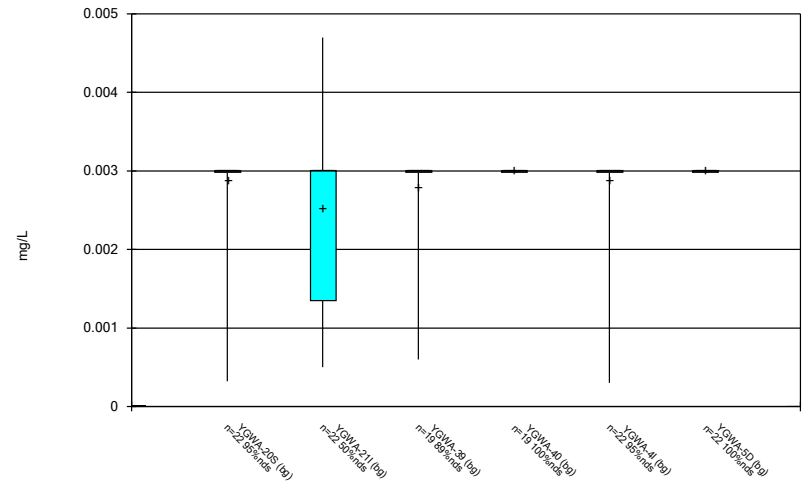
FIGURE B.

Box & Whiskers Plot



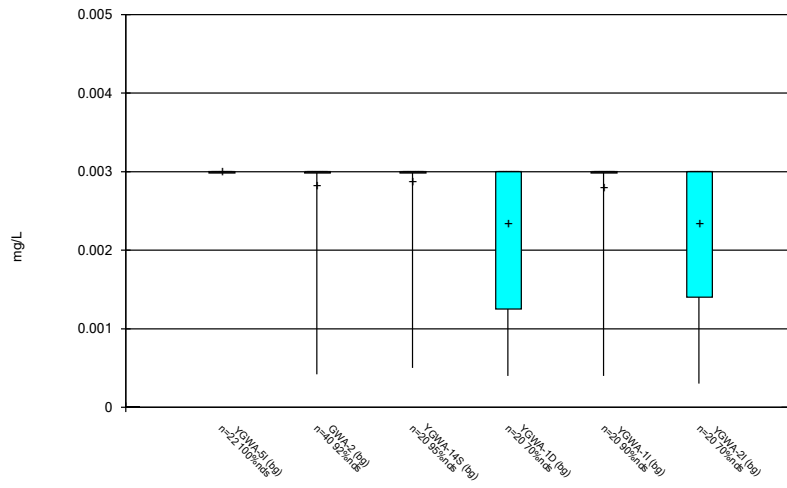
Constituent: Antimony Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



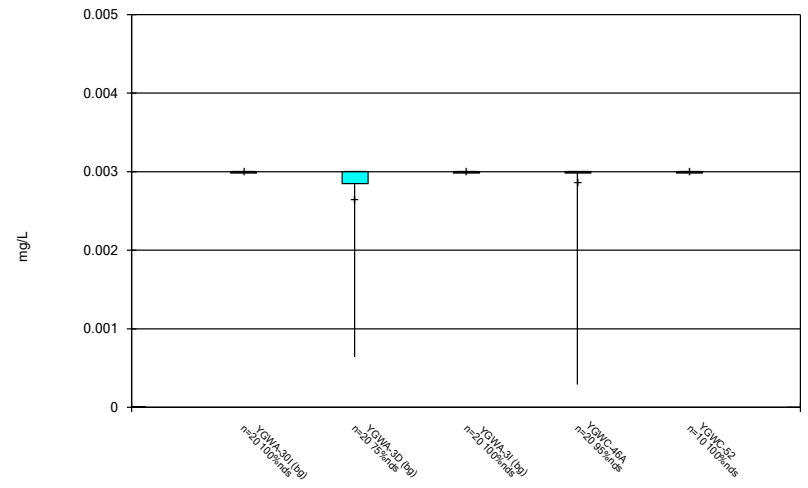
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



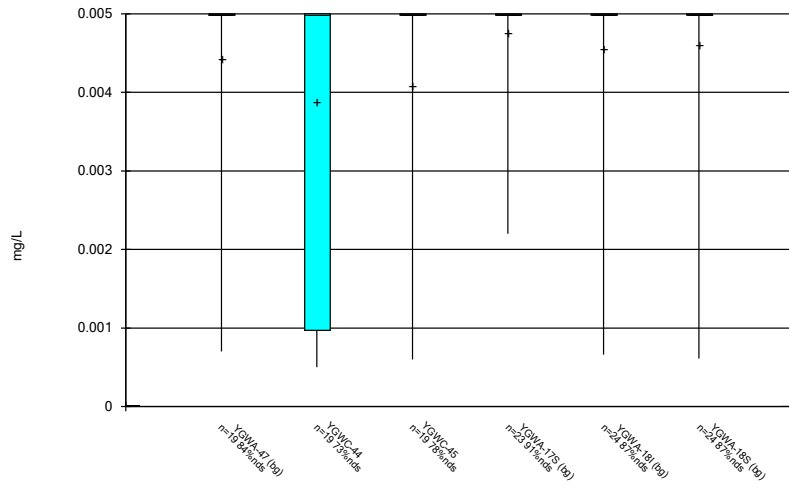
Constituent: Antimony Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



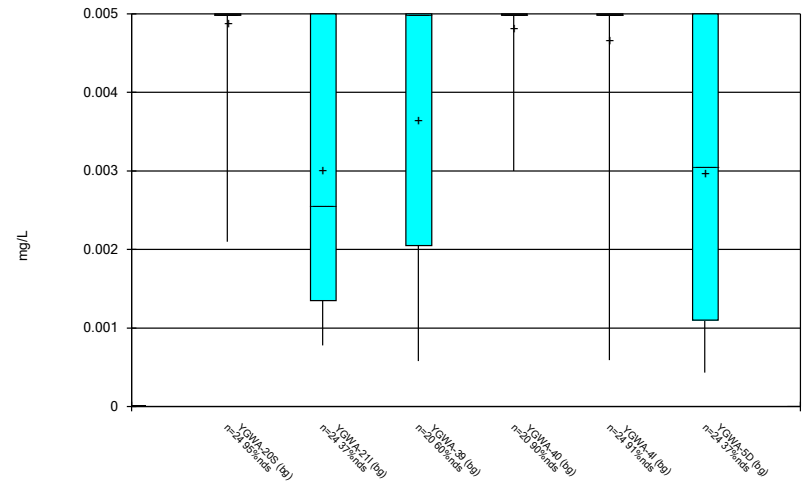
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



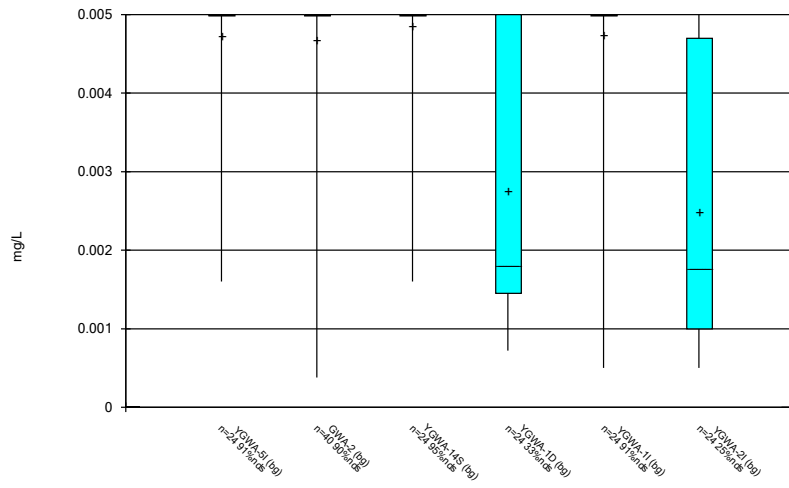
Constituent: Arsenic Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



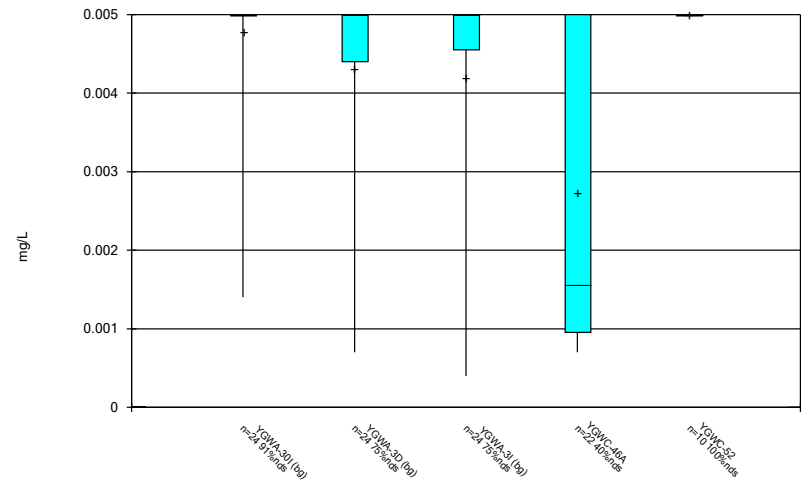
Constituent: Arsenic Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

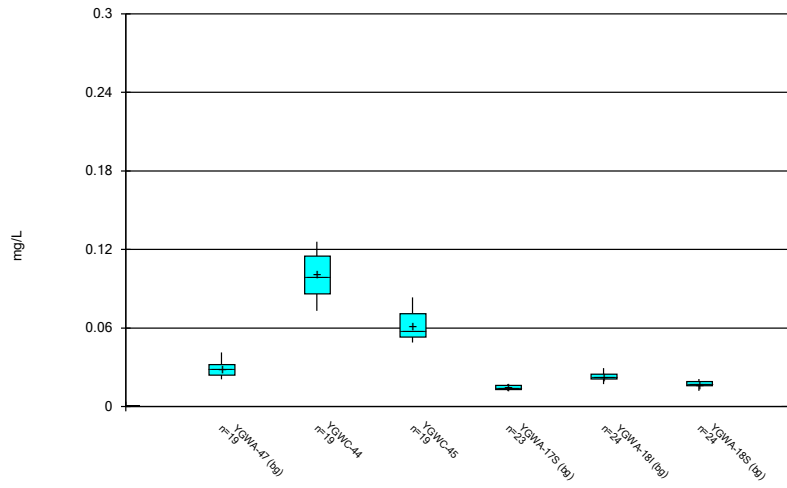
### Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

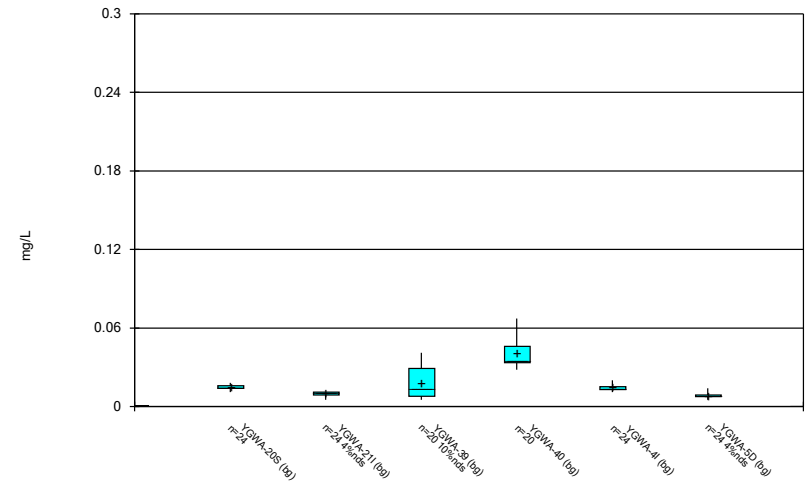


Box & Whiskers Plot



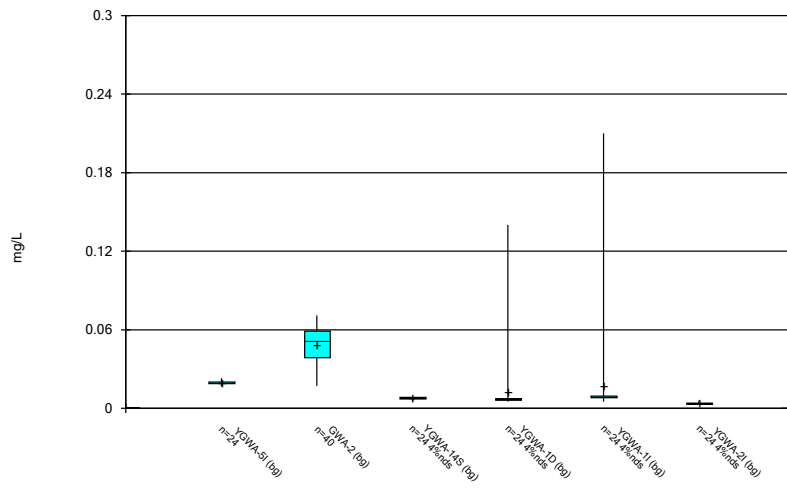
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



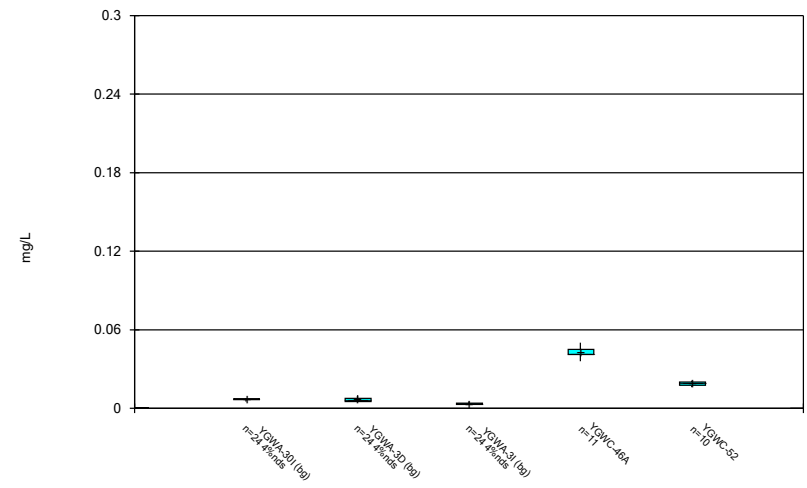
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



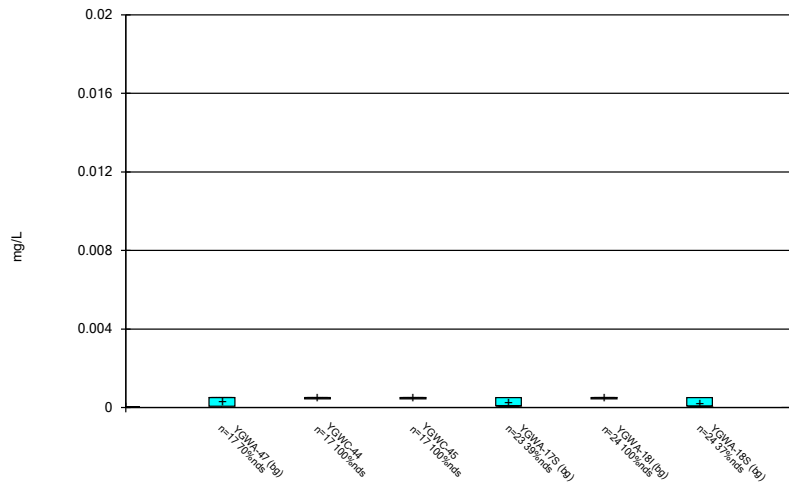
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



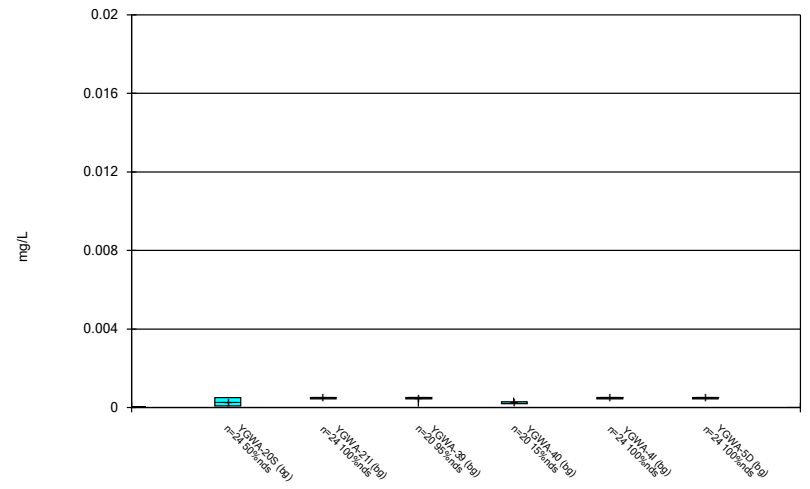
Constituent: Barium Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



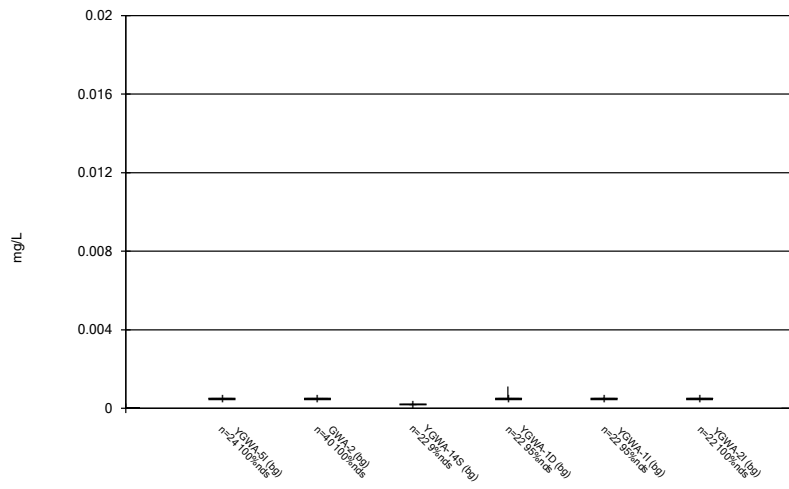
Constituent: Beryllium Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



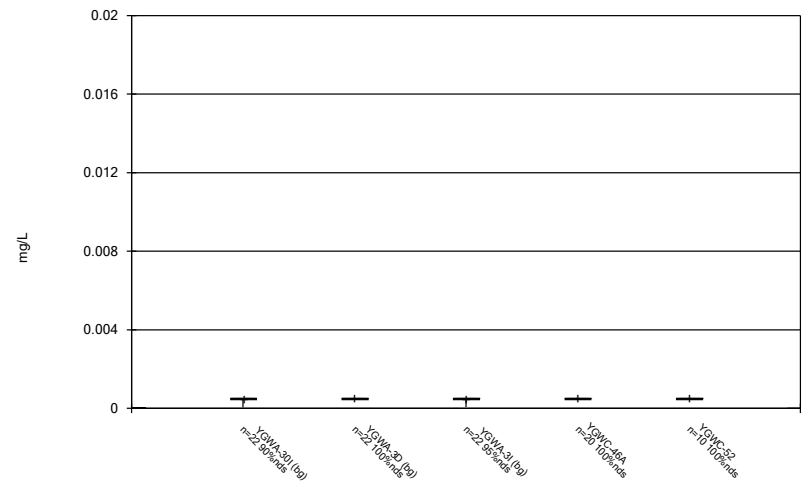
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



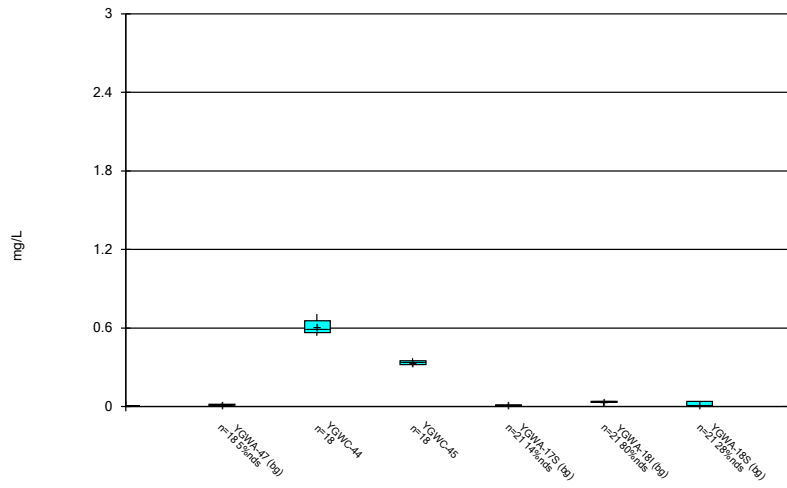
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



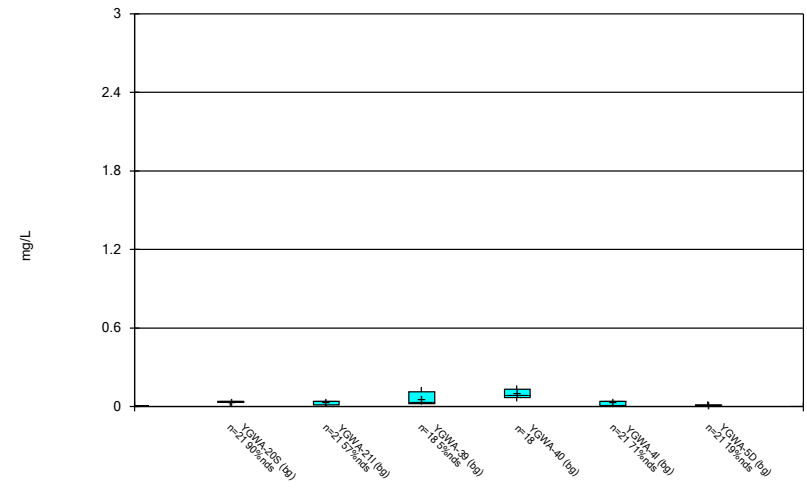
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



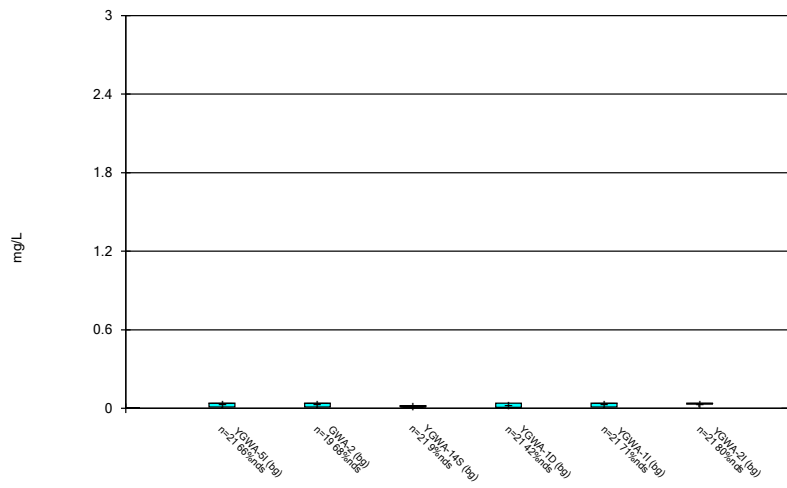
Constituent: Boron, total Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



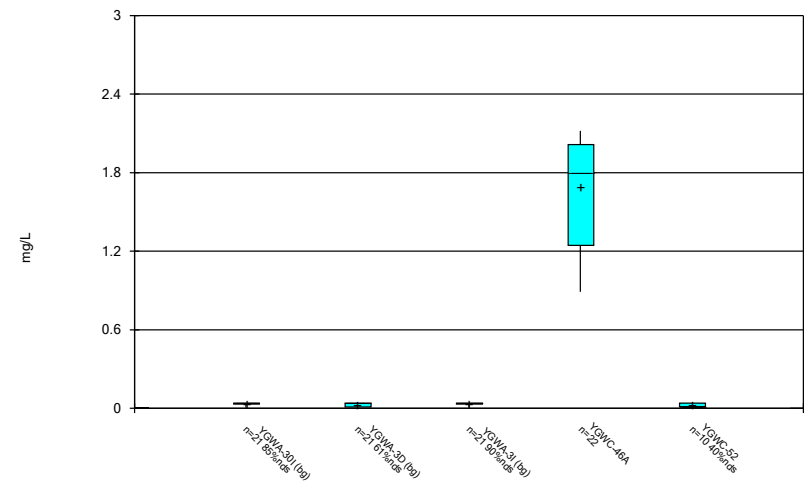
Constituent: Boron, total Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



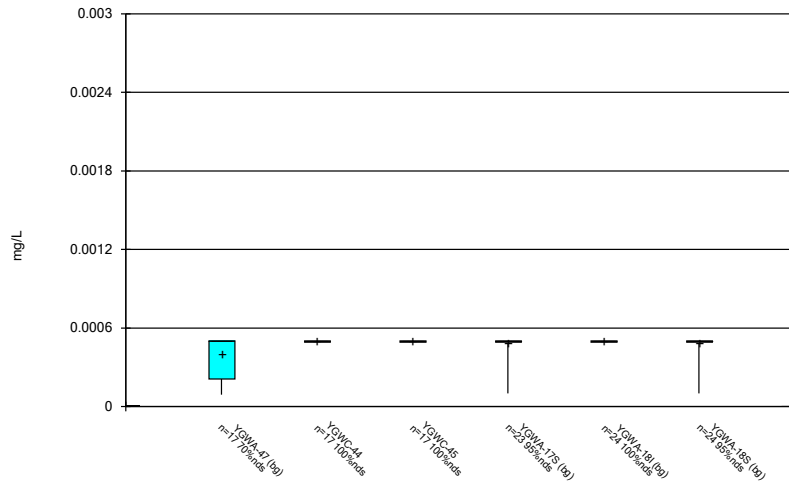
Constituent: Boron, total Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



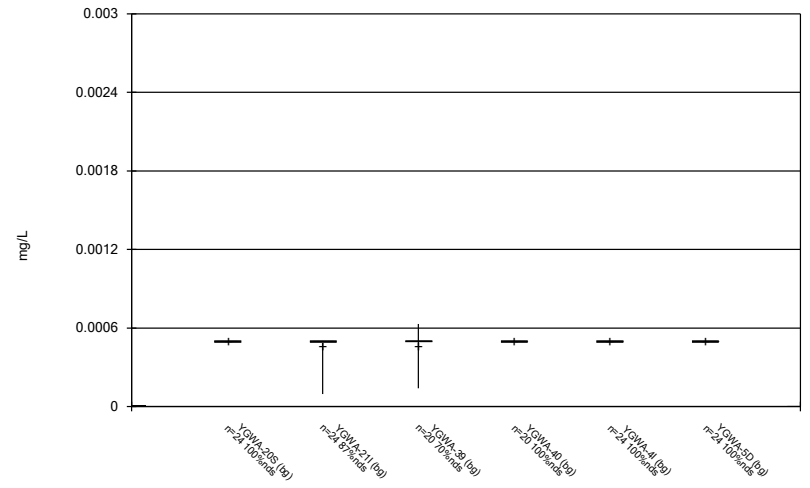
Constituent: Boron, total Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



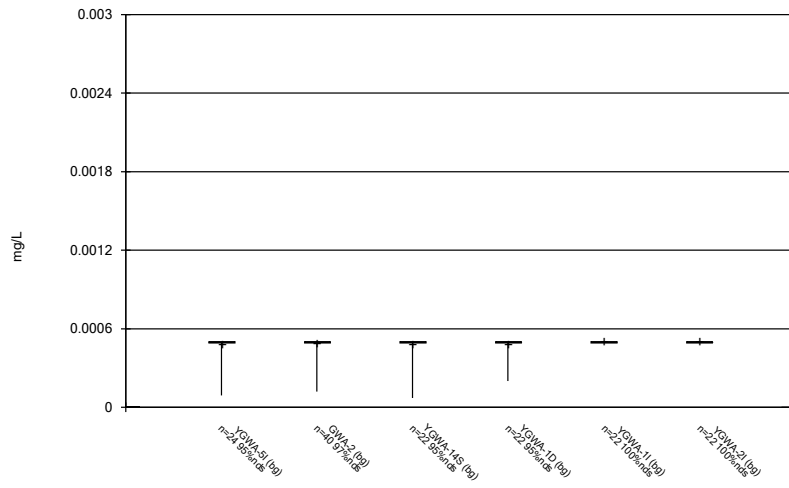
Constituent: Cadmium Analysis Run 10/9/2023 6:05 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



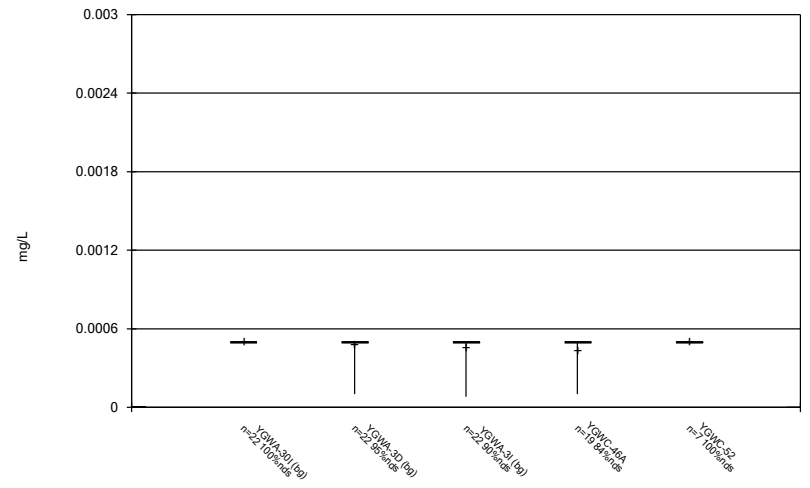
Constituent: Cadmium Analysis Run 10/9/2023 6:05 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



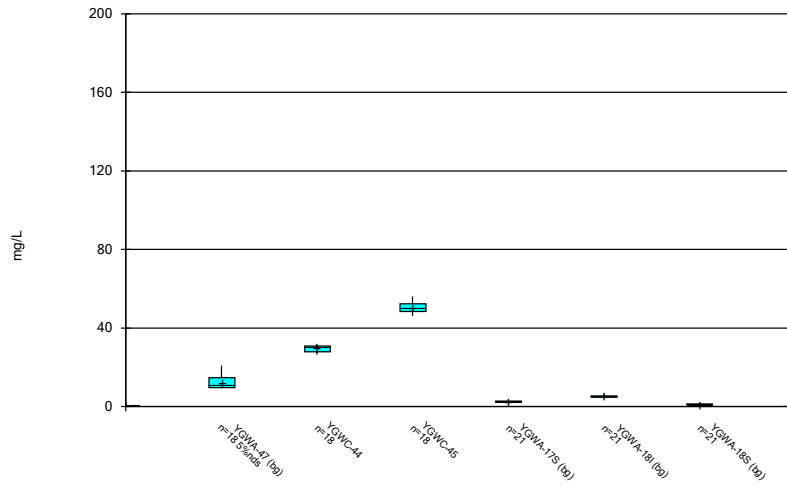
Constituent: Cadmium Analysis Run 10/9/2023 6:05 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



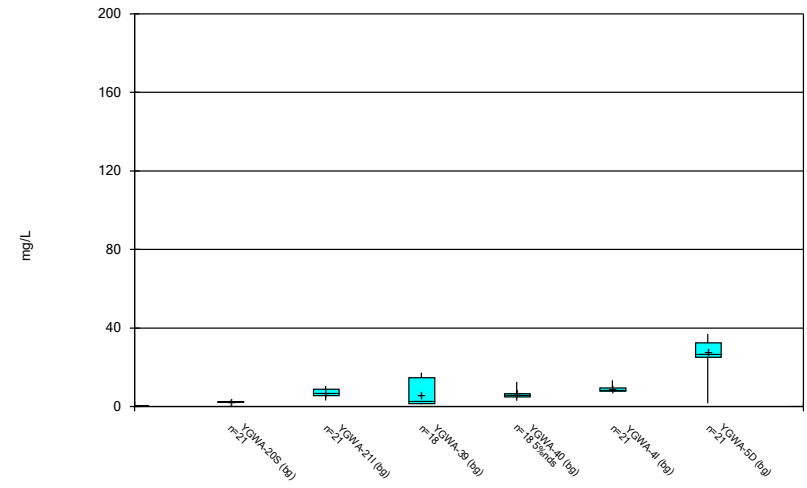
Constituent: Cadmium Analysis Run 10/9/2023 6:05 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



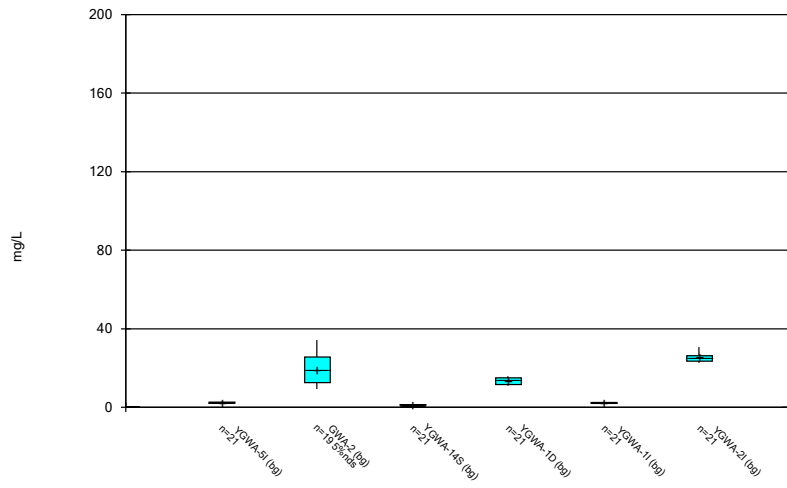
Constituent: Calcium, total Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



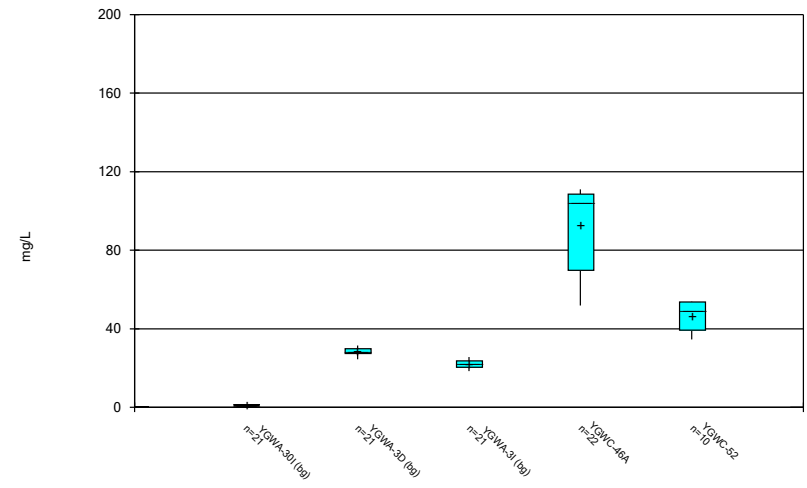
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



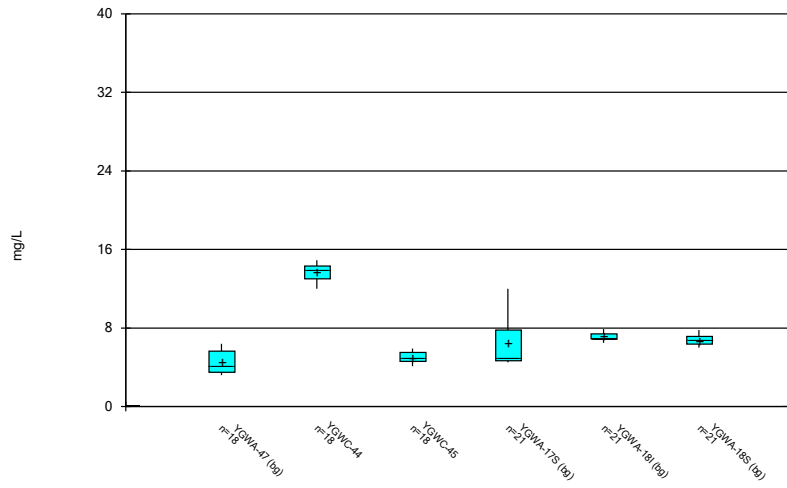
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



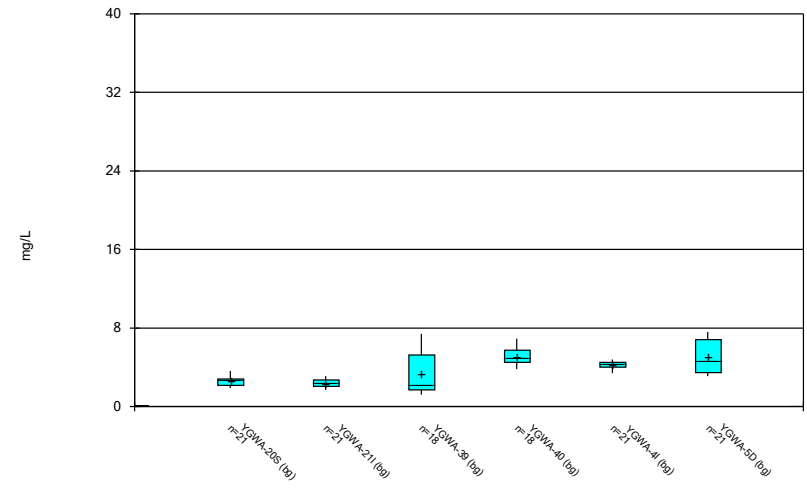
Constituent: Calcium, total Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



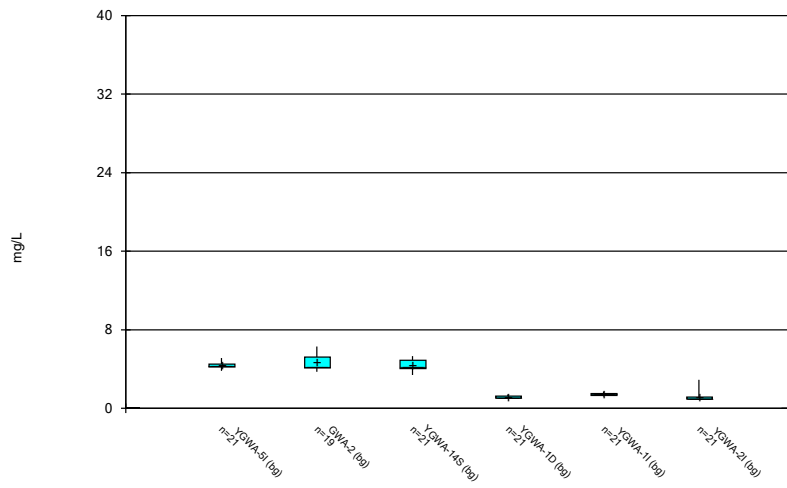
Constituent: Chloride, Total Analysis Run 10/9/2023 6:05 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



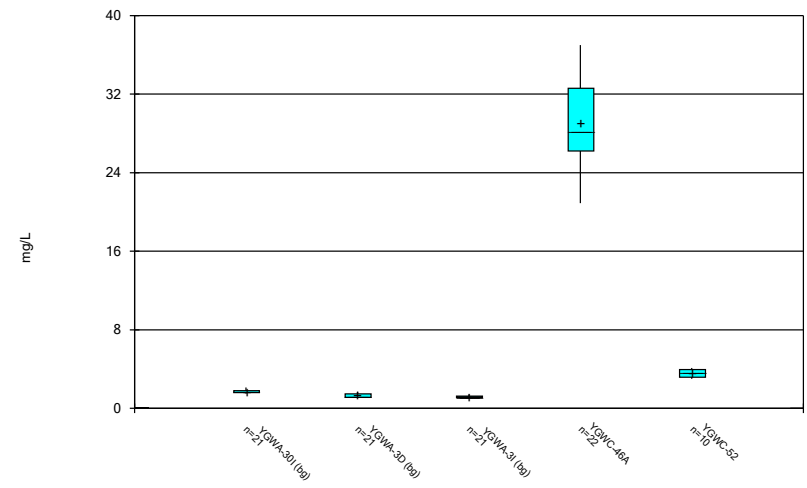
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



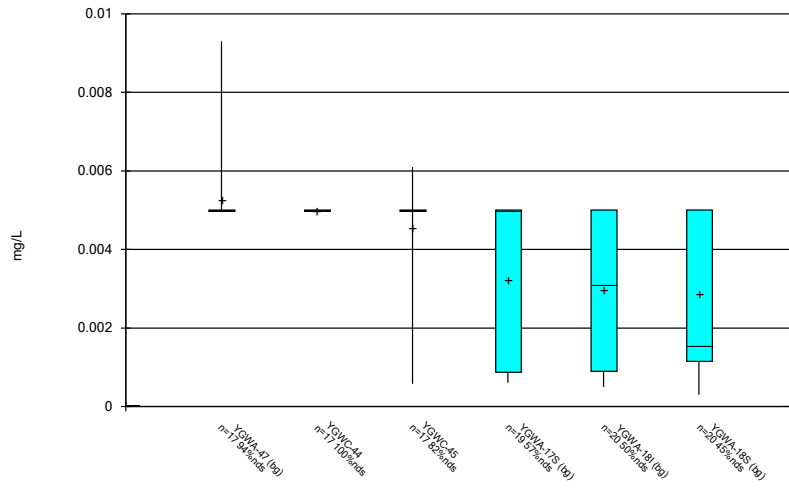
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



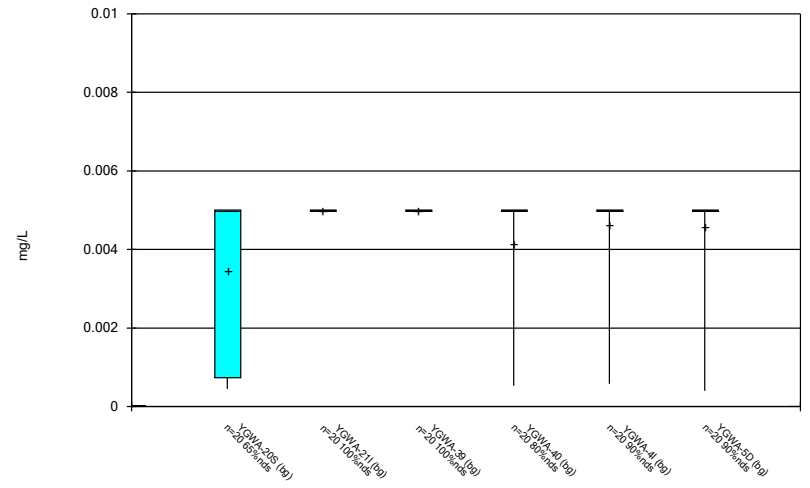
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Box & Whiskers Plot



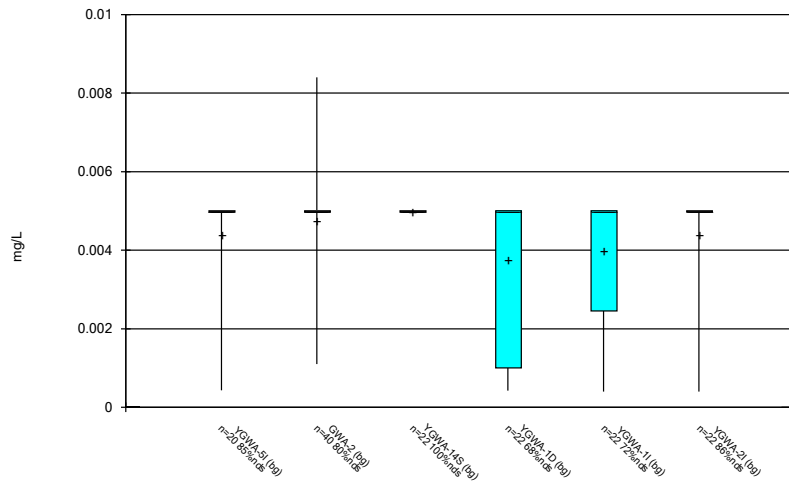
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Box & Whiskers Plot



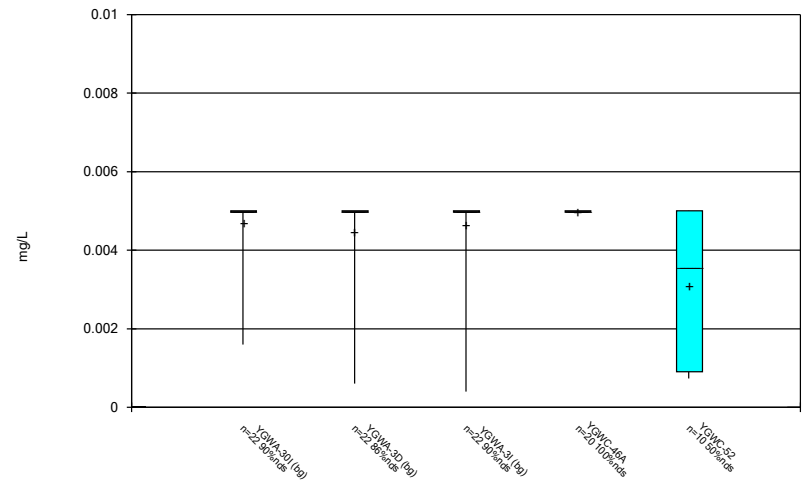
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Box & Whiskers Plot



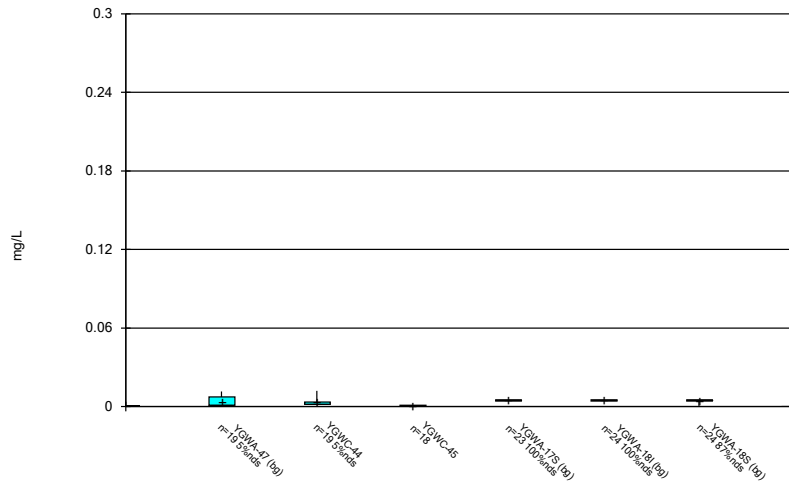
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Box & Whiskers Plot



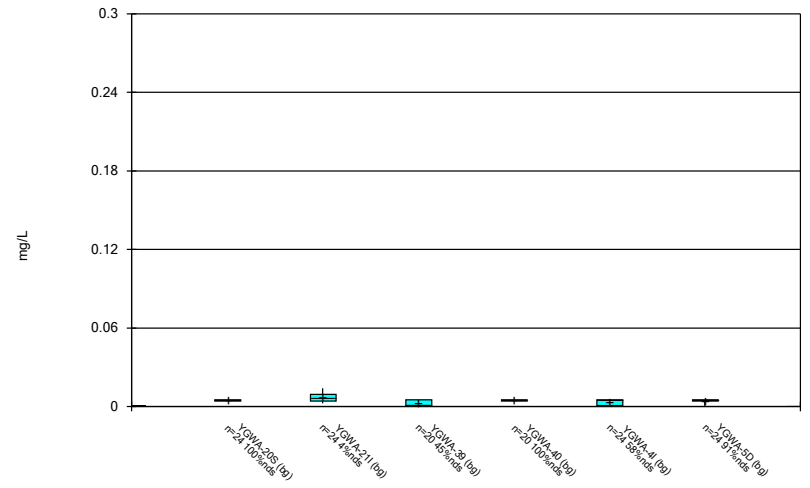
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### Box & Whiskers Plot



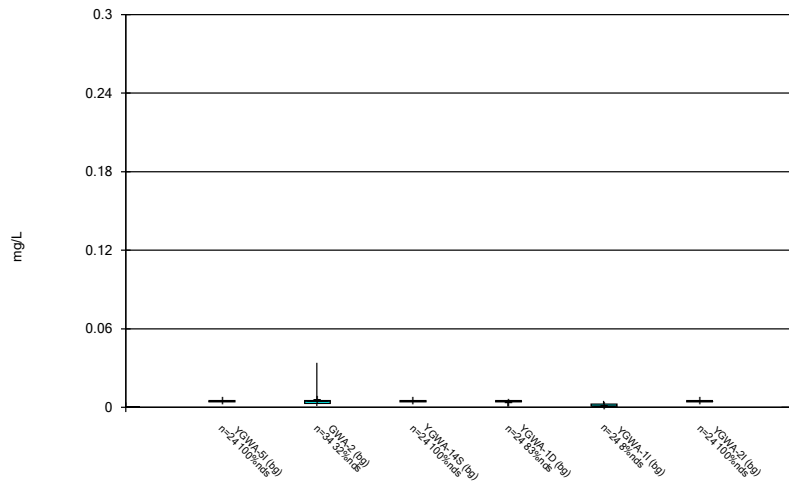
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### Box & Whiskers Plot



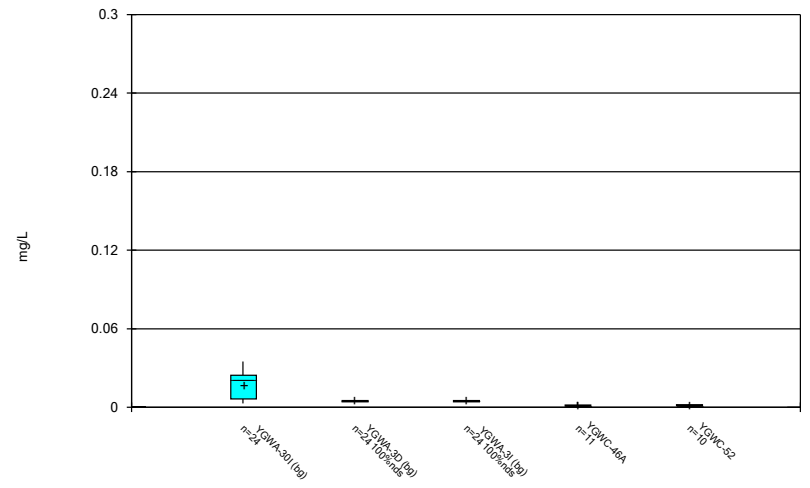
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



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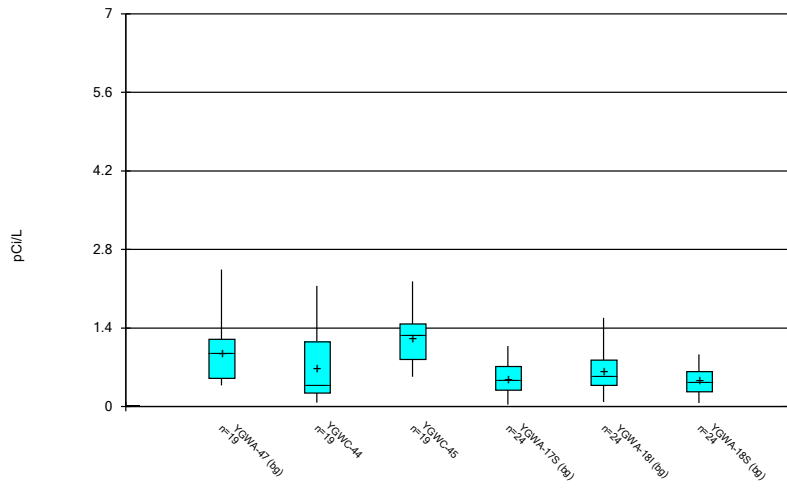
### Box & Whiskers Plot



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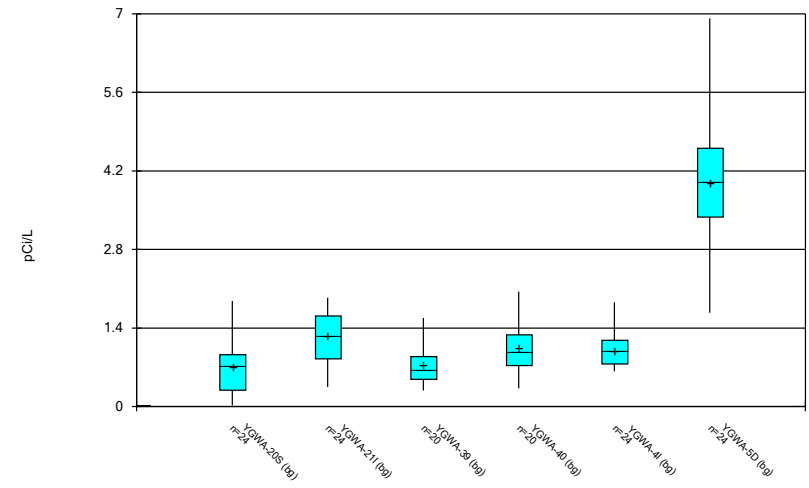


Box & Whiskers Plot



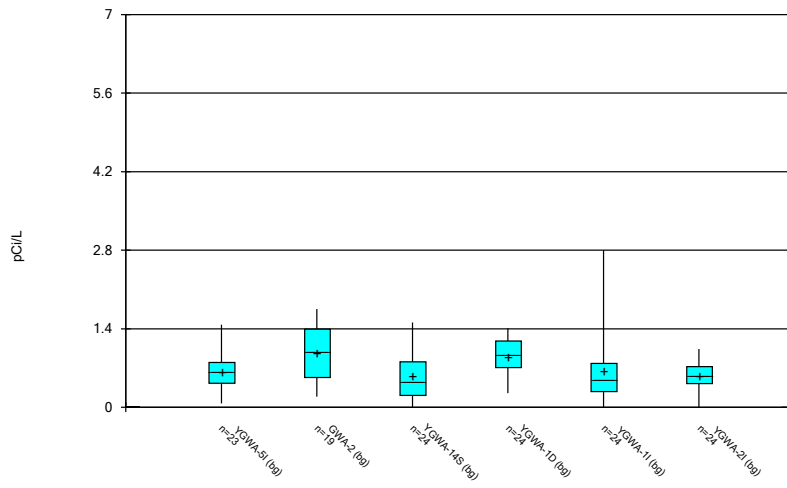
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Box & Whiskers Plot



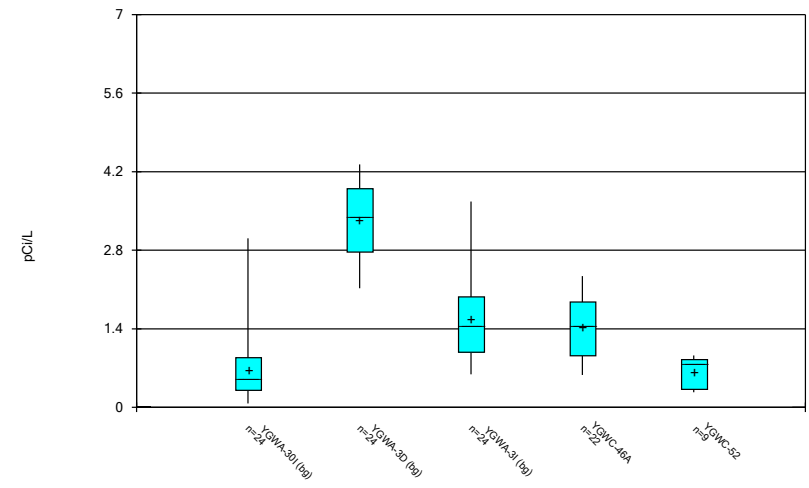
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Box & Whiskers Plot



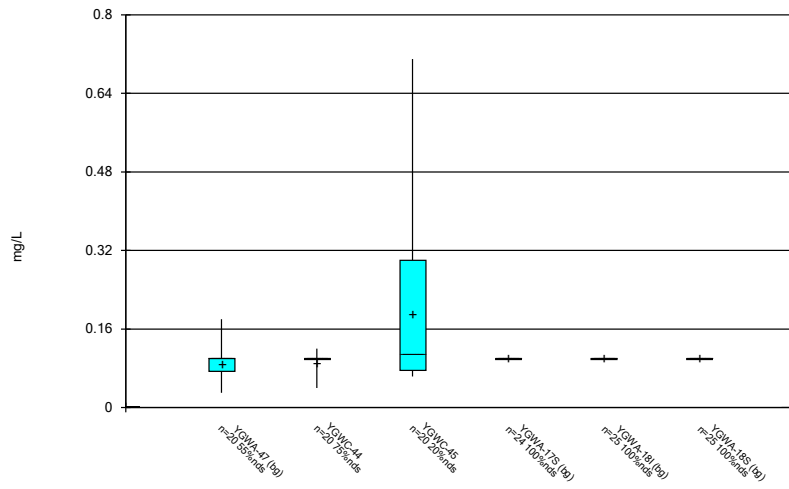
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Box & Whiskers Plot



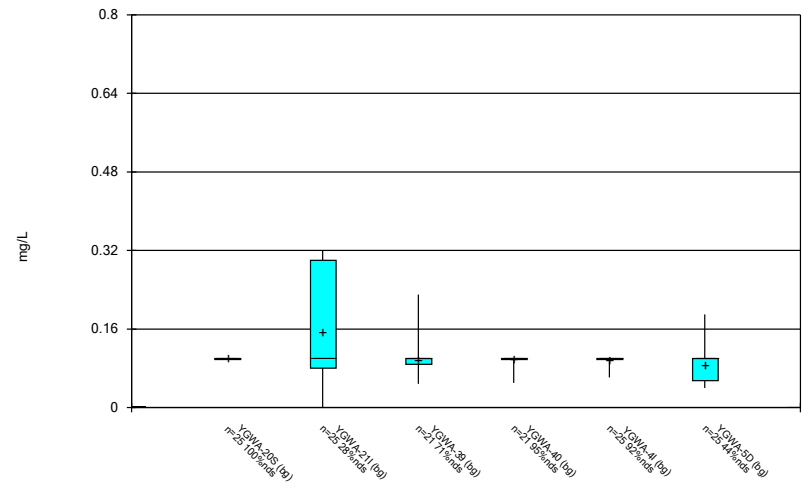
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### Box & Whiskers Plot



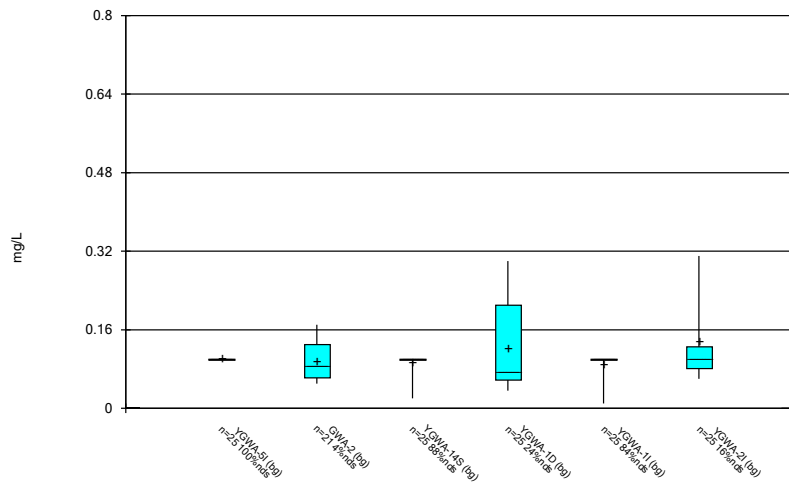
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### Box & Whiskers Plot



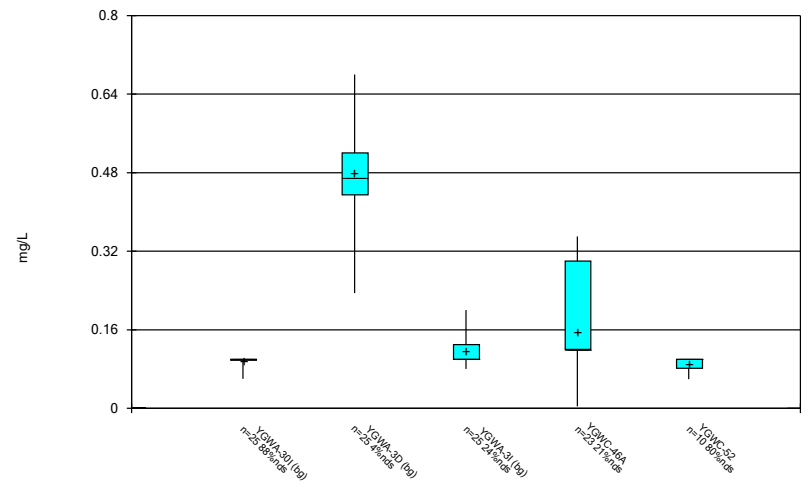
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



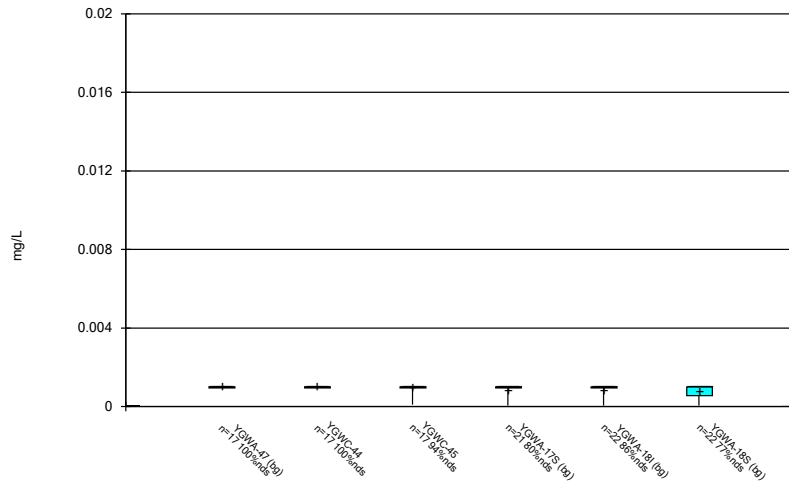
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



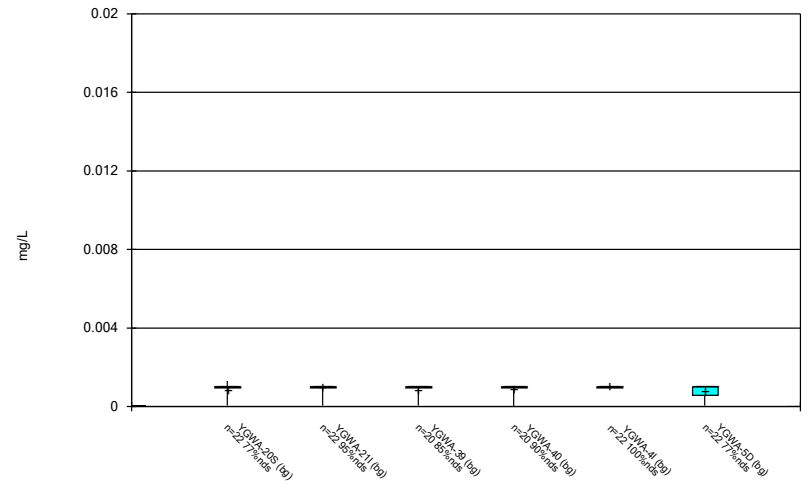
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



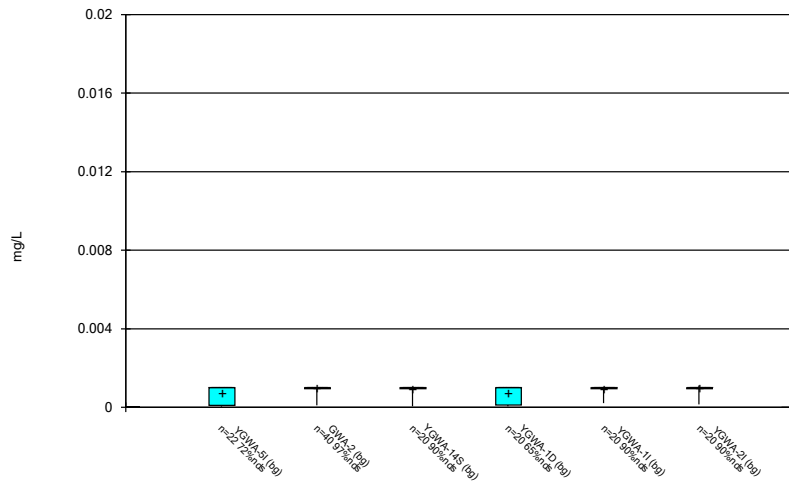
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Box & Whiskers Plot



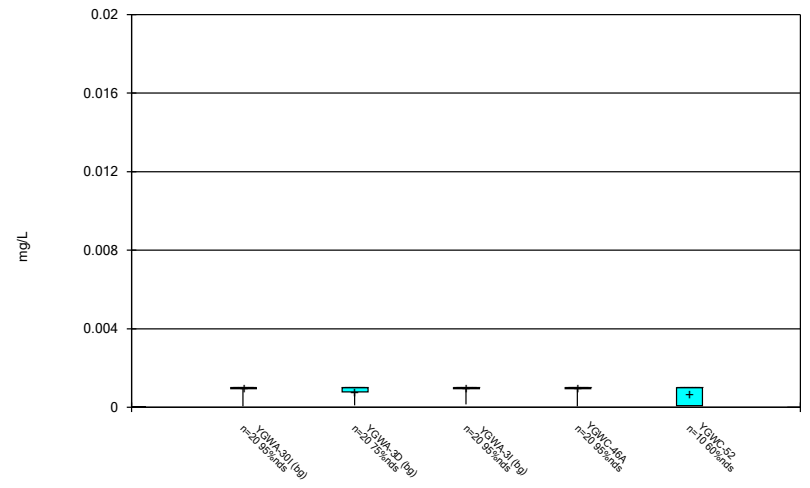
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



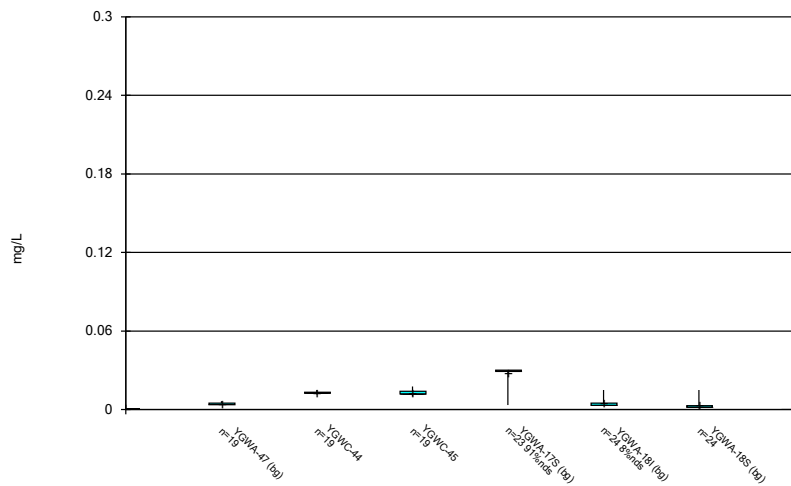
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



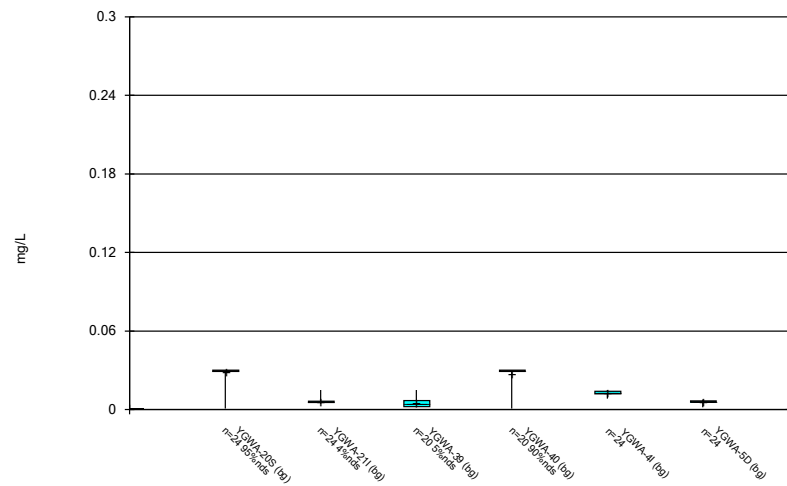
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



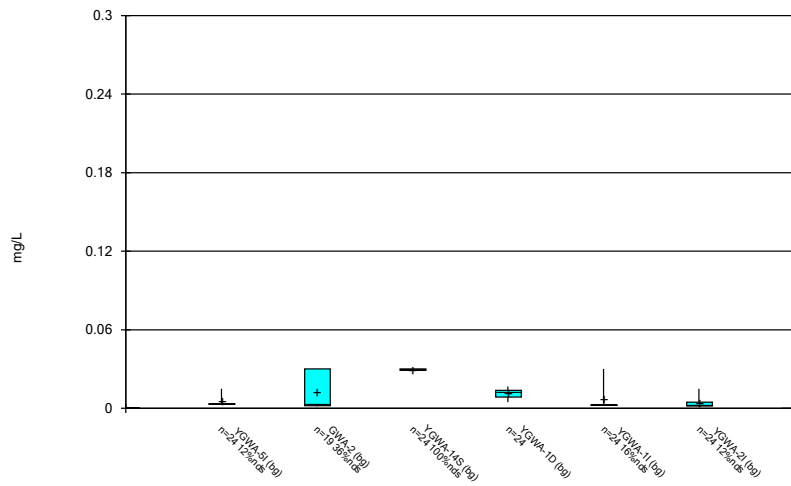
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Box & Whiskers Plot



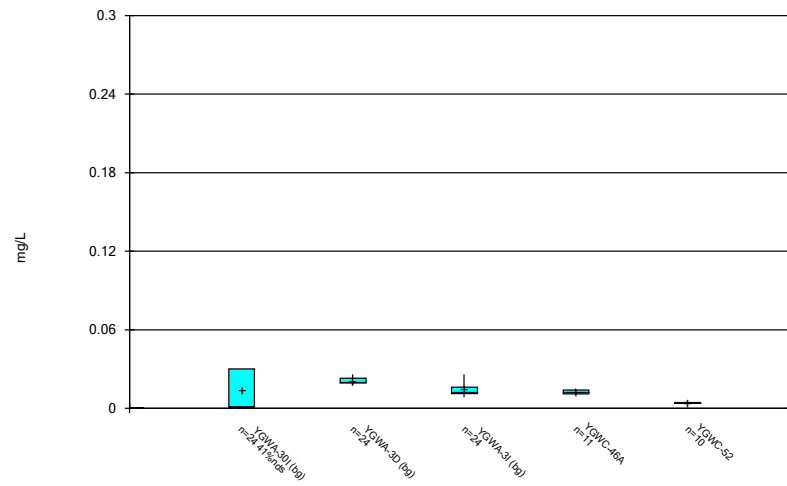
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Box & Whiskers Plot



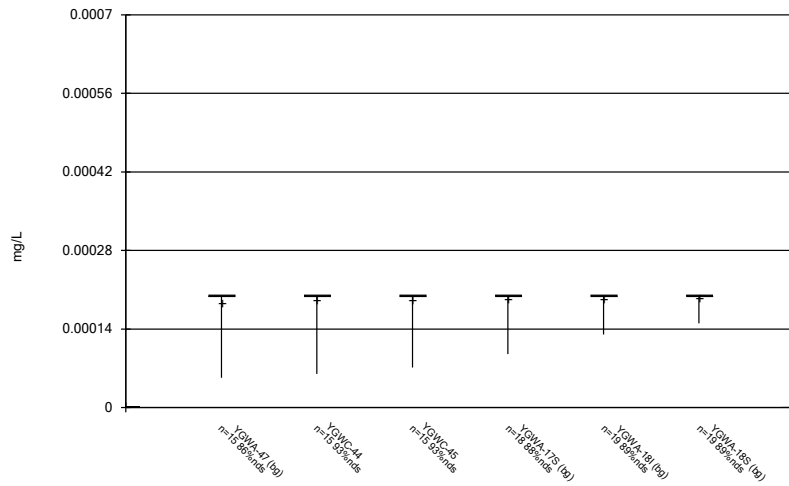
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Box & Whiskers Plot



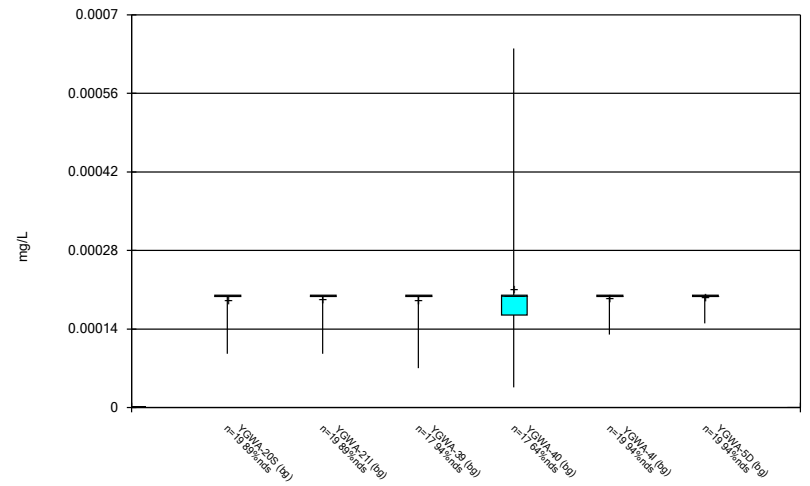
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### Box & Whiskers Plot



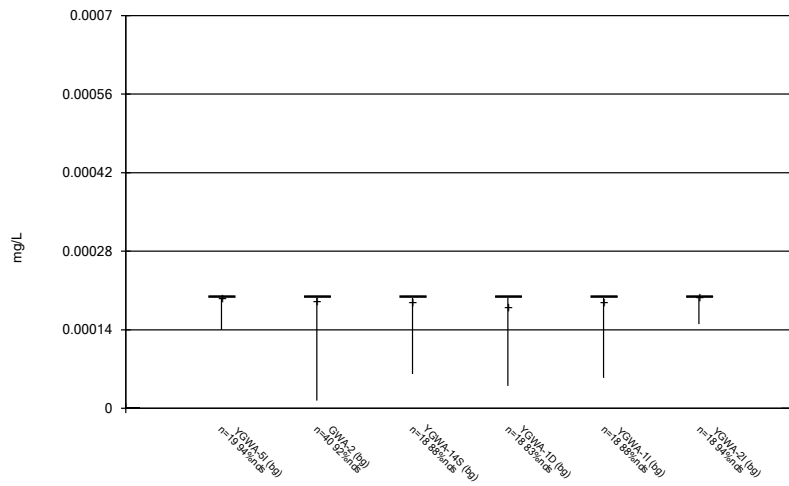
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### Box & Whiskers Plot



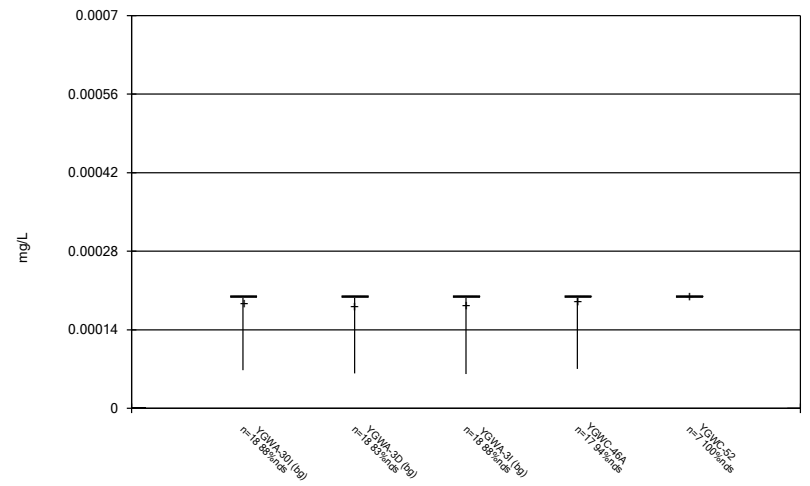
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### Box & Whiskers Plot



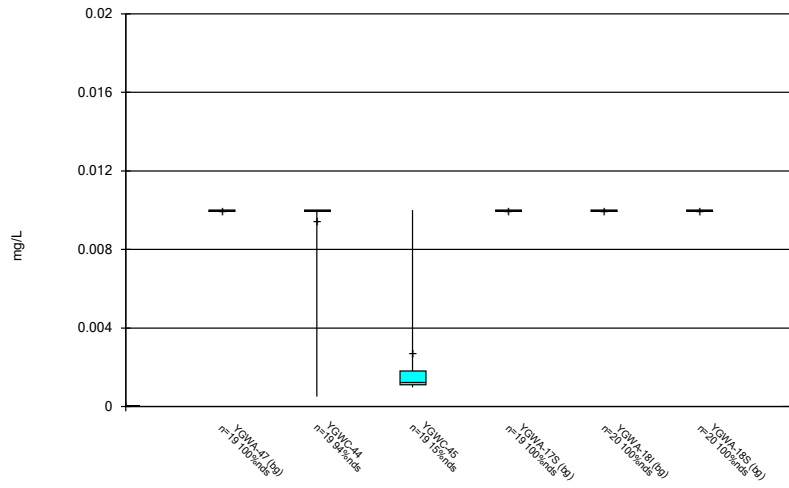
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



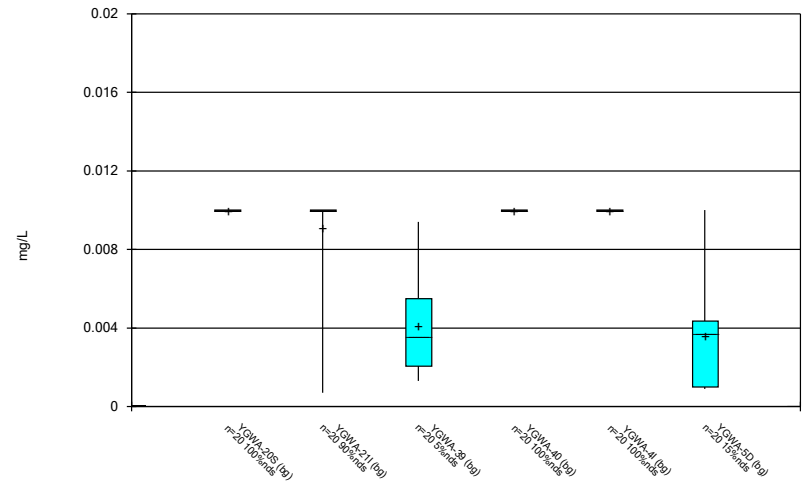
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### Box & Whiskers Plot



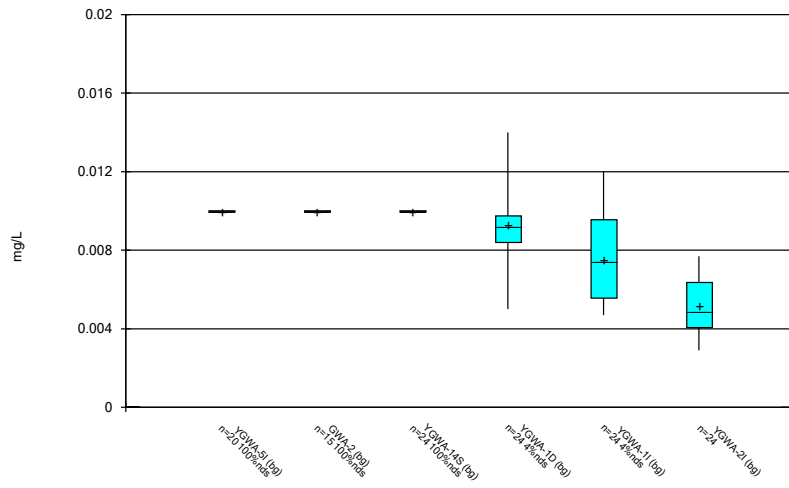
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



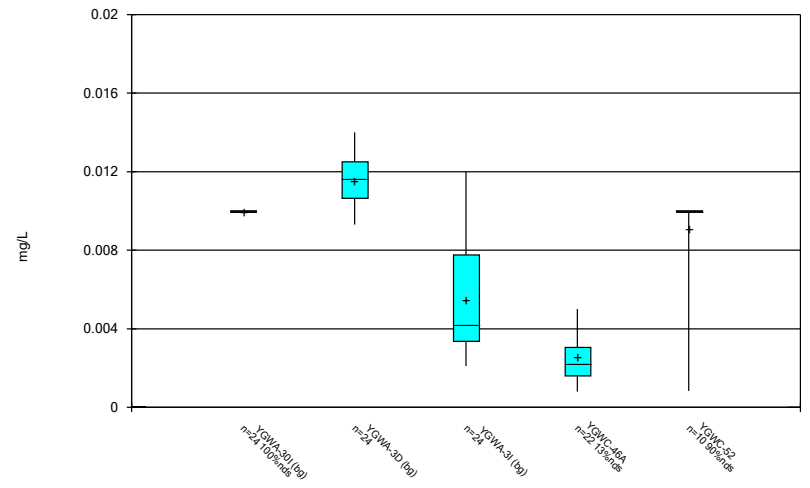
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



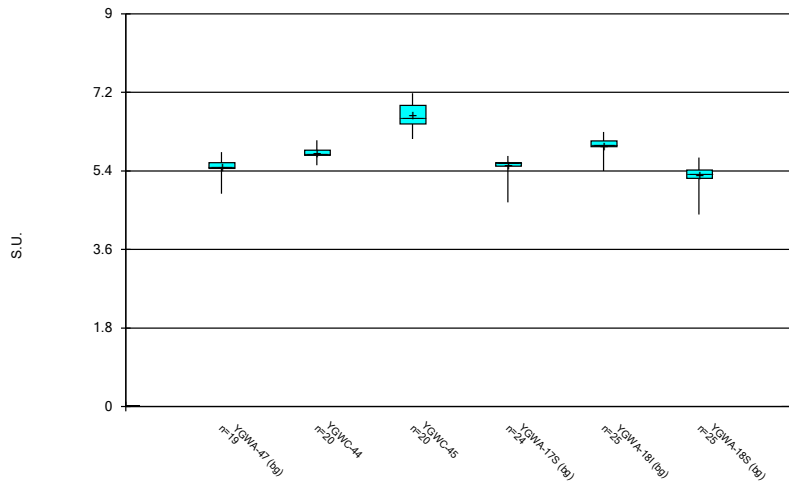
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



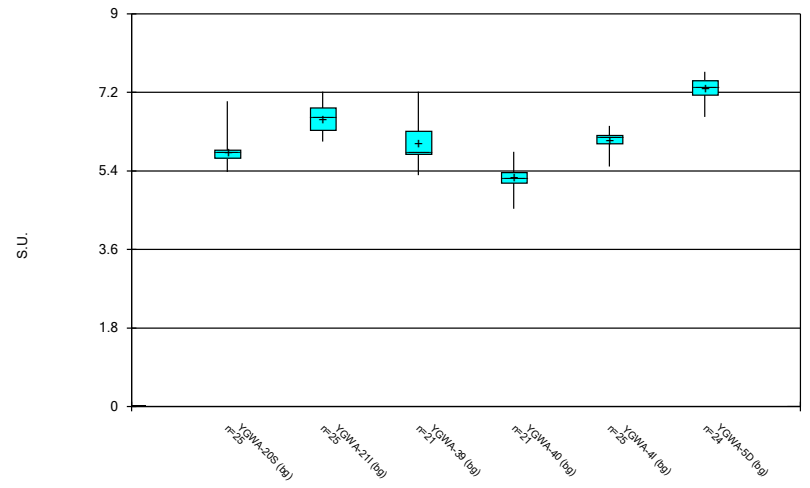
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



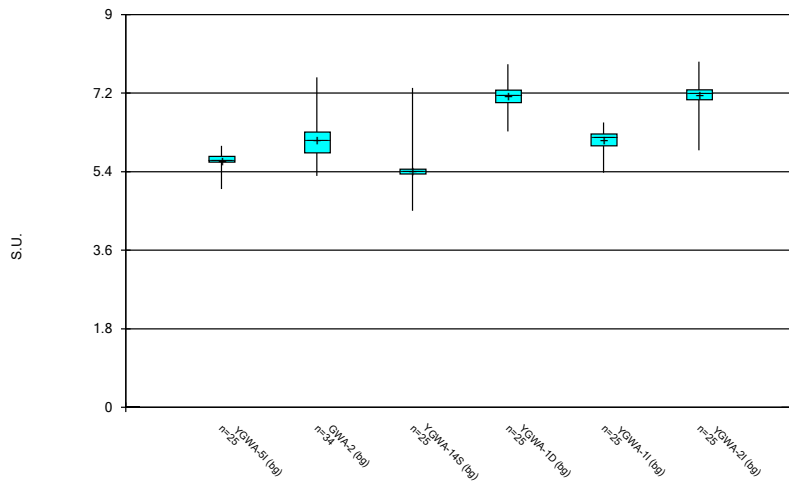
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



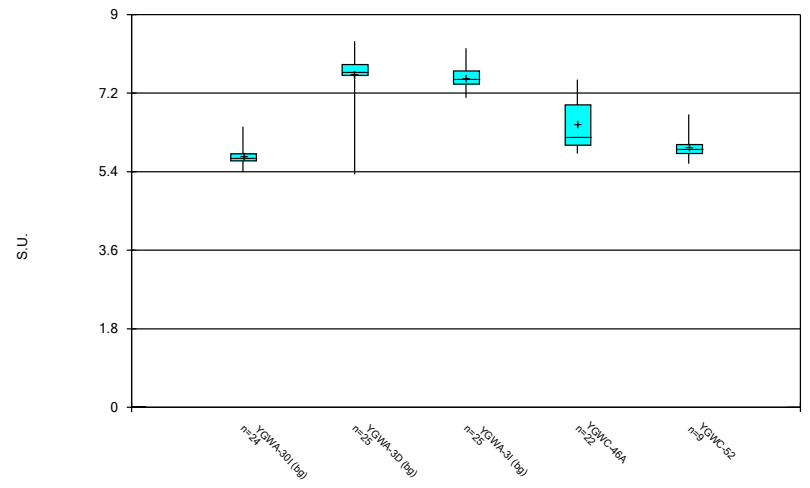
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### Box & Whiskers Plot



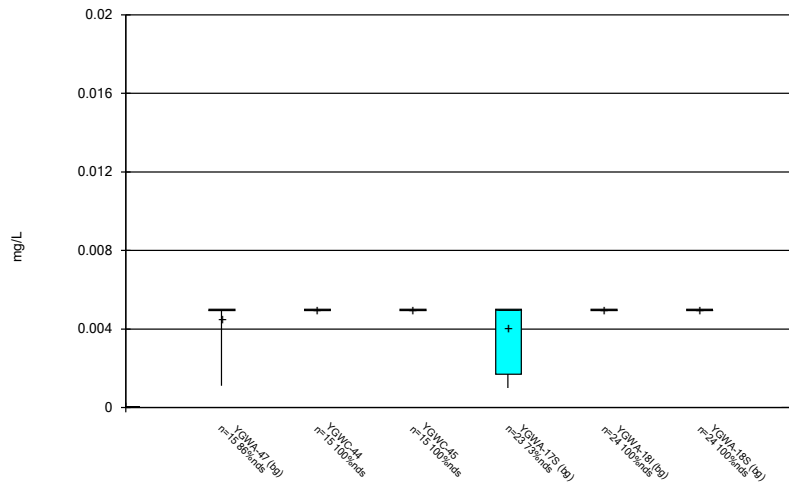
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



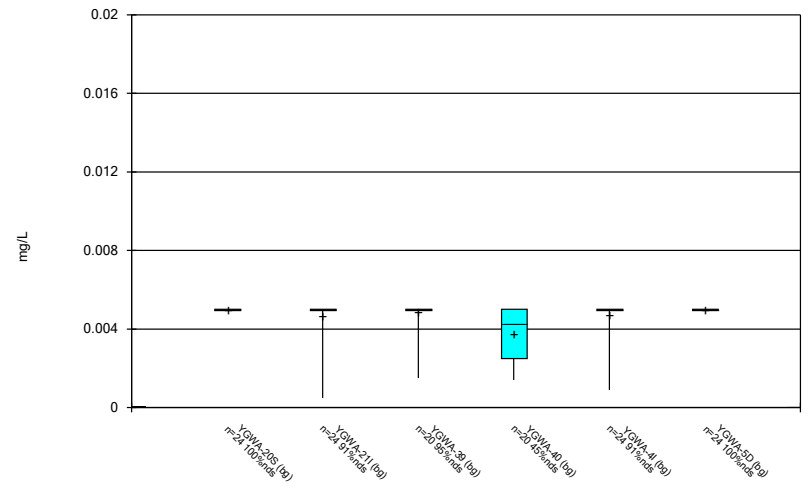
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



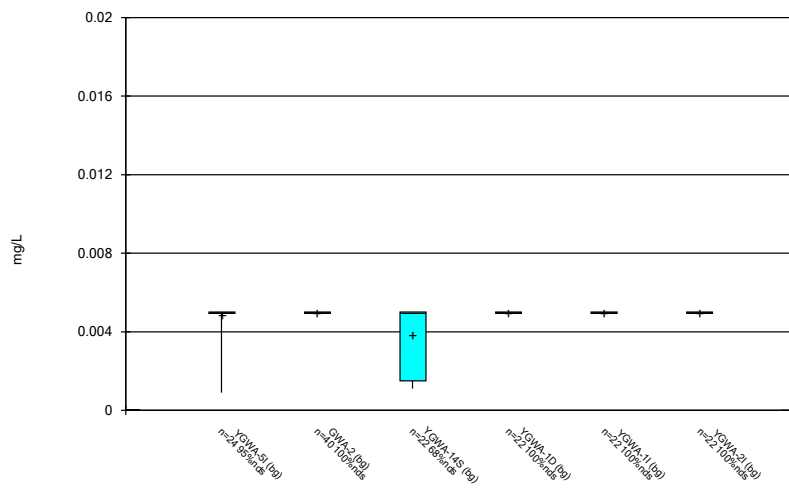
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Box & Whiskers Plot



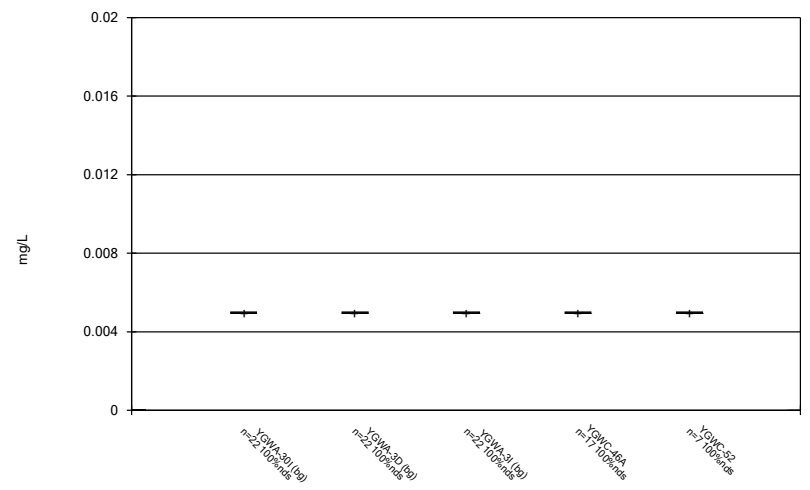
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Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/9/2023 6:06 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

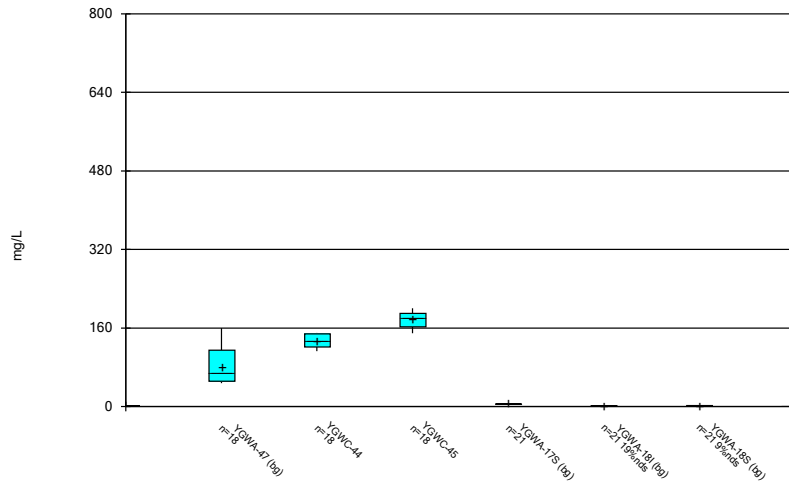
Box & Whiskers Plot



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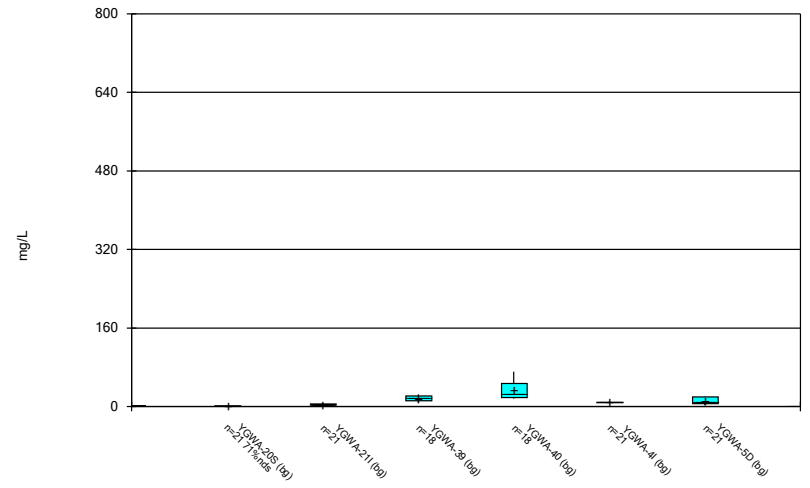


Box & Whiskers Plot



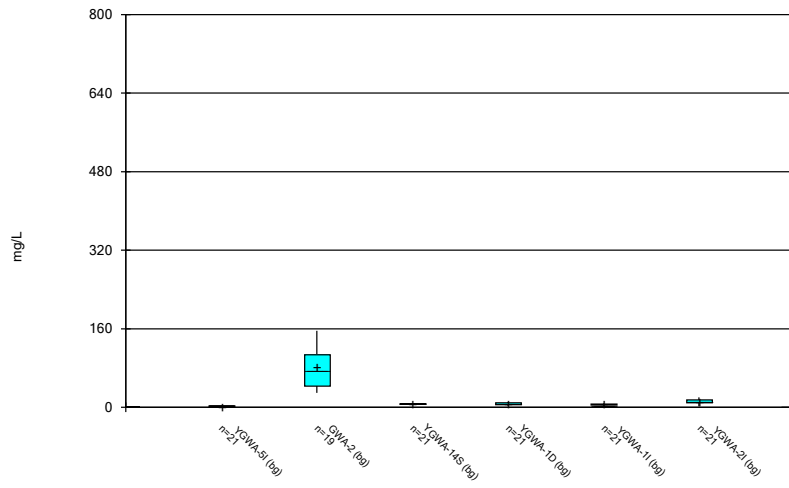
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Box & Whiskers Plot



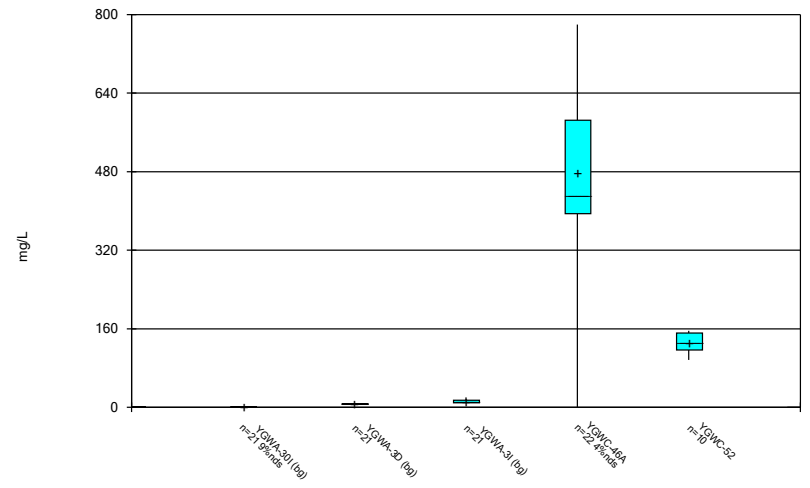
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Box & Whiskers Plot



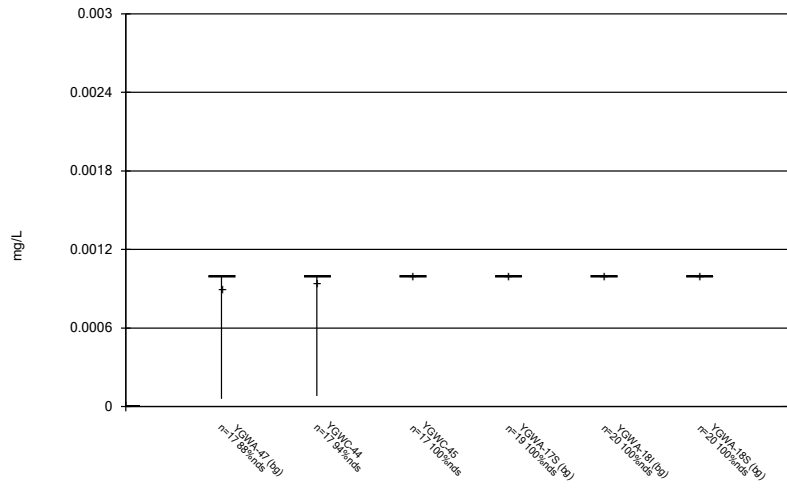
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Box & Whiskers Plot



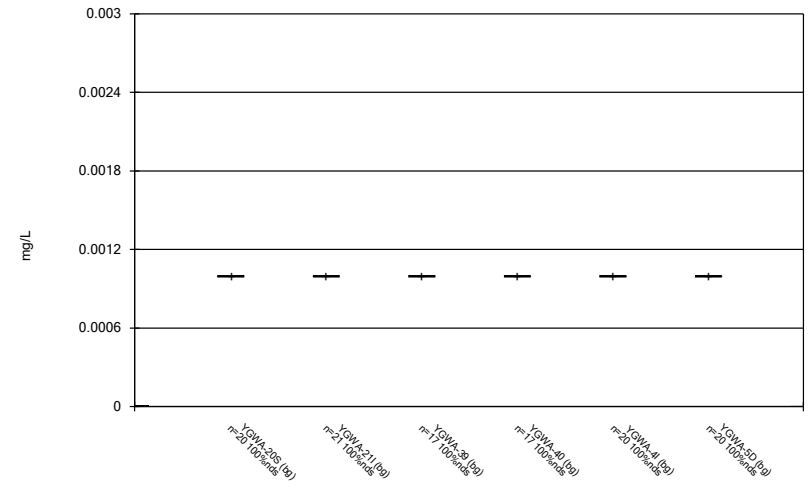
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### Box & Whiskers Plot



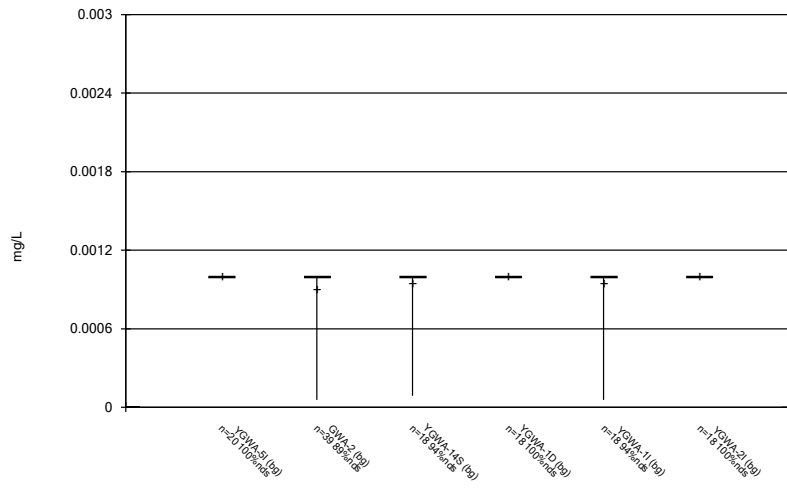
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



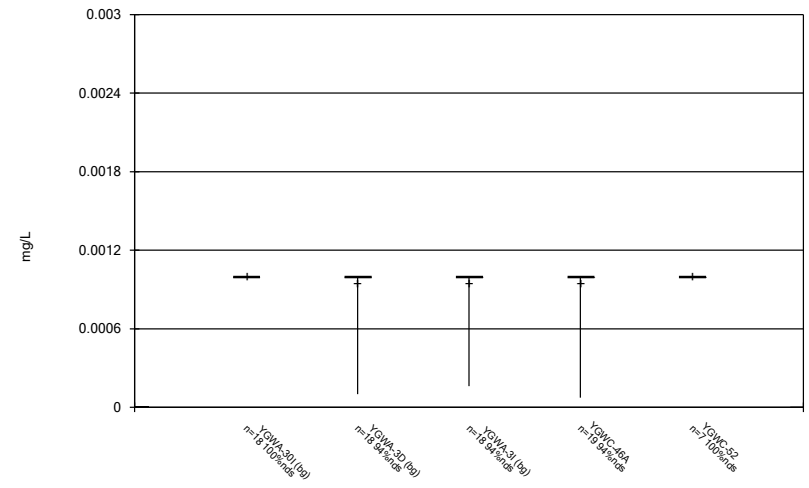
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



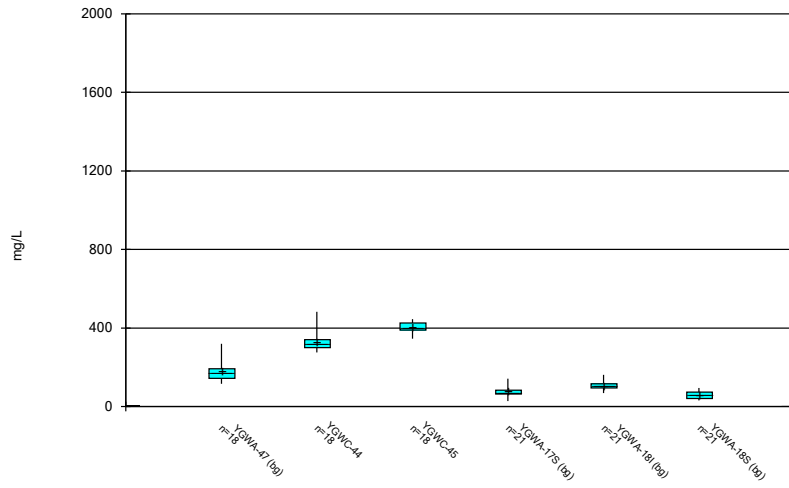
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



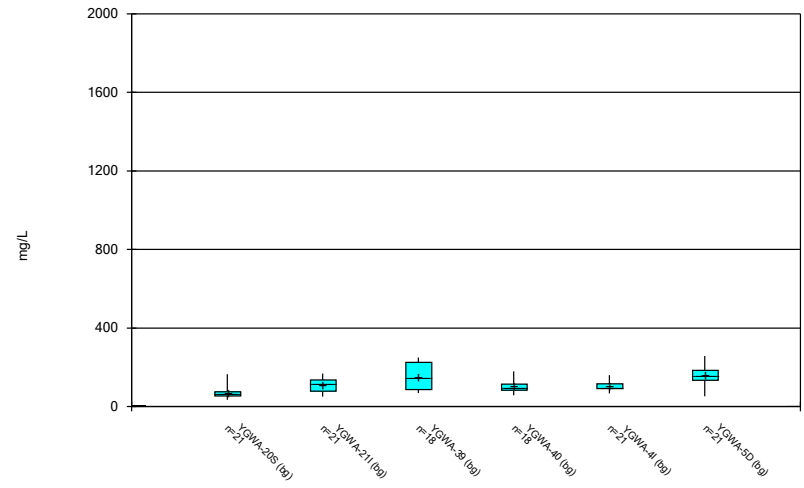
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



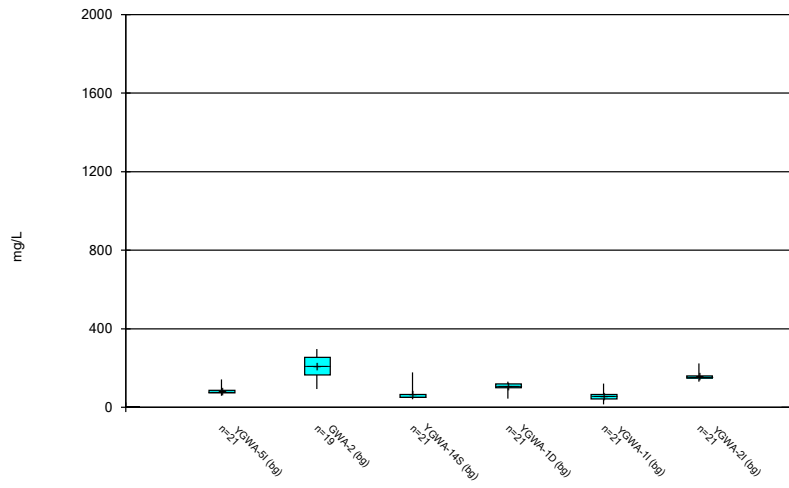
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:06 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



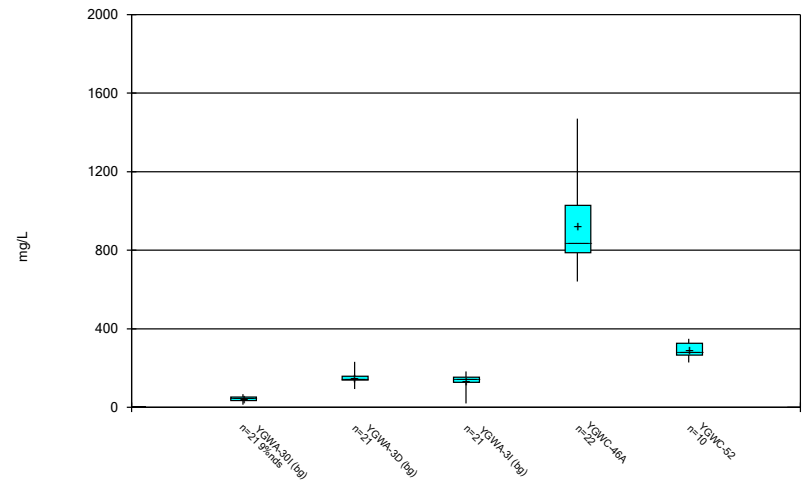
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:06 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:06 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

FIGURE C.

# Outlier Summary

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/9/2023, 6:09 PM

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	YGWC-45 Cobalt (mg/L)	GWA-2 Cobalt (mg/L)	YGWA-47 pH, Field (S.U.)
4/2/2018			6.3 (O)
4/3/2018	<0.01 (O)		
8/26/2020	0.2 (O)		
9/22/2020	0.16 (O)		
3/2/2021	0.21 (O)		
8/20/2021	0.074 (O)		
2/8/2022	0.072 (O)		
8/30/2022	0.075 (O)		

FIGURE D.

# Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/9/2023, 6:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform Alpha	Method
Boron, total (mg/L)	YGWC-44	0.16	n/a	8/15/2023	0.6	Yes	388	51.03	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
Boron, total (mg/L)	YGWC-45	0.16	n/a	8/15/2023	0.36	Yes	388	51.03	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
Boron, total (mg/L)	YGWC-46A	0.16	n/a	8/15/2023	2.1	Yes	388	51.03	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	YGWC-45	37	n/a	8/15/2023	46.3	Yes	388	0.7732	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
Calcium, total (mg/L)	YGWC-46A	37	n/a	8/15/2023	111	Yes	388	0.7732	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	YGWC-44	12	n/a	8/15/2023	13.4	Yes	388	0	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	YGWC-46A	12	n/a	8/15/2023	32.2	Yes	388	0	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	YGWC-46A	160	n/a	8/15/2023	419	Yes	388	5.928	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-44	220.5	n/a	8/15/2023	319	Yes	388	0.5155	None	x^(1/3)	0.00188 Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-45	220.5	n/a	8/15/2023	404	Yes	388	0.5155	None	x^(1/3)	0.00188 Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-46A	220.5	n/a	8/15/2023	945	Yes	388	0.5155	None	x^(1/3)	0.00188 Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-52	220.5	n/a	8/15/2023	267	Yes	388	0.5155	None	x^(1/3)	0.00188 Param Inter 1 of 2

# Appendix III Interwell Prediction Limits - All Results

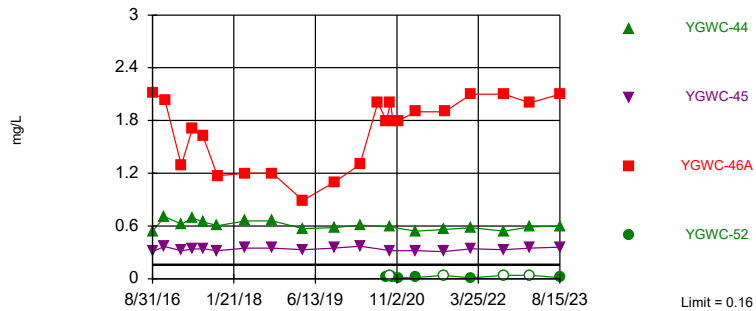
Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/9/2023, 6:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform Alpha	Method
<b>Boron, total (mg/L)</b>	<b>YGWC-44</b>	<b>0.16</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>0.6</b>	<b>Yes</b>	<b>388</b>	<b>51.03</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>YGWC-45</b>	<b>0.16</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>0.36</b>	<b>Yes</b>	<b>388</b>	<b>51.03</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (NDs) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>YGWC-46A</b>	<b>0.16</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>2.1</b>	<b>Yes</b>	<b>388</b>	<b>51.03</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (NDs) 1 of 2</b>
Boron, total (mg/L)	YGWC-52	0.16	n/a	8/15/2023	0.014J	No	388	51.03	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	YGWC-44	37	n/a	8/15/2023	30	No	388	0.7732	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>YGWC-45</b>	<b>37</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>46.3</b>	<b>Yes</b>	<b>388</b>	<b>0.7732</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>YGWC-46A</b>	<b>37</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>111</b>	<b>Yes</b>	<b>388</b>	<b>0.7732</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (normality) 1 of 2</b>
Calcium, total (mg/L)	YGWC-52	37	n/a	8/15/2023	34.6	No	388	0.7732	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
<b>Chloride, Total (mg/L)</b>	<b>YGWC-44</b>	<b>12</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>13.4</b>	<b>Yes</b>	<b>388</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (normality) 1 of 2</b>
Chloride, Total (mg/L)	YGWC-45	12	n/a	8/15/2023	5.6	No	388	0	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
<b>Chloride, Total (mg/L)</b>	<b>YGWC-46A</b>	<b>12</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>32.2</b>	<b>Yes</b>	<b>388</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (normality) 1 of 2</b>
Chloride, Total (mg/L)	YGWC-52	12	n/a	8/15/2023	3	No	388	0	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	YGWC-44	0.68	n/a	8/15/2023	0.1ND	No	457	64.33	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-45	0.68	n/a	8/15/2023	0.07J	No	457	64.33	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-46A	0.68	n/a	8/15/2023	0.12	No	457	64.33	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-52	0.68	n/a	8/15/2023	0.1ND	No	457	64.33	n/a	n/a	0.00004922 NP Inter (NDs) 1 of 2
pH, Field (S.U.)	YGWC-44	8.39	4.4	8/15/2023	5.79	No	467	0	n/a	n/a	0.00009844 NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-45	8.39	4.4	8/15/2023	6.97	No	467	0	n/a	n/a	0.00009844 NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-46A	8.39	4.4	8/15/2023	7.51	No	467	0	n/a	n/a	0.00009844 NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-52	8.39	4.4	8/15/2023	6.05	No	467	0	n/a	n/a	0.00009844 NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	YGWC-44	160	n/a	8/15/2023	113	No	388	5.928	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	YGWC-45	160	n/a	8/15/2023	154	No	388	5.928	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWC-46A</b>	<b>160</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>419</b>	<b>Yes</b>	<b>388</b>	<b>5.928</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922 NP Inter (normality) 1 of 2</b>
Sulfate as SO4 (mg/L)	YGWC-52	160	n/a	8/15/2023	96.5	No	388	5.928	n/a	n/a	0.00004922 NP Inter (normality) 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-44</b>	<b>220.5</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>319</b>	<b>Yes</b>	<b>388</b>	<b>0.5155</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.00188 Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-45</b>	<b>220.5</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>404</b>	<b>Yes</b>	<b>388</b>	<b>0.5155</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.00188 Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-46A</b>	<b>220.5</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>945</b>	<b>Yes</b>	<b>388</b>	<b>0.5155</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.00188 Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-52</b>	<b>220.5</b>	<b>n/a</b>	<b>8/15/2023</b>	<b>267</b>	<b>Yes</b>	<b>388</b>	<b>0.5155</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.00188 Param Inter 1 of 2</b>



Exceeds Limit: YGWC-44, YGWC-45,  
YGWC-46A

Prediction Limit  
Interwell Non-parametric

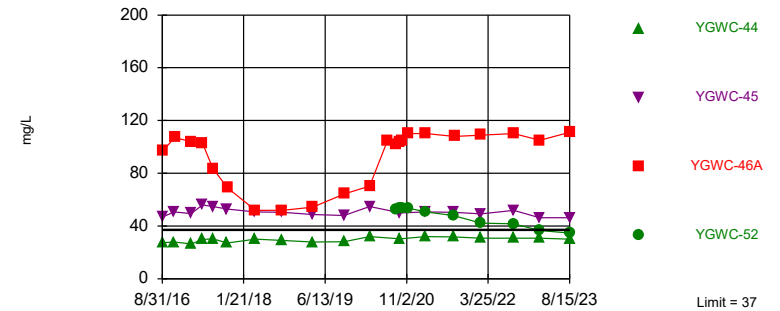


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 388 background values. 51.03% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Boron, total Analysis Run 10/9/2023 6:10 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Exceeds Limit: YGWC-45, YGWC-46A

Prediction Limit  
Interwell Non-parametric

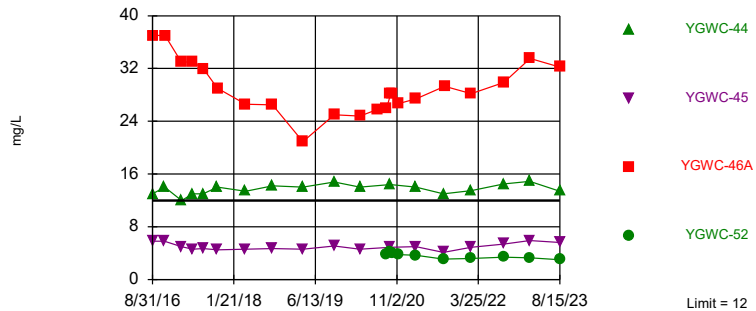


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 388 background values. 0.7732% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Calcium, total Analysis Run 10/9/2023 6:10 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Exceeds Limit: YGWC-44, YGWC-46A

Prediction Limit  
Interwell Non-parametric

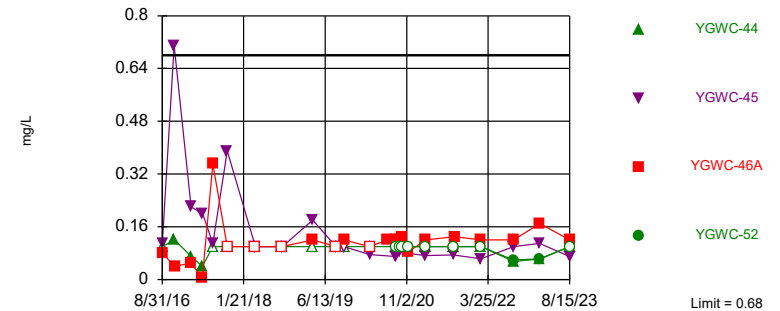


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 388 background values. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Chloride, Total Analysis Run 10/9/2023 6:10 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Within Limit

Prediction Limit  
Interwell Non-parametric

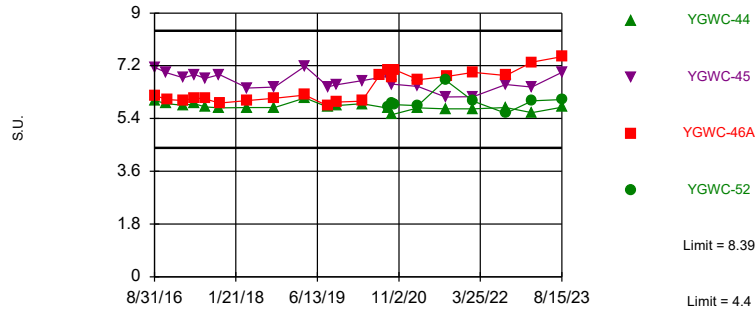


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 457 background values. 64.33% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Fluoride, total Analysis Run 10/9/2023 6:10 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Within Limits

Prediction Limit  
Interwell Non-parametric

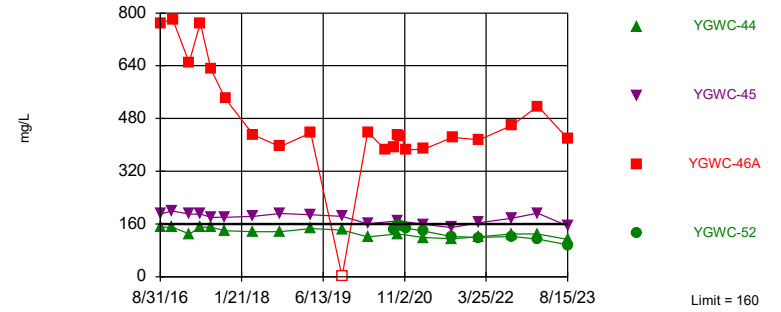


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 467 background values. Annual per-constituent alpha = 0.0007874. Individual comparison alpha = 0.00009844 (1 of 2). Comparing 4 points to limit.

Constituent: pH, Field Analysis Run 10/9/2023 6:10 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Exceeds Limit: YGWC-46A

Prediction Limit  
Interwell Non-parametric

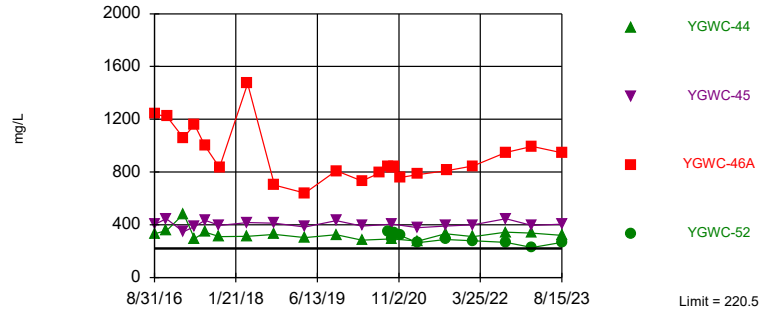


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 388 background values. 5.928% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:10 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Exceeds Limit: YGWC-44, YGWC-45, YGWC-46A, YGWC-52

Prediction Limit  
Interwell Parametric



Background Data Summary (based on cube root transformation): Mean=4.653, Std. Dev.=0.8034, n=388, 0.5155% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.05, critical = 14.07. Kappa = 1.728 (c=7, w=4, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.00188. Comparing 4 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:10 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
7/25/2016		<0.04	<0.04						<0.04
7/26/2016	0.0055 (J)			<0.04	0.0052 (J)	0.0097 (J)	0.0047 (J)	0.0177 (J)	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	<0.04	<0.04							
9/14/2016			<0.04	0.01 (J)	0.0071 (J)		<0.04		
9/15/2016						0.0102 (J)		0.0214 (J)	
9/16/2016									
9/19/2016									<0.04
11/1/2016	0.0086 (J)		<0.04			<0.04			<0.04
11/2/2016					<0.04		<0.04	<0.04	
11/3/2016									
11/4/2016		<0.04		<0.04					
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017								0.0198 (J)	
1/11/2017	0.0074 (J)		<0.04			<0.04			
1/12/2017				<0.04	0.0076 (J)				
1/13/2017							<0.04		
1/16/2017		<0.04							<0.04
2/21/2017									<0.04
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			<0.04						
3/2/2017	0.008 (J)	<0.04				0.0084 (J)			
3/3/2017									
3/6/2017							<0.04		
3/7/2017				<0.04	0.0089 (J)				
3/8/2017								0.0189 (J)	
4/26/2017			<0.04			<0.04		0.0161 (J)	<0.04
4/27/2017	0.0066 (J)	<0.04							
4/28/2017									
5/1/2017					0.0061 (J)		<0.04		
5/2/2017				<0.04					
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	0.0087 (J)	0.006 (J)		<0.04	0.0079 (J)				
6/28/2017			<0.04			<0.04			
6/29/2017							<0.04		

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/30/2017								0.0173 (J)	<0.04
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	0.0072 (J)	0.0071 (J)		<0.04	0.0094 (J)				
10/4/2017			<0.04			<0.04			<0.04
10/5/2017							<0.04	0.0173 (J)	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018	0.0052 (J)								
6/6/2018		<0.04			0.0098 (J)				
6/7/2018				<0.04		0.004 (J)	0.0045 (J)		
6/8/2018			<0.04					0.013 (J)	
6/11/2018									0.014 (J)
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				0.0057 (J)	0.01 (J)		0.005 (J)		
10/1/2018	0.021 (J)	0.0049 (J)	<0.04			<0.04		0.015 (J)	
10/2/2018									<0.04
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	0.005 (J)	<0.04							
3/29/2019								0.014 (J)	
4/1/2019			<0.04			<0.04			<0.04
4/2/2019									
4/3/2019				0.0044 (J)	0.0076 (J)		0.0055 (J)		
6/12/2019									
9/24/2019	0.0064 (J)	0.0055 (J)		0.0049 (J)	0.01 (J)				
9/25/2019			<0.04			0.0054 (J)	<0.04	0.018 (J)	<0.04
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		0.0087 (J)						0.02 (J)	
3/19/2020	0.0085 (J)		0.0053 (J)			0.0073 (J)			0.0052 (J)
3/24/2020				0.0068 (J)	0.011 (J)				
3/25/2020							0.011 (J)		

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				0.0053 (J)	0.0079 (J)		<0.04		
9/23/2020	<0.04	<0.04	0.0073 (J)			0.012 (J)			
9/24/2020									0.0075 (J)
9/25/2020								0.02 (J)	
10/7/2020									
11/12/2020									
3/1/2021									<0.04
3/2/2021				0.011 (J)	0.0068 (J)			0.017 (J)	
3/3/2021	<0.04	<0.04	<0.04			<0.04	0.0056 (J)		
3/4/2021									
8/19/2021	<0.04	<0.04				<0.04		0.018 (J)	<0.04
8/20/2021									
8/26/2021				<0.04	0.009 (J)		<0.04		
8/27/2021			<0.04						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04			0.01 (J)			
2/10/2022				<0.04	0.011 (J)			0.02 (J)	
2/11/2022							<0.04		<0.04
8/30/2022	<0.04			<0.04	0.0098 (J)				
8/31/2022		<0.04	<0.04			<0.04	<0.04	0.015 (J)	<0.04
2/7/2023	<0.04	<0.04			<0.04				
2/8/2023			<0.04			<0.04		0.015 (J)	<0.04
2/9/2023				<0.04			<0.04		
2/10/2023									
8/15/2023	<0.04	0.0094 (J)		<0.04	<0.04	<0.04	<0.04	0.017 (J)	
8/16/2023			<0.04						<0.04

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	GWA-2 (bg)	YGWC-45
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
7/25/2016									
7/26/2016									
7/27/2016	<0.04	0.0059 (J)	0.008 (J)		<0.04				
7/28/2016				<0.04					
8/30/2016						0.0166 (J)			
8/31/2016							0.541	0.0315 (J)	0.308
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		0.0079 (J)	0.0086 (J)						
9/19/2016	<0.04			<0.04	<0.04				
11/1/2016									
11/2/2016					<0.04				
11/3/2016	<0.04	0.0082 (J)	0.0077 (J)	<0.04					
11/4/2016									
11/14/2016						0.0166 (J)			0.368
11/15/2016							0.706		
11/16/2016									
11/28/2016								0.0095 (J)	
12/15/2016									
1/10/2017									
1/11/2017	<0.04	0.0096 (J)	0.0092 (J)						
1/12/2017									
1/13/2017				<0.04	<0.04				
1/16/2017									
2/21/2017									
2/22/2017								<0.04	
2/24/2017						0.0145 (J)			
2/27/2017									0.321
2/28/2017							0.623		
3/1/2017	<0.04	<0.04							
3/2/2017			0.0095 (J)						
3/3/2017									
3/6/2017				<0.04	<0.04				
3/7/2017									
3/8/2017									
4/26/2017	<0.04	0.0091 (J)		<0.04	<0.04				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			<0.04						
5/8/2017						0.0141 (J)	0.69	0.0084 (J)	
5/9/2017									0.338
5/26/2017									
6/27/2017									
6/28/2017	<0.04	0.0079 (J)							
6/29/2017			0.0074 (J)	<0.04	<0.04				

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	GWA-2 (bg)	YGWC-45
6/30/2017									
7/11/2017						0.0131 (J)			
7/13/2017							0.649		0.34
7/17/2017								0.0092 (J)	
10/3/2017				<0.04					
10/4/2017		0.009 (J)	0.0077 (J)		<0.04				
10/5/2017	<0.04								
10/10/2017						0.0124 (J)	0.603		0.319
10/11/2017									
10/12/2017									
10/16/2017								<0.04	
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								<0.04	
2/20/2018									
4/2/2018						0.013 (J)			
4/3/2018									0.35
4/4/2018							0.66		
6/5/2018				0.0092 (J)					
6/6/2018					0.0049 (J)				
6/7/2018	<0.04								
6/8/2018									
6/11/2018		0.0093 (J)	0.01 (J)						
6/28/2018									
8/6/2018								<0.04	
8/7/2018									
9/19/2018						0.012 (J)	0.66		0.35
9/24/2018									
9/25/2018	0.0046 (J)	0.007 (J)	0.0096 (J)	0.0054 (J)	<0.04				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								<0.04	
3/26/2019									
3/27/2019						0.013 (J)	0.57		0.33
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.0066 (J)	0.011 (J)					
4/3/2019	<0.04	0.0053 (J)			<0.04				
6/12/2019								<0.04	
9/24/2019				0.018 (J)					
9/25/2019			0.0081 (J)		<0.04				
9/26/2019	0.0062 (J)	0.0072 (J)							
10/8/2019						0.012 (J)	0.58	<0.04	
10/9/2019									0.35
3/17/2020						0.023 (J)	0.61	0.0051 (J)	0.37
3/18/2020									
3/19/2020									
3/24/2020	0.0054 (J)	0.01 (J)	0.0092 (J)	0.016 (J)	<0.04				
3/25/2020									

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	GWA-2 (bg)	YGWC-45
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						0.0076 (J)	0.59	0.0079 (J)	
9/23/2020	0.021 (J)	0.006 (J)	0.0066 (J)						0.32
9/24/2020				0.013 (J)	0.0094 (J)				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						0.013 (J)	0.54		0.32
3/2/2021								<0.04	
3/3/2021	<0.04	0.0094 (J)	0.01 (J)		<0.04				
3/4/2021				0.0079 (J)					
8/19/2021						0.011 (J)	0.56		0.31
8/20/2021								<0.04	
8/26/2021		<0.04							
8/27/2021	<0.04		0.011 (J)		<0.04				
9/1/2021				<0.04					
9/3/2021									
2/8/2022						0.015 (J)		<0.04	
2/9/2022	<0.04	<0.04	0.0098 (J)	<0.04	<0.04		0.58		0.34
2/10/2022									
2/11/2022									
8/30/2022	<0.04	0.014 (J)	0.013 (J)	0.012 (J)				<0.04	
8/31/2022					<0.04	0.0091 (J)	0.54		0.33
2/7/2023	<0.04	<0.04	0.014 (J)	<0.04	<0.04			<0.04	
2/8/2023						0.011 (J)	0.59		
2/9/2023									0.35
2/10/2023									
8/15/2023	<0.04	<0.04	<0.04	0.046 (J)	<0.04	<0.04	0.6	<0.04	0.36
8/16/2023									



# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	2.12				
9/13/2016					
9/14/2016		<0.04			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		<0.04			
11/14/2016					
11/15/2016					
11/16/2016	2.03				
11/28/2016					
12/15/2016		0.0107 (J)			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		<0.04			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	1.29				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		<0.04			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		<0.04			
5/1/2017					
5/2/2017					
5/8/2017	1.71				
5/9/2017					
5/26/2017		<0.04			
6/27/2017					
6/28/2017		<0.04			
6/29/2017					

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	1.62				
7/17/2017					
10/3/2017		<0.04			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	1.17		0.0135 (J)		
10/12/2017				0.0401	
10/16/2017					
11/20/2017			0.0251 (J)	0.156	
1/10/2018				0.15	
1/11/2018			0.0255 (J)		
2/19/2018				0.146	
2/20/2018			<0.04		
4/2/2018					
4/3/2018			0.033 (J)	0.12	
4/4/2018	1.2				
6/5/2018					
6/6/2018					
6/7/2018		<0.04			
6/8/2018					
6/11/2018					
6/28/2018			0.053	0.16	
8/6/2018					
8/7/2018			0.024 (J)	0.12	
9/19/2018	1.2				
9/24/2018			0.028 (J)	0.099	
9/25/2018					
9/26/2018					
10/1/2018		<0.04			
10/2/2018					
2/25/2019					
3/26/2019				0.096	
3/27/2019	0.89		0.017 (J)		
3/28/2019					
3/29/2019		0.0065 (J)			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		0.0076 (J)			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	1.1		0.017 (J)	0.079	
3/17/2020	1.3				
3/18/2020					
3/19/2020		0.0073 (J)			
3/24/2020				0.088 (J)	
3/25/2020			0.043 (J)		

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	2				
8/27/2020					0.014 (J)
8/28/2020	1.8				
9/22/2020					<0.04
9/23/2020	2	<0.04			
9/24/2020			0.037 (J)	0.087 (J)	
9/25/2020					
10/7/2020	1.8				0.018 (J)
11/12/2020	1.8				0.012 (J)
3/1/2021					0.015 (J)
3/2/2021	1.9				
3/3/2021		<0.04			
3/4/2021			0.033 (J)	0.078	
8/19/2021					
8/20/2021					<0.04
8/26/2021			0.095		
8/27/2021	1.9	<0.04			
9/1/2021					
9/3/2021				0.077	
2/8/2022			0.13	0.074	
2/9/2022	2.1	<0.04			0.0089 (J)
2/10/2022					
2/11/2022					
8/30/2022		<0.04			
8/31/2022	2.1		0.14	0.062	<0.04
2/7/2023		<0.04	0.13		
2/8/2023				0.057	
2/9/2023					
2/10/2023	2				<0.04
8/15/2023	2.1	<0.04	0.15 (J)	0.052 (J)	0.014 (J)
8/16/2023					

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/1/2016	12	2.5	21						
6/2/2016				2.4	33	28	8.8	1.3	1.3
6/6/2016									
6/7/2016									
7/25/2016		2.16	20.3						1.17
7/26/2016	11			2.12	32.3	24.5	7.69	1.24	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	11.8	2.21							
9/14/2016			19.7	2.18	31		8.49		
9/15/2016						27		1.17	
9/16/2016									
9/19/2016									1.05
11/1/2016	11		18.4			25.6			1.14
11/2/2016					30.9		7.83	1.23	
11/3/2016									
11/4/2016		2.67		2.17 (J)					
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017								1.24	
1/11/2017	11.2		20.3			27.5			
1/12/2017				2.37	35.7				
1/13/2017							8.08		
1/16/2017		2.45							1.23
2/21/2017									1.25
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			18.6						
3/2/2017	11	2.57				27.5			
3/3/2017									
3/6/2017							8.64		
3/7/2017				2.34	32.7				
3/8/2017								1.21	
4/26/2017			25.6			30.4		1.14	1.03
4/27/2017	11.1	2.38							
4/28/2017									
5/1/2017					37		13.4		
5/2/2017				2.17					
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	13.8	2.36		2.13	36.5				
6/28/2017			23.9			29.8			
6/29/2017							8.81		

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/30/2017								1.24	1.13
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	14	2.21		2.15	30.9				
10/4/2017			22.1			29.7			1.09
10/5/2017							9.29	1.11	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018	15.2 (J)								
6/6/2018		2.3			26.2				
6/7/2018				2.3		29.1	8.2		
6/8/2018			21.9 (J)					1.1	
6/11/2018									1.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				2.3	25.8		9.5 (J)		
10/1/2018	15.1	1.8	19.7			26.9		0.99	
10/2/2018									1.1
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	13.3 (J)	2.2							
3/29/2019								1.1	
4/1/2019			20.4 (J)			30.1			1.3
4/2/2019									
4/3/2019				2.8	24.7 (J)		8.4		
6/12/2019									
9/24/2019	15.8	2.3		2.5	25.8				
9/25/2019			22.4			29.5	9.5	1.1	1.1
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		2.1						1.1	
3/19/2020	15		21.9			31.5			1.2
3/24/2020				2.5	26.1				
3/25/2020							10.5		

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				2.6	27.2		9.6		
9/23/2020	14.1	1.8	23.6			28.6			
9/24/2020									1.1
9/25/2020								1.3	
10/7/2020									
11/12/2020									
3/1/2021									1.2
3/2/2021				2.6	1.6			1.2	
3/3/2021	14.1	1.8	20.6			29.8	7.7		
3/4/2021									
8/19/2021	14.2	2				28.1		1.2	1.2
8/20/2021									
8/26/2021				2.5	25.2		7.6		
8/27/2021			24.7						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	14.9	2.1	23.7			30.3			
2/10/2022				2.5	24.8			1.3	
2/11/2022							7.5		1.5
8/30/2022	14.9			2.5	24.8				
8/31/2022		1.9	23.5			28.7	8.9	1.3	1.3
2/7/2023	15	2.2			26.6				
2/8/2023			23.3			28.9		1.5	1.3
2/9/2023				2.8			9.6		
2/10/2023									
8/15/2023	13.5	1.8		2.6	25	27.4	7.8	1.3	
8/16/2023			24.9						1.4

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	GWA-2 (bg)	YGWC-45
6/1/2016									
6/2/2016									
6/6/2016	6.2	1.4							
6/7/2016			2.2	3.7	2.3				
7/25/2016									
7/26/2016									
7/27/2016	4.73	1.19	2		2.08				
7/28/2016				3.15					
8/30/2016						20.9			
8/31/2016							27.3	9.31	46.7
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.5	1.97						
9/19/2016	4.76			3.17	1.97				
11/1/2016									
11/2/2016					2.13				
11/3/2016	5.25	1.31	1.99	3.4					
11/4/2016									
11/14/2016						18.6			50.6
11/15/2016							27.8		
11/16/2016									
11/28/2016								9.47 (B)	
12/15/2016									
1/10/2017									
1/11/2017	4.74	1.25	2.28						
1/12/2017									
1/13/2017				4.98	2.45				
1/16/2017									
2/21/2017									
2/22/2017								10.4	
2/24/2017						16.1			
2/27/2017									49.4
2/28/2017							26.4		
3/1/2017	5.37	1.26							
3/2/2017			2.15						
3/3/2017									
3/6/2017				6.28	2.48				
3/7/2017									
3/8/2017									
4/26/2017	4.28	1.05		6.65	2.3				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			1.95						
5/8/2017						14.6	29.9	14.2	
5/9/2017									56
5/26/2017									
6/27/2017									
6/28/2017	4.95	1.06							
6/29/2017			2.02	6.04	2.54				

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	GWA-2 (bg)	YGWC-45
6/30/2017									
7/11/2017						14.3			
7/13/2017							30.2		54.8
7/17/2017								14.1	
10/3/2017				8.28					
10/4/2017		1.1	2.03		2.25				
10/5/2017	5.28								
10/10/2017						12.1	27.2		52.8
10/11/2017									
10/12/2017									
10/16/2017								13.6	
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								<25	
2/20/2018									
4/2/2018						<25			
4/3/2018									50.6
4/4/2018							30.1		
6/5/2018				9.1					
6/6/2018					2.3				
6/7/2018	4.8								
6/8/2018									
6/11/2018		1.4	2.1						
6/28/2018									
8/6/2018								11.4 (J)	
8/7/2018									
9/19/2018						11.1 (J)	29.2		50.5
9/24/2018									
9/25/2018	4.6	1	2.1	10.4 (J)	2.3				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								12.7 (J)	
3/26/2019									
3/27/2019						10.8 (J)	27.9		48.8
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			2.5	8.8					
4/3/2019	5.3	1.2			2.9				
6/12/2019								18.9	
9/24/2019				7.7					
9/25/2019			2.6		2.4				
9/26/2019	4.9	1.1							
10/8/2019						9.7	28.1	28.3	
10/9/2019									47.9
3/17/2020						14.8	31.9	24.3	54.8
3/18/2020									
3/19/2020									
3/24/2020	5.3	1	2.7	6	2.6				
3/25/2020									





# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	96.8				
9/13/2016					
9/14/2016		23.5			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		23.7			
11/14/2016					
11/15/2016					
11/16/2016	107				
11/28/2016					
12/15/2016		23.1			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		23.3			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	104				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		25.1			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		30.7			
5/1/2017					
5/2/2017					
5/8/2017	103				
5/9/2017					
5/26/2017		26.2			
6/27/2017					
6/28/2017		26.1			
6/29/2017					

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	83.7				
7/17/2017					
10/3/2017		26.7			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	69		2.74		
10/12/2017				2.9	
10/16/2017					
11/20/2017			1.81	10.4	
1/10/2018				10.2	
1/11/2018			1.54		
2/19/2018				<25	
2/20/2018			1.71		
4/2/2018					
4/3/2018			1.4	6.3	
4/4/2018	51.9				
6/5/2018					
6/6/2018					
6/7/2018		25			
6/8/2018					
6/11/2018					
6/28/2018			1.4	6.7	
8/6/2018					
8/7/2018			1.2	6.3	
9/19/2018	51.9				
9/24/2018			1.1	5.7	
9/25/2018					
9/26/2018					
10/1/2018		25			
10/2/2018					
2/25/2019					
3/26/2019				5.6	
3/27/2019	54.2		1.5		
3/28/2019					
3/29/2019		23.5 (J)			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		26.4			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	64.2		2.4	4.9	
3/17/2020	70.4				
3/18/2020					
3/19/2020		27.4			
3/24/2020				4.8	
3/25/2020			2.7		

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	105				
8/27/2020					52.3
8/28/2020	102				
9/22/2020					53.5
9/23/2020	104	26.3			
9/24/2020			3.7	4.4	
9/25/2020					
10/7/2020	105				53.8
11/12/2020	110				53.6
3/1/2021					50.6
3/2/2021	110				
3/3/2021		25.6			
3/4/2021			8.2	4.6	
8/19/2021					
8/20/2021					47.9
8/26/2021			14.1		
8/27/2021	108	22.6			
9/1/2021					
9/3/2021				5.6	
2/8/2022			15.2	6	
2/9/2022	109	23.4			42.2
2/10/2022					
2/11/2022					
8/30/2022		25.4			
8/31/2022	110		16.3	6.2	41.8
2/7/2023		25.6	16.1		
2/8/2023				5.9	
2/9/2023					
2/10/2023	105				36.7
8/15/2023	111	23.2	17.2	5.3	34.6
8/16/2023					

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/1/2016	1.3	1.6	1.3						
6/2/2016				4.3	7.2	1.4	3.7	4.1	1.9
6/6/2016									
6/7/2016									
7/25/2016		1.4	1.3						1.7
7/26/2016	1.2			4.4	6.6	1.6	3.6	4	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	1.1	1.3							
9/14/2016			1.3	3.8	6.6		3.4		
9/15/2016						1.5		4.2	
9/16/2016									
9/19/2016									1.6
11/1/2016	1.3		1.4			1.7			1.8
11/2/2016					7.6		4.5	4.9	
11/3/2016									
11/4/2016		1.6		4.8					
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017								4.1	
1/11/2017	1.1		1.1			1.2			
1/12/2017				3.8	6.8				
1/13/2017							4.2		
1/16/2017		1.4							1.7
2/21/2017									1.7
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			1.1						
3/2/2017	1	1.3				1.2			
3/3/2017									
3/6/2017							3.6		
3/7/2017				4.5	6.8				
3/8/2017								4.2	
4/26/2017			1.1			1.2		4.1	1.7
4/27/2017	1	1.3							
4/28/2017									
5/1/2017					7.2		4.3		
5/2/2017				4.6					
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	1.1	1.4		4.3	7				
6/28/2017			1.2			1.3			
6/29/2017							4.2		

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/30/2017								3.7	1.8
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	1.1	1.7		4.2	6.5				
10/4/2017			1.2			1.5			1.8
10/5/2017							4.7	3.8	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018	1.1								
6/6/2018		1.4			4.7				
6/7/2018				4.5		1.2	4.4		
6/8/2018			1.2					3.4	
6/11/2018									2
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				5.1	4.8		4.8		
10/1/2018	1.1	1.4	1.2			1.5		3.8	
10/2/2018									1.8
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	1.4	1.5							
3/29/2019								4.2	
4/1/2019			1.1			1.2			1.7
4/2/2019									
4/3/2019				4.2	4		4.3		
6/12/2019									
9/24/2019	1.1	1.3		4.5	3.7				
9/25/2019			1.1			1.1	4.5	4.8	1.6
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		1.4						5.2	
3/19/2020	1.1		1.1			1.2			1.8
3/24/2020				4.3	3.5				
3/25/2020							3.9		

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				4.2	3.6		4.5		
9/23/2020	0.99 (J)	1.2	1			1.1			
9/24/2020									1.5
9/25/2020								5.3	
10/7/2020									
11/12/2020									
3/1/2021									1.6
3/2/2021				4.3	3.2			4.9	
3/3/2021	0.96 (J)	1.2	0.99 (J)			1.1	4.1		
3/4/2021									
8/19/2021	1.1	1.3				1.1		5	1.6
8/20/2021									
8/26/2021				4.3	3.4		4.4		
8/27/2021			1.1						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1	1.3	1.1			1.1			
2/10/2022				4.4	3.2			4.7	
2/11/2022							4.1		2.1
8/30/2022	1.3			4.4	3.5				
8/31/2022		1.5	1.3			1.3	4.4	4.6	1.8
2/7/2023	1.3	1.5			3.3				
2/8/2023			1.1			1.2		4.9	1.6
2/9/2023				5			4.5		
2/10/2023									
8/15/2023	1.1	1.4		4.1	3.1	1.1	4.4	4.1	
8/16/2023			1.1						1.5

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	GWA-2 (bg)	YGWC-45
6/1/2016									
6/2/2016									
6/6/2016	6.8	6.4							
6/7/2016			4.5	2.8	1.9				
7/25/2016									
7/26/2016									
7/27/2016	6.7	6.2	4.5		1.9				
7/28/2016				2.6					
8/30/2016						5.2			
8/31/2016							13	4	5.8
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		6.1	4.5						
9/19/2016	7			2.4	1.9				
11/1/2016									
11/2/2016					2.6				
11/3/2016	7.5	7.4	5.4	2.9					
11/4/2016									
11/14/2016						6.4			5.8
11/15/2016							14		
11/16/2016									
11/28/2016								4.2	
12/15/2016									
1/10/2017									
1/11/2017	6.5	6.1	4.7						
1/12/2017									
1/13/2017				2.5	2.3				
1/16/2017									
2/21/2017									
2/22/2017								3.7	
2/24/2017						5.5			
2/27/2017									5
2/28/2017							12		
3/1/2017	6.9	6							
3/2/2017			4.8						
3/3/2017									
3/6/2017				2.1	1.9				
3/7/2017									
3/8/2017									
4/26/2017	7	6.5		2.1	2				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			4.6						
5/8/2017						5.8	13	4.2	
5/9/2017									4.6
5/26/2017									
6/27/2017									
6/28/2017	7	6.4							
6/29/2017			4.5	2.8	2.6				







# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	37				
9/13/2016					
9/14/2016		1.1			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		1.4			
11/14/2016					
11/15/2016					
11/16/2016	37				
11/28/2016					
12/15/2016		2.9			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		0.98			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	33				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		1.1			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		0.91			
5/1/2017					
5/2/2017					
5/8/2017	33				
5/9/2017					
5/26/2017		0.93			
6/27/2017					
6/28/2017		1			
6/29/2017					

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	32				
7/17/2017					
10/3/2017		1.2			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	29		2.4		
10/12/2017				3.8	
10/16/2017					
11/20/2017			1.8	4.4	
1/10/2018				4.6	
1/11/2018			1.6		
2/19/2018				4.6	
2/20/2018			2		
4/2/2018					
4/3/2018			3.3	5.9	
4/4/2018	26.6				
6/5/2018					
6/6/2018					
6/7/2018		1			
6/8/2018					
6/11/2018					
6/28/2018			2.1	5	
8/6/2018					
8/7/2018			1.2	4.3	
9/19/2018	26.5				
9/24/2018			1.3	4.9	
9/25/2018					
9/26/2018					
10/1/2018		1.1			
10/2/2018					
2/25/2019					
3/26/2019				4.4	
3/27/2019	20.9		1.4		
3/28/2019					
3/29/2019		1.2			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		0.95 (J)			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	25		2.1	5.1	
3/17/2020	24.8				
3/18/2020					
3/19/2020		0.97 (J)			
3/24/2020				4.7	
3/25/2020			1.9		

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	25.8				
8/27/2020					3.9
8/28/2020	25.9				
9/22/2020					4.1
9/23/2020	28.1	0.88 (J)			
9/24/2020			2.7	5	
9/25/2020					
10/7/2020	28.2				4
11/12/2020	26.7				3.8
3/1/2021					3.7
3/2/2021	27.4				
3/3/2021		0.86 (J)			
3/4/2021			4.9	4.9	
8/19/2021					
8/20/2021					3.1
8/26/2021			7.2		
8/27/2021	29.3	0.99 (J)			
9/1/2021					
9/3/2021				5.5	
2/8/2022			7.4	6.2	
2/9/2022	28.2	1 (J)			3.2
2/10/2022					
2/11/2022					
8/30/2022		1.2			
8/31/2022	29.9		6.7	6.3	3.4
2/7/2023		1.1	5.6		
2/8/2023				6.9	
2/9/2023					
2/10/2023	33.5				3.3
8/15/2023	32.2	0.93 (J)	4.5	5.6	3
8/16/2023					

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/1/2016	0.12 (J)	<0.1	0.15 (J)						
6/2/2016				<0.1	0.11 (J)	0.62	<0.1	<0.1	<0.1
6/6/2016									
6/7/2016									
7/25/2016		0.06 (J)	0.14 (J)						0.06 (J)
7/26/2016	0.08 (J)			<0.1	0.05 (J)	0.49	<0.1	0.02 (J)	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	0.11 (J)	<0.1							
9/14/2016			0.18 (J)	<0.1	0.04 (J)		<0.1		
9/15/2016						0.54		<0.1	
9/16/2016									
9/19/2016									<0.1
11/1/2016	<0.1		<0.1			0.68			<0.1
11/2/2016					<0.1		<0.1	<0.1	
11/3/2016									
11/4/2016		<0.1		<0.1					
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017								<0.1	
1/11/2017	0.05 (J)		0.09 (J)			0.49			
1/12/2017				<0.1	0.04 (J)				
1/13/2017							<0.1		
1/16/2017		<0.1							<0.1
2/21/2017									<0.1
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			<0.1						
3/2/2017	<0.1	<0.1				0.48			
3/3/2017									
3/6/2017							<0.1		
3/7/2017				<0.1	<0.1				
3/8/2017								<0.1	
4/26/2017			0.08 (J)			0.48		<0.1	<0.1
4/27/2017	0.04 (J)	0.01 (J)							
4/28/2017									
5/1/2017					<0.1		<0.1		
5/2/2017				<0.1					
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	<0.1	<0.1		<0.1	<0.1				
6/28/2017			0.12 (J)			0.47			
6/29/2017							<0.1		

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/30/2017								<0.1	<0.1
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	<0.1	<0.1		<0.1	<0.1				
10/4/2017			<0.1			<0.1			<0.1
10/5/2017							<0.1	<0.1	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018		<0.1						<0.1	<0.1
3/28/2018			<0.1			0.56			
3/29/2018	<0.1			<0.1	<0.1		<0.1		
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018	0.055 (J)								
6/6/2018		<0.1			0.15 (J)				
6/7/2018				<0.1		0.48	<0.1		
6/8/2018			0.2 (J)					<0.1	
6/11/2018									<0.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				<0.1	<0.1		<0.1		
10/1/2018	<0.1	<0.1	<0.1			0.44		<0.1	
10/2/2018									<0.1
2/25/2019									
2/26/2019								<0.1	<0.1
2/27/2019	0.052 (J)	<0.1	0.13 (J)			0.53			
3/4/2019				<0.1	0.19 (J)		<0.1		
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019	0.036 (J)	<0.1							
3/29/2019								<0.1	
4/1/2019			0.1 (J)			0.45			<0.1
4/2/2019									
4/3/2019				<0.1	0.047 (J)		<0.1		
6/12/2019									
8/19/2019									
8/20/2019									

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
8/21/2019									
9/24/2019	0.063 (J)	<0.1		<0.1	0.05 (J)				
9/25/2019			0.1 (J)			0.46	<0.1	<0.1	<0.1
9/26/2019									
10/8/2019									
10/9/2019									
2/10/2020	0.061 (J)	<0.1							
2/11/2020			0.094 (J)						
2/12/2020				<0.1	<0.1	0.4	<0.1	<0.1	<0.1
3/17/2020									
3/18/2020		<0.1						<0.1	
3/19/2020	0.064 (J)		0.11 (J)			0.51			<0.1
3/24/2020				<0.1	<0.1				
3/25/2020							<0.1		
7/6/2020									
8/26/2020									
8/27/2020									
8/28/2020									
9/22/2020				<0.1	0.056 (J)		<0.1		
9/23/2020	0.058 (J)	<0.1	0.098 (J)			0.47			
9/24/2020									<0.1
9/25/2020								<0.1	
10/7/2020									
11/12/2020									
2/8/2021				<0.1	0.055 (J)				
2/9/2021							<0.1		
2/10/2021			<0.1			0.43		<0.1	
2/11/2021									<0.1
2/12/2021	0.068 (J)	<0.1							
3/1/2021									<0.1
3/2/2021				<0.1	<0.1			<0.1	
3/3/2021	0.078 (J)	<0.1	0.1			0.44	<0.1		
3/4/2021									
8/19/2021	0.074 (J)	<0.1				0.47		<0.1	<0.1
8/20/2021									
8/26/2021				<0.1	0.061 (J)		<0.1		
8/27/2021			0.12						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	0.057 (J)	<0.1	0.097 (J)			0.43			
2/10/2022				<0.1	0.055 (J)			<0.1	
2/11/2022							<0.1		<0.1
8/30/2022	0.093 (J)			<0.1	0.085 (J)				
8/31/2022		0.065 (J)	0.13			0.42	0.061 (J)	0.053 (J)	0.06 (J)
2/7/2023	0.093 (J)	0.071 (J)			0.082 (J)				
2/8/2023			0.16			0.56		0.059 (J)	0.064 (J)
2/9/2023				<0.1			0.067 (J)		
2/10/2023									
8/15/2023	0.057 (J)	<0.1		<0.1	<0.1	0.42	<0.1	<0.1	
8/16/2023			0.11						<0.1



# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1				
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1		<0.1				
7/28/2016				0.02 (J)					
8/30/2016						0.09 (J)			
8/31/2016							0.14 (J)	<0.1	0.11 (J)
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		<0.1	<0.1						
9/19/2016	<0.1			0.02 (J)	<0.1				
11/1/2016									
11/2/2016					<0.1				
11/3/2016	<0.1	<0.1	<0.1	<0.1					
11/4/2016									
11/14/2016						0.18 (J)			0.71
11/15/2016								0.12 (J)	
11/16/2016									
11/28/2016							0.12 (J)		
12/15/2016									
1/10/2017									
1/11/2017	<0.1	<0.1	<0.1						
1/12/2017									
1/13/2017				<0.1	<0.1				
1/16/2017									
2/21/2017									
2/22/2017							0.09 (J)		
2/24/2017						0.05 (J)			
2/27/2017									0.22 (J)
2/28/2017								0.07 (J)	
3/1/2017	<0.1	<0.1							
3/2/2017			<0.1						
3/3/2017									
3/6/2017				<0.1	<0.1				
3/7/2017									
3/8/2017									
4/26/2017	<0.1	<0.1		0.04 (J)	<0.1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			<0.1						
5/8/2017						0.03 (J)	0.05 (J)	0.04 (J)	
5/9/2017									0.2 (J)
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1	<0.1	<0.1				

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
6/30/2017									
7/11/2017						0.07 (J)			
7/13/2017								<0.1	0.11 (J)
7/17/2017							0.14 (J)		
10/3/2017				<0.1					
10/4/2017		<0.1	<0.1		<0.1				
10/5/2017	<0.1								
10/10/2017						<0.1		<0.1	0.39
10/11/2017									
10/12/2017									
10/16/2017							0.12 (J)		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018							0.17		
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1	<0.1						
3/29/2018				<0.1	<0.1				
4/2/2018						<0.1			
4/3/2018									<0.1
4/4/2018								<0.1	
6/5/2018				0.13 (J)					
6/6/2018					<0.1				
6/7/2018	<0.1								
6/8/2018									
6/11/2018		<0.1	<0.1						
6/28/2018									
8/6/2018							0.087 (J)		
8/7/2018									
9/19/2018						<0.1		<0.1	<0.1
9/24/2018									
9/25/2018	<0.1	<0.1	<0.1	0 (J)	<0.1				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019							0.14 (J)		
2/26/2019									
2/27/2019									
3/4/2019									
3/5/2019		<0.1	<0.1	0.32	<0.1				
3/6/2019	<0.1								
3/26/2019									
3/27/2019						0.081 (J)		<0.1	0.18 (J)
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			<0.1	0.12 (J)					
4/3/2019	<0.1	<0.1			<0.1				
6/12/2019							0.12 (J)		
8/19/2019							<0.1		
8/20/2019						<0.1		<0.1	<0.1

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-44	YGWC-45
8/21/2019									
9/24/2019				0.15 (J)					
9/25/2019			<0.1		<0.1				
9/26/2019	<0.1	<0.1							
10/8/2019						0.034 (J)	0.052 (J)	<0.1	
10/9/2019									<0.1
2/10/2020									
2/11/2020	<0.1	<0.1	<0.1						
2/12/2020				0.1 (J)	<0.1				
3/17/2020						<0.1	0.053 (J)	<0.1	0.076 (J)
3/18/2020									
3/19/2020									
3/24/2020	<0.1	<0.1	<0.1	0.081 (J)	<0.1				
3/25/2020									
7/6/2020									
8/26/2020							0.068 (J)		
8/27/2020						<0.1		<0.1	
8/28/2020									0.07 (J)
9/22/2020						<0.1	0.058 (J)	<0.1	
9/23/2020	<0.1	<0.1	<0.1						0.082 (J)
9/24/2020				0.079 (J)	<0.1				
9/25/2020									
10/7/2020									
11/12/2020									
2/8/2021									
2/9/2021	<0.1	<0.1		0.092 (J)	<0.1				
2/10/2021									
2/11/2021									
2/12/2021									
3/1/2021						<0.1		<0.1	0.073 (J)
3/2/2021							0.073 (J)		
3/3/2021	<0.1	<0.1	<0.1		<0.1				
3/4/2021				0.091 (J)					
8/19/2021						<0.1		<0.1	0.075 (J)
8/20/2021							0.06 (J)		
8/26/2021		<0.1							
8/27/2021	<0.1		<0.1		<0.1				
9/1/2021				0.11					
9/3/2021									
2/8/2022						<0.1	0.064 (J)		
2/9/2022	<0.1	<0.1	<0.1	0.1	<0.1			<0.1	0.063 (J)
2/10/2022									
2/11/2022									
8/30/2022	<0.1	<0.1	<0.1	0.1			0.086 (J)		
8/31/2022					<0.1	0.065 (J)		0.055 (J)	0.1
2/7/2023	<0.1	<0.1	<0.1	0.1	<0.1		0.095 (J)		
2/8/2023						0.077 (J)		0.062 (J)	
2/9/2023									0.11
2/10/2023									
8/15/2023	<0.1	<0.1	<0.1	0.061 (J)	<0.1	<0.1	0.065 (J)	<0.1	0.07 (J)
8/16/2023									

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	0.08 (J)				
9/13/2016					
9/14/2016		0.08 (J)			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		<0.1			
11/14/2016					
11/15/2016					
11/16/2016	0.04 (J)				
11/28/2016					
12/15/2016		0.06 (J)			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		0.1 (J)			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	0.05 (J)				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		<0.1			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		0.06 (J)			
5/1/2017					
5/2/2017					
5/8/2017	0.004 (J)				
5/9/2017					
5/26/2017		0.09 (J)			
6/27/2017					
6/28/2017		0.11 (J)			
6/29/2017					

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	0.35				
7/17/2017					
10/3/2017		<0.1			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	<0.1		<0.1		
10/12/2017				<0.1	
10/16/2017					
11/20/2017			<0.1	<0.1	
1/10/2018				<0.1	
1/11/2018			<0.1		
2/19/2018				<0.1	
2/20/2018			0.23		
3/27/2018					
3/28/2018		0.31			
3/29/2018					
4/2/2018					
4/3/2018			<0.1	<0.1	
4/4/2018	<0.1				
6/5/2018					
6/6/2018					
6/7/2018		0.11 (J)			
6/8/2018					
6/11/2018					
6/28/2018			<0.1	<0.1	
8/6/2018					
8/7/2018			0.048 (J)	<0.1	
9/19/2018	<0.1				
9/24/2018			<0.1	<0.1	
9/25/2018					
9/26/2018					
10/1/2018		<0.1			
10/2/2018					
2/25/2019					
2/26/2019					
2/27/2019		0.12 (J)			
3/4/2019					
3/5/2019					
3/6/2019					
3/26/2019				<0.1	
3/27/2019	0.12 (J)		<0.1		
3/28/2019					
3/29/2019		0.13 (J)			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
8/19/2019					
8/20/2019					

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
8/21/2019	<0.1		<0.1	<0.1	
9/24/2019		0.081 (J)			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	0.12 (J)		<0.1	<0.1	
2/10/2020					
2/11/2020		0.075 (J)			
2/12/2020			<0.1	<0.1	
3/17/2020	<0.1				
3/18/2020					
3/19/2020		0.093 (J)			
3/24/2020				<0.1	
3/25/2020			<0.1		
7/6/2020	0.12				
8/26/2020					
8/27/2020					<0.1
8/28/2020	0.12				
9/22/2020					<0.1
9/23/2020	0.12	0.08 (J)			
9/24/2020			<0.1	<0.1	
9/25/2020					
10/7/2020	0.13				<0.1
11/12/2020	0.084 (J)				<0.1
2/8/2021					
2/9/2021					
2/10/2021		0.094 (J)	<0.1	<0.1	
2/11/2021					
2/12/2021					
3/1/2021					<0.1
3/2/2021	0.12				
3/3/2021		0.085 (J)			
3/4/2021			<0.1	<0.1	
8/19/2021					
8/20/2021					<0.1
8/26/2021			0.063 (J)		
8/27/2021	0.13	0.12			
9/1/2021					
9/3/2021				<0.1	
2/8/2022			0.052 (J)	<0.1	
2/9/2022	0.12	0.094 (J)			<0.1
2/10/2022					
2/11/2022					
8/30/2022		0.12			
8/31/2022	0.12		0.065 (J)	0.05 (J)	0.059 (J)
2/7/2023		0.12	0.076 (J)		
2/8/2023				<0.1	
2/9/2023					
2/10/2023	0.17				0.063 (J)
8/15/2023	0.12	0.081 (J)	<0.1	<0.1	<0.1
8/16/2023					

# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
8/27/2008	6.53								
3/3/2009	6.35								
11/18/2009	6.47								
3/3/2010	6.53								
3/10/2011	5.83								
9/8/2011	5.69								
3/5/2012	6.27								
9/10/2012	6.23								
2/6/2013	7.56								
8/12/2013	6.68								
2/5/2014	6.32								
8/3/2015	6.13 (D)								
2/16/2016	5.64								
6/1/2016		7.72	7.46	6.33					
6/2/2016					6.36	5.75	5.46	7.84	7.67
6/6/2016									
6/7/2016									
7/25/2016		7.74		6.21		5.82			
7/26/2016			7.43		6.22		5.45	7.88	7.66
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016			7.44	6.16					
9/14/2016		7.65			6.23				7.6
9/15/2016							5.45	7.74	
9/16/2016									
9/19/2016						5.78 (D)			
11/1/2016		7.7	7.24			5.62		7.75	
11/2/2016					6.08		5.41		7.35
11/3/2016									
11/4/2016				6.29					
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016	6.23								
12/15/2016									
1/10/2017							5.37		
1/11/2017		7.53	7.3					7.66	
1/12/2017									7.49
1/13/2017					6.19				
1/16/2017				6.29		5.72			
2/21/2017						5.67			
2/22/2017	6.21								
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		7.42							
3/2/2017			7.23	6.28				7.68	
3/3/2017									
3/6/2017					6.2				

# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
3/7/2017									7.43
3/8/2017							5.41		
4/26/2017		7.4				5.56	5.02	7.45	
4/27/2017			6.99	6.09					
4/28/2017									
5/1/2017					6.21				7.22
5/2/2017									
5/8/2017	6.12								
5/9/2017									
5/26/2017									
6/27/2017			6.87	6.21					7.32
6/28/2017		7.5						7.65	
6/29/2017					6.21				
6/30/2017						5.72	5.39		
7/11/2017									
7/13/2017									
7/17/2017	6.03								
10/3/2017			6.81	5.98					7.48
10/4/2017		7.45				5.87		7.49	
10/5/2017					6.16		5.49		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018				6.25		5.83	5.47		
3/28/2018		7.74						7.91	
3/29/2018			7.38		6.09				7.02
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			7.16						
6/6/2018				6.17					7.43
6/7/2018					6.12			7.69	
6/8/2018		7.64					5.45		
6/11/2018						5.69			
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					5.84				7.13
10/1/2018		7.47	6.8	5.9			5.39	7.39	
10/2/2018						5.39			
2/25/2019	6.51					5.77	5.46		
2/26/2019									
2/27/2019		7.54	6.84	5.8				7.55	





# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
2/8/2022	5.83								
2/9/2022		7.66	7.12	6.24				7.97	
2/10/2022							4.5		6.99
2/11/2022					5.95	5.59			
8/30/2022	5.39		7.2						7.4
8/31/2022		7.49		5.64	5.5	5.87	5.15	7.65	
2/7/2023	5.94		7.86	6.53					6.64
2/8/2023		7.73				6.43	5.39	7.88	
2/9/2023					6.23				
2/10/2023									
8/15/2023	5.3		6.98	5.88	5.99		5.03	7.69	7.34
8/16/2023		7.39				5.55			

# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	YGWC-44	YGWC-45
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016	5.75								
6/6/2016		5.71	6.17						
6/7/2016				6.1	5.77	5.62			
7/25/2016									
7/26/2016	5.72								
7/27/2016		5.46	6.14		5.79	5.59			
7/28/2016				6.12					
8/30/2016							5.75		
8/31/2016								6.01	7.15
9/1/2016									
9/13/2016									
9/14/2016	5.74								
9/15/2016									
9/16/2016						5.58			
9/19/2016		5.59	6.04	6.12	5.73				
11/1/2016									
11/2/2016					5.67				
11/3/2016		5.39	5.97	6.07		5.59			
11/4/2016	5.61								
11/14/2016							5.59		6.96
11/15/2016								5.91	
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		5.48	6.05			5.59			
1/12/2017	5.71								
1/13/2017				6.41	5.79				
1/16/2017									
2/21/2017									
2/22/2017									
2/24/2017							5.49		
2/27/2017									6.79
2/28/2017								5.85	
3/1/2017		5.41	5.94						
3/2/2017						5.54			
3/3/2017									
3/6/2017				6.34	5.63				







# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
8/27/2008					
3/3/2009					
11/18/2009					
3/3/2010					
3/10/2011					
9/8/2011					
3/5/2012					
9/10/2012					
2/6/2013					
8/12/2013					
2/5/2014					
8/3/2015					
2/16/2016					
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	6.19				
9/13/2016		7.41			
9/14/2016					
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		7.12			
11/14/2016					
11/15/2016					
11/16/2016	6.05				
11/28/2016					
12/15/2016		7.24			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		7.24			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	6.01				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		7.22			
3/6/2017					

# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		7.21			
5/1/2017					
5/2/2017					
5/8/2017	6.1				
5/9/2017					
5/26/2017		7.13			
6/27/2017					
6/28/2017		7.06			
6/29/2017					
6/30/2017					
7/11/2017					
7/13/2017	6.07				
7/17/2017					
10/3/2017		6.99			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	5.93		6.4		
10/12/2017				5.43	
10/16/2017					
11/20/2017			6.33	5.1	
1/10/2018				4.97	
1/11/2018			6.29		
2/19/2018				5.6	
2/20/2018			7.22		
3/27/2018					
3/28/2018		7.3			
3/29/2018					
4/2/2018					
4/3/2018			6.87	5.84	
4/4/2018	6.01				
6/5/2018					
6/6/2018					
6/7/2018		7.29			
6/8/2018					
6/11/2018					
6/28/2018			6.18	5.24	
8/6/2018					
8/7/2018			6.08	5.18	
9/19/2018	6.09				
9/24/2018			5.81	5.14	
9/25/2018					
9/26/2018					
10/1/2018		7.07			
10/2/2018					
2/25/2019					
2/26/2019					
2/27/2019		7.27			



# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
3/4/2019					
3/5/2019					
3/6/2019					
3/26/2019				5.3	
3/27/2019	6.2		5.84		
3/28/2019					
3/29/2019		7.06			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
8/19/2019					
8/20/2019					
8/21/2019	5.82		5.96	5.26	
9/24/2019		7.01			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	5.96		5.81	5.22	
2/10/2020					
2/11/2020		7.38			
2/12/2020			5.97	5.3	
3/17/2020	5.99				
3/18/2020					
3/19/2020		7.22			
3/24/2020				5.29	
3/25/2020			5.78		
5/6/2020					
7/6/2020	6.89				
8/26/2020					
8/27/2020					5.8
8/28/2020	7.05				
9/22/2020					5.91
9/23/2020	6.81	7.22			
9/24/2020			5.7	5.43	
9/25/2020					
10/7/2020	7.06				5.87
2/8/2021					
2/9/2021					
2/10/2021		7.29	5.8	5.19	
2/11/2021					
2/12/2021					
3/1/2021					5.84
3/2/2021	6.72				
3/3/2021		7.92			
3/4/2021			5.54	5.23	
8/19/2021					
8/20/2021					6.71
8/26/2021			6.91		
8/27/2021	6.83	7.14			
9/1/2021					
9/3/2021				4.75	

# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
2/8/2022			5.78	5.26	
2/9/2022	6.98	5.89			5.99
2/10/2022					
2/11/2022					
8/30/2022		7.04			
8/31/2022	6.87		5.3	4.53	5.58
2/7/2023		6.94	5.49		
2/8/2023				5.71	
2/9/2023					
2/10/2023	7.32				6
8/15/2023	7.51	6.96	5.78	5	6.05
8/16/2023					

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/1/2016	5	4.2	12						
6/2/2016				1.9	20	5.8	8	6.6	1.3
6/6/2016									
6/7/2016									
7/25/2016		3.7	8.4						1.2
7/26/2016	5.4			1.8	20	6.7	7.7	6.1	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	2.9	5.2							
9/14/2016			8.6	1.8	19		7.5		
9/15/2016						6		6.1	
9/16/2016									
9/19/2016									1.2
11/1/2016	3.9		8.9			4.9			1.3
11/2/2016					20		8.2	6.3	
11/3/2016									
11/4/2016		5		2					
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017								5.9	
1/11/2017	3.7		8.6			4.5			
1/12/2017				1.9	19				
1/13/2017							8.1		
1/16/2017		7.9							<1
2/21/2017									1.4
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			9.3						
3/2/2017	4.6	7.4				4.4			
3/3/2017									
3/6/2017							8		
3/7/2017				2.1	20				
3/8/2017								7	
4/26/2017			11			5.1		7	1.4
4/27/2017	5.2	7.4							
4/28/2017									
5/1/2017					20		8.4		
5/2/2017				2					
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	5.9	6.4		2.1	18				
6/28/2017			12			5.4			
6/29/2017							9.2		

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/30/2017								6.5	<1
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	6.6	5.9		2.3	16				
10/4/2017			12			6.2			1.4
10/5/2017							9.6	7.9	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018	6.4								
6/6/2018		4.4			8.3				
6/7/2018				2		6.7	8.5		
6/8/2018			9.6					6.4	
6/11/2018									1.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				2.3	7.9		10.2		
10/1/2018	5.6	4	9.1			7.1		6.8	
10/2/2018									1
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	8	4.3							
3/29/2019								7.3	
4/1/2019			8.5			7.2			0.96 (J)
4/2/2019									
4/3/2019				2.1	7		8.5		
6/12/2019									
9/24/2019	5.3	4.3		2.4	5.5				
9/25/2019			13.8			7	8.5	6.6	0.81 (J)
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		5.3						8.1	
3/19/2020	10		12.9			9			1.6
3/24/2020				2.1	5.9				
3/25/2020							8.8		

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				2.1	5.5		8.2		
9/23/2020	8.1	3.4	16.8			6.9			
9/24/2020									0.69 (J)
9/25/2020								6.1	
10/7/2020									
11/12/2020									
3/1/2021									0.88 (J)
3/2/2021				2.3	2.6			6	
3/3/2021	9	4.4	9.6			7	7.8		
3/4/2021									
8/19/2021	8.9	4.9				7.5		6.7	1
8/20/2021									
8/26/2021				2.4	6		8.5		
8/27/2021			18.2						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	9.3	5.1	16			7.2			
2/10/2022				2.4	4.9			6.2	
2/11/2022							7.7		2.8
8/30/2022	10.2			2.4	5.7				
8/31/2022		4.8	13.9			6.9	8	5.8	1.1
2/7/2023	10.6	6.6			5.2				
2/8/2023			14.7			7.5		6.1	0.96 (J)
2/9/2023				2.9			8.9		
2/10/2023									
8/15/2023	9.6	4.6		2.2	4.8	6.8	7.5	6	
8/16/2023			20.3						0.9 (J)

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	GWA-2 (bg)	YGWC-45
6/1/2016									
6/2/2016									
6/6/2016	1.2	1.8							
6/7/2016			4.4	5.2	<1				
7/25/2016									
7/26/2016									
7/27/2016	1.7	1.9	4.7		0.08 (J)				
7/28/2016				5.1					
8/30/2016						160			
8/31/2016							150	29	190
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.7	4.8						
9/19/2016	1.8			4.8	0.08 (J)				
11/1/2016									
11/2/2016					0.1 (J)				
11/3/2016	0.69 (J)	1.9	5.3	5					
11/4/2016									
11/14/2016						150			200
11/15/2016							150		
11/16/2016									
11/28/2016								36	
12/15/2016									
1/10/2017									
1/11/2017	<1	1.7	5.2						
1/12/2017									
1/13/2017				4.3	<1				
1/16/2017									
2/21/2017									
2/22/2017								43	
2/24/2017						120			
2/27/2017									190
2/28/2017							130		
3/1/2017	1.8	<1							
3/2/2017			5						
3/3/2017									
3/6/2017				4.5	<1				
3/7/2017									
3/8/2017									
4/26/2017	1.6	1.9		4.9	<1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			5						
5/8/2017						120	150	60	
5/9/2017									190
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.2	5.5	<1				

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	GWA-2 (bg)	YGWC-45
6/30/2017									
7/11/2017						110			
7/13/2017							150		180
7/17/2017								63	
10/3/2017				5.8					
10/4/2017		1.7	5.3		<1				
10/5/2017	1.6								
10/10/2017						93	140		180
10/11/2017									
10/12/2017									
10/16/2017								62	
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								64.6	
2/20/2018									
4/2/2018						88.8			
4/3/2018									183
4/4/2018							137		
6/5/2018				6.1					
6/6/2018					0.049 (J)				
6/7/2018	0.68 (J)								
6/8/2018									
6/11/2018		0.95 (J)	5.2						
6/28/2018									
8/6/2018								42.1	
8/7/2018									
9/19/2018						75	137		192
9/24/2018									
9/25/2018	1	1.5	6.1	7	0.13 (J)				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								42.1	
3/26/2019									
3/27/2019						65.9	146		188
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			5.1	3.8					
4/3/2019	0.82 (J)	1.3			0.12 (J)				
6/12/2019								83.4	
9/24/2019				1					
9/25/2019			5.5		<1				
9/26/2019	0.64 (J)	1							
10/8/2019						52.3	142	128	
10/9/2019									183
3/17/2020						71.6	121	98.6	161
3/18/2020									
3/19/2020									
3/24/2020	<1	0.99 (J)	5.4	3	<1				
3/25/2020									

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	GWA-2 (bg)	YGWC-45
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						51.5	130	145	
9/23/2020	0.53 (J)	1.1	5.1						170
9/24/2020				3.6	<1				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						51.6	119		159
3/2/2021								156	
3/3/2021	<1	1	5.2		<1				
3/4/2021				4.5					
8/19/2021						52.6	115		149
8/20/2021								121	
8/26/2021		1.2							
8/27/2021	0.59 (J)		5.3		<1				
9/1/2021				5					
9/3/2021									
2/8/2022						50.9		107	
2/9/2022	0.51 (J)	1.1	4.8	3.9	<1		121		164
2/10/2022									
2/11/2022									
8/30/2022	0.78 (J)	1.3	4.7	3.2				101	
8/31/2022					<1	48	130		177
2/7/2023	0.78 (J)	1.2	4.9	3.8	<1			82.4	
2/8/2023						50.5	130		
2/9/2023									193
2/10/2023									
8/15/2023	0.51 (J)	0.88 (J)	4.6	4.1	<1	47.7	113	74.2	154
8/16/2023									



# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	770				
9/13/2016					
9/14/2016		9.4			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		13			
11/14/2016					
11/15/2016					
11/16/2016	780				
11/28/2016					
12/15/2016		1.8			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		11			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	650				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		8.8			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		10			
5/1/2017					
5/2/2017					
5/8/2017	770				
5/9/2017					
5/26/2017		12			
6/27/2017					
6/28/2017		11			
6/29/2017					

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	630				
7/17/2017					
10/3/2017		7.9			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	540		20		
10/12/2017				17	
10/16/2017					
11/20/2017			24	71	
1/10/2018				66	
1/11/2018			23		
2/19/2018				57.2	
2/20/2018			20.6		
4/2/2018					
4/3/2018			24.5	49.4	
4/4/2018	430				
6/5/2018					
6/6/2018					
6/7/2018		8.8			
6/8/2018					
6/11/2018					
6/28/2018			22	43.8	
8/6/2018					
8/7/2018			20.7	40.5	
9/19/2018	395				
9/24/2018			21.2	39.7	
9/25/2018					
9/26/2018					
10/1/2018		9.1			
10/2/2018					
2/25/2019					
3/26/2019				34.3	
3/27/2019	437		17.7		
3/28/2019					
3/29/2019		9			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		9.1			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	<1		15	27.9	
3/17/2020	439				
3/18/2020					
3/19/2020		12.4			
3/24/2020				25.2	
3/25/2020			14.3		

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	385				
8/27/2020					144
8/28/2020	394				
9/22/2020					156
9/23/2020	430	11.8			
9/24/2020			11.7	22.9	
9/25/2020					
10/7/2020	427				156
11/12/2020	385				147
3/1/2021					139
3/2/2021	387				
3/3/2021		10.6			
3/4/2021			12	21.5	
8/19/2021					
8/20/2021					122
8/26/2021			19.2		
8/27/2021	423	16.7			
9/1/2021					
9/3/2021				21.3	
2/8/2022			14.6	17.9	
2/9/2022	415	18			119
2/10/2022					
2/11/2022					
8/30/2022		20.1			
8/31/2022	459		10.9	17.9	122
2/7/2023		17.8	9.7		
2/8/2023				17.5	
2/9/2023					
2/10/2023	517				114
8/15/2023	419	17.2	7.6	16.4	96.5
8/16/2023					

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/1/2016	120	54	150						
6/2/2016				66	160	130	96	46	36
6/6/2016									
6/7/2016									
7/25/2016		48	135						50
7/26/2016	94			78	177	141	92	54	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	105	67							
9/14/2016			127	73	187		102		
9/15/2016						153		54	
9/16/2016									
9/19/2016									35
11/1/2016	44		75			92			<25
11/2/2016					181		115	71	
11/3/2016									
11/4/2016		60		75					
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017								45	
1/11/2017	107		148			159			
1/12/2017				86	202				
1/13/2017							67		
1/16/2017		65							47
2/21/2017									<25
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			182						
3/2/2017	98	61				117			
3/3/2017									
3/6/2017							159		
3/7/2017				108	257				
3/8/2017								178	
4/26/2017			92			181		52	55
4/27/2017	116	31							
4/28/2017									
5/1/2017					165		107		
5/2/2017				103					
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	89	42		73	189				
6/28/2017			126			169			
6/29/2017							79		

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/30/2017								45	42
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	119	58		89	170				
10/4/2017			147			141			31
10/5/2017							95	40	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018	127								
6/6/2018		96			151				
6/7/2018				142		95	90		
6/8/2018			158					114	
6/11/2018									59
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				86	144		116		
10/1/2018	117	60	138			165		50	
10/2/2018									57
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	87	87							
3/29/2019								63	
4/1/2019			19 (J)			149			54
4/2/2019									
4/3/2019				83	142		111		
6/12/2019									
9/24/2019	124	54		79	129				
9/25/2019			159			157	117	64	51
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		35						57	
3/19/2020	116		148			146			47
3/24/2020				68	139				
3/25/2020							146		

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				75	104		83		
9/23/2020	108	15	155			157			
9/24/2020									51
9/25/2020								54	
10/7/2020									
11/12/2020									
3/1/2021									23
3/2/2021				67	52			67	
3/3/2021	99	39	111			137	80		
3/4/2021									
8/19/2021	105	44				144		54	50
8/20/2021									
8/26/2021				86	123		93		
8/27/2021			155						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	105	57	145			154			
2/10/2022				77	127			56	
2/11/2022							102		66
8/30/2022	116			86	148				
8/31/2022		46	137			141	92	51	33
2/7/2023	131	121			180				
2/8/2023			145			144		56	43
2/9/2023				59			124		
2/10/2023									
8/15/2023	121	65		76	219	231	99	69	
8/16/2023			148						48

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-44	GWA-2 (bg)	YGWC-45
6/1/2016									
6/2/2016									
6/6/2016	120	58							
6/7/2016			28	60	38				
7/25/2016									
7/26/2016									
7/27/2016	94	35	74		74				
7/28/2016				81					
8/30/2016						319			
8/31/2016							332	209	402
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		35	67						
9/19/2016	92			68	45				
11/1/2016									
11/2/2016					53				
11/3/2016	104	48	41	61					
11/4/2016									
11/14/2016						280			445
11/15/2016							356		
11/16/2016									
11/28/2016								102	
12/15/2016									
1/10/2017									
1/11/2017	133	95	104						
1/12/2017									
1/13/2017				76	46				
1/16/2017									
2/21/2017									
2/22/2017								164	
2/24/2017						162			
2/27/2017									346
2/28/2017							483		
3/1/2017	119	79							
3/2/2017			77						
3/3/2017									
3/6/2017				167	164				
3/7/2017									
3/8/2017									
4/26/2017	162	36		50	34				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			142						
5/8/2017						194	296	145	
5/9/2017									388
5/26/2017									
6/27/2017									
6/28/2017	98	45							
6/29/2017			53	94	68				







# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	1240				
9/13/2016					
9/14/2016		152			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		148			
11/14/2016					
11/15/2016					
11/16/2016	1220				
11/28/2016					
12/15/2016		191			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		180			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	1060				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		156			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		130			
5/1/2017					
5/2/2017					
5/8/2017	1160				
5/9/2017					
5/26/2017		223			
6/27/2017					
6/28/2017		166			
6/29/2017					

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	996				
7/17/2017					
10/3/2017		153			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	835		68		
10/12/2017				74	
10/16/2017					
11/20/2017			139	179	
1/10/2018				140	
1/11/2018			153		
2/19/2018				119	
2/20/2018			87		
4/2/2018					
4/3/2018			85	106	
4/4/2018	1470				
6/5/2018					
6/6/2018					
6/7/2018		146			
6/8/2018					
6/11/2018					
6/28/2018			88	112	
8/6/2018					
8/7/2018			89	103	
9/19/2018	702				
9/24/2018			82	107	
9/25/2018					
9/26/2018					
10/1/2018		155			
10/2/2018					
2/25/2019					
3/26/2019				90	
3/27/2019	641		75		
3/28/2019					
3/29/2019		150			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		146			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	809		119	98	
3/17/2020	733				
3/18/2020					
3/19/2020		148			
3/24/2020				84	
3/25/2020			158		

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/9/2023 6:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	793				
8/27/2020					349
8/28/2020	838				
9/22/2020					296
9/23/2020	832	161			
9/24/2020			170	77	
9/25/2020					
10/7/2020	842				336
11/12/2020	760				317
3/1/2021					265
3/2/2021	782				
3/3/2021		138			
3/4/2021			168	57	
8/19/2021					
8/20/2021					289
8/26/2021			249		
8/27/2021	810	150			
9/1/2021					
9/3/2021				88	
2/8/2022			248	93	
2/9/2022	846	156			278
2/10/2022					
2/11/2022					
8/30/2022		153			
8/31/2022	948		242	92	266
2/7/2023		159	224		
2/8/2023				115	
2/9/2023					
2/10/2023	995				228
8/15/2023	945	157	225	83	267
8/16/2023					

FIGURE E.

# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/9/2023, 6:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron, total (mg/L)	YGWA-39 (bg)	0.02058	92	68	Yes	18	5.556	n/a	0.01	NP
Boron, total (mg/L)	YGWA-40 (bg)	-0.01353	-106	-68	Yes	18	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-47 (bg)	-1.099	-122	-68	Yes	18	5.556	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-17S (bg)	0.134	143	87	Yes	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-18S (bg)	-0.0757	-147	-87	Yes	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-211 (bg)	0.6806	92	87	Yes	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-39 (bg)	2.124	86	68	Yes	18	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-5D (bg)	-1.349	-113	-87	Yes	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-5I (bg)	0.06491	106	87	Yes	21	0	n/a	0.01	NP
Calcium, total (mg/L)	GWA-2 (bg)	2.437	87	74	Yes	19	5.263	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1D (bg)	0.4931	94	87	Yes	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1I (bg)	-0.08927	-112	-87	Yes	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWC-46A	2.352	105	92	Yes	22	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-47 (bg)	-0.3827	-108	-68	Yes	18	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-17S (bg)	0.6794	162	87	Yes	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-18I (bg)	0.08671	96	87	Yes	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-20S (bg)	0.1049	130	87	Yes	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-40 (bg)	0.3111	91	68	Yes	18	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-5D (bg)	-0.6409	-159	-87	Yes	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-2 (bg)	0.2897	101	74	Yes	19	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-3D (bg)	-0.03797	-98	-87	Yes	21	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-47 (bg)	-13.93	-138	-68	Yes	18	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-18I (bg)	-0.1191	-112	-87	Yes	21	19.05	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-39 (bg)	-2.62	-107	-68	Yes	18	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-40 (bg)	-7.156	-120	-68	Yes	18	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5D (bg)	-2.402	-162	-87	Yes	21	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5I (bg)	0.08787	138	87	Yes	21	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-2 (bg)	12.89	88	74	Yes	19	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-1D (bg)	0.8971	154	87	Yes	21	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-2I (bg)	1.209	91	87	Yes	21	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3D (bg)	0.2566	105	87	Yes	21	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3I (bg)	1.155	119	87	Yes	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-47 (bg)	-12.84	-95	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-211 (bg)	9.895	91	87	Yes	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-39 (bg)	27.52	85	68	Yes	18	0	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/9/2023, 6:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron, total (mg/L)	YGWA-47 (bg)	-0.0005874	-51	-68	No	18	5.556	n/a	0.01	NP
Boron, total (mg/L)	YGWC-44	-0.01408	-55	-68	No	18	0	n/a	0.01	NP
Boron, total (mg/L)	YGWC-45	0.001634	20	68	No	18	0	n/a	0.01	NP
Boron, total (mg/L)	YGWA-17S (bg)	0.0004386	55	87	No	21	14.29	n/a	0.01	NP
Boron, total (mg/L)	YGWA-18I (bg)	0	-14	-87	No	21	80.95	n/a	0.01	NP
Boron, total (mg/L)	YGWA-18S (bg)	0.0006414	54	87	No	21	28.57	n/a	0.01	NP
Boron, total (mg/L)	YGWA-20S (bg)	0	-5	-87	No	21	90.48	n/a	0.01	NP
Boron, total (mg/L)	YGWA-21I (bg)	0	-28	-87	No	21	57.14	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>0.02058</b>	<b>92</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>5.556</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron, total (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>-0.01353</b>	<b>-106</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	YGWA-4I (bg)	0	13	87	No	21	71.43	n/a	0.01	NP
Boron, total (mg/L)	YGWA-5D (bg)	0.0006284	65	87	No	21	19.05	n/a	0.01	NP
Boron, total (mg/L)	YGWA-5I (bg)	0	-11	-87	No	21	66.67	n/a	0.01	NP
Boron, total (mg/L)	GWA-2 (bg)	0	35	74	No	19	68.42	n/a	0.01	NP
Boron, total (mg/L)	YGWA-14S (bg)	-0.0004045	-54	-87	No	21	9.524	n/a	0.01	NP
Boron, total (mg/L)	YGWA-1D (bg)	0.001652	58	87	No	21	42.86	n/a	0.01	NP
Boron, total (mg/L)	YGWA-1I (bg)	0	-13	-87	No	21	71.43	n/a	0.01	NP
Boron, total (mg/L)	YGWA-2I (bg)	0	2	87	No	21	80.95	n/a	0.01	NP
Boron, total (mg/L)	YGWA-30I (bg)	0	-13	-87	No	21	85.71	n/a	0.01	NP
Boron, total (mg/L)	YGWA-3D (bg)	0	16	87	No	21	61.9	n/a	0.01	NP
Boron, total (mg/L)	YGWA-3I (bg)	0	-13	-87	No	21	90.48	n/a	0.01	NP
Boron, total (mg/L)	YGWC-46A	0.07878	74	92	No	22	0	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-1.099</b>	<b>-122</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>5.556</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWC-45	-0.4199	-37	-68	No	18	0	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-17S (bg)</b>	<b>0.134</b>	<b>143</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-18I (bg)	0.05034	39	87	No	21	0	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-18S (bg)</b>	<b>-0.0757</b>	<b>-147</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-20S (bg)	0.02165	43	87	No	21	0	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-21I (bg)</b>	<b>0.6806</b>	<b>92</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>2.124</b>	<b>86</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-40 (bg)	-0.3452	-49	-68	No	18	5.556	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-4I (bg)	0.02012	12	87	No	21	0	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-1.349</b>	<b>-113</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>YGWA-5I (bg)</b>	<b>0.06491</b>	<b>106</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>2.437</b>	<b>87</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>5.263</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-14S (bg)	0	18	87	No	21	0	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-1D (bg)</b>	<b>0.4931</b>	<b>94</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>YGWA-1I (bg)</b>	<b>-0.08927</b>	<b>-112</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-2I (bg)	0	1	87	No	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-30I (bg)	0.02343	63	87	No	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-3D (bg)	0.2668	48	87	No	21	0	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-3I (bg)	0.5543	85	87	No	21	0	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWC-46A</b>	<b>2.352</b>	<b>105</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-0.3827</b>	<b>-108</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWC-44	0.1457	52	68	No	18	0	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-17S (bg)</b>	<b>0.6794</b>	<b>162</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>YGWA-18I (bg)</b>	<b>0.08671</b>	<b>96</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-18S (bg)	0.1048	63	87	No	21	0	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-20S (bg)</b>	<b>0.1049</b>	<b>130</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-21I (bg)	-0.07755	-57	-87	No	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-39 (bg)	0.699	68	68	No	18	0	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>0.3111</b>	<b>91</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-4I (bg)	0.05782	58	87	No	21	0	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-0.6409</b>	<b>-159</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-5I (bg)	0	6	87	No	21	0	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

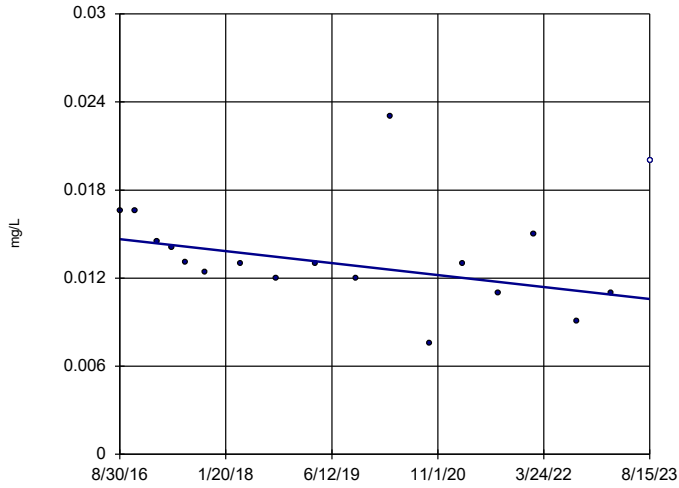
Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/9/2023, 6:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
<b>Chloride, Total (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>0.2897</b>	<b>101</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-14S (bg)	0.102	55	87	No	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-1D (bg)	0	-24	-87	No	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-1I (bg)	0	-25	-87	No	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-2I (bg)	-0.01766	-41	-87	No	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-30I (bg)	-0.01564	-40	-87	No	21	0	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-3D (bg)</b>	<b>-0.03797</b>	<b>-98</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-3I (bg)	-0.02296	-79	-87	No	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	YGWC-46A	-0.2173	-10	-92	No	22	0	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-13.93</b>	<b>-138</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-17S (bg)	0	5	87	No	21	0	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-18I (bg)</b>	<b>-0.1191</b>	<b>-112</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>19.05</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-18S (bg)	-0.112	-71	-87	No	21	9.524	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-20S (bg)	0	54	87	No	21	71.43	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-21I (bg)	-0.1972	-61	-87	No	21	0	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>-2.62</b>	<b>-107</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>-7.156</b>	<b>-120</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-4I (bg)	0.0251	16	87	No	21	0	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-2.402</b>	<b>-162</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-5I (bg)</b>	<b>0.08787</b>	<b>138</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>12.89</b>	<b>88</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-14S (bg)	-0.04669	-29	-87	No	21	0	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-1D (bg)</b>	<b>0.8971</b>	<b>154</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-1I (bg)	-0.06392	-13	-87	No	21	0	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-2I (bg)</b>	<b>1.209</b>	<b>91</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-30I (bg)	-0.03548	-33	-87	No	21	9.524	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-3D (bg)</b>	<b>0.2566</b>	<b>105</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-3I (bg)</b>	<b>1.155</b>	<b>119</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWC-46A	-34.63	-90	-92	No	22	4.545	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-12.84</b>	<b>-95</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	YGWC-44	-2.924	-24	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-45	0	-2	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-17S (bg)	2.283	46	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-18I (bg)	-1.363	-33	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-18S (bg)	1.344	26	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-20S (bg)	2.575	48	87	No	21	0	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWA-21I (bg)</b>	<b>9.895</b>	<b>91</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>27.52</b>	<b>85</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	YGWA-40 (bg)	-6.016	-59	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-4I (bg)	0.6864	14	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-5D (bg)	-9.186	-72	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-5I (bg)	-0.77	-20	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GWA-2 (bg)	14.49	72	74	No	19	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-14S (bg)	0.8282	30	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-1D (bg)	2.147	46	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-1I (bg)	-0.3083	-7	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-2I (bg)	-0.5892	-11	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-30I (bg)	1.322	26	87	No	21	9.524	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-3D (bg)	1.819	27	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-3I (bg)	1.056	15	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-46A	-24.27	-33	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-52	-28.5	-29	-30	No	10	0	n/a	0.01	NP



### Sen's Slope Estimator

YGWA-47 (bg)

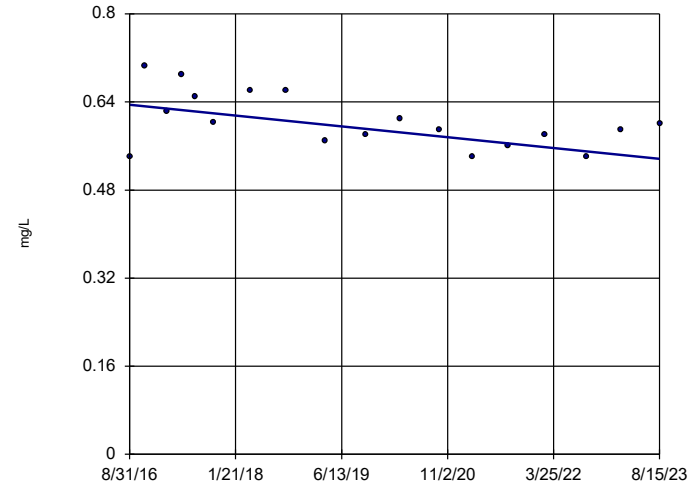


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Slope = -0.0005874  
units per year.  
Mann-Kendall  
statistic = -51  
critical = -68  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/9/2023 6:13 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWC-44

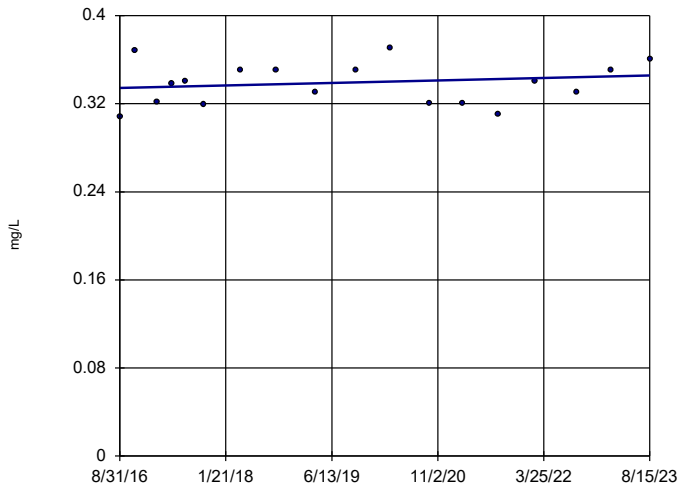


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Slope = -0.01408  
units per year.  
Mann-Kendall  
statistic = -55  
critical = -68  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/9/2023 6:13 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWC-45

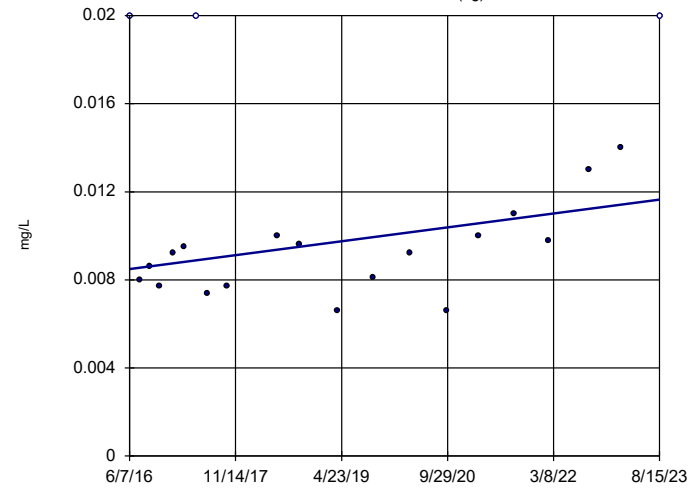


n = 18  
Slope = 0.001634  
units per year.  
Mann-Kendall  
statistic = 20  
critical = 68  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/9/2023 6:13 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-17S (bg)

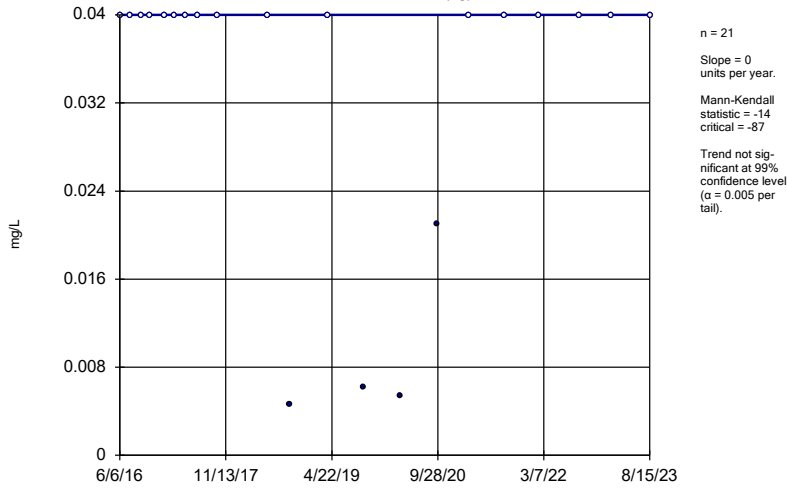


n = 21  
Slope = 0.0004386  
units per year.  
Mann-Kendall  
statistic = 55  
critical = 87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/9/2023 6:13 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

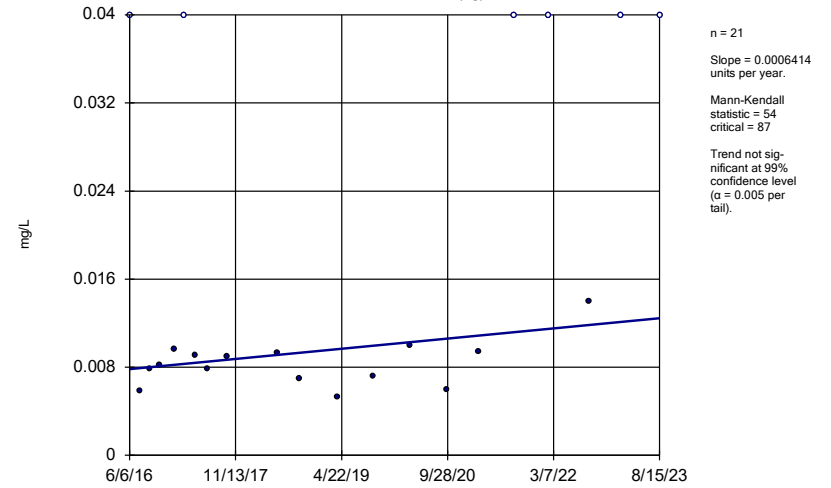
YGWA-18I (bg)



Constituent: Boron, total Analysis Run 10/9/2023 6:13 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

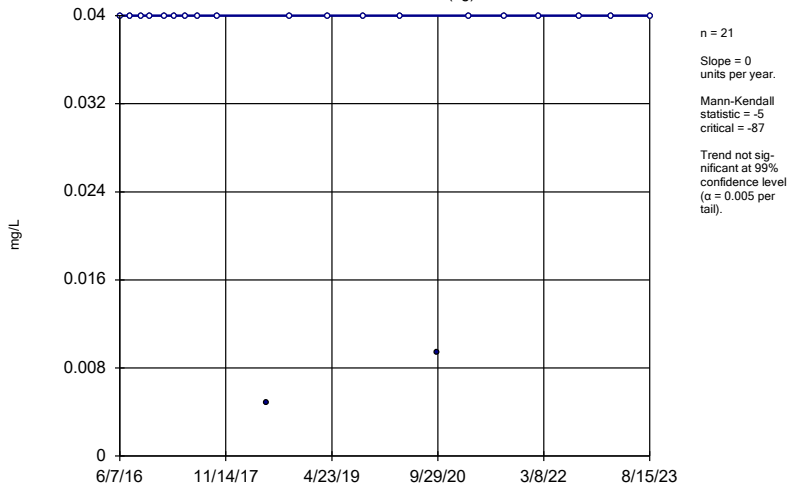
YGWA-18S (bg)



Constituent: Boron, total Analysis Run 10/9/2023 6:13 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

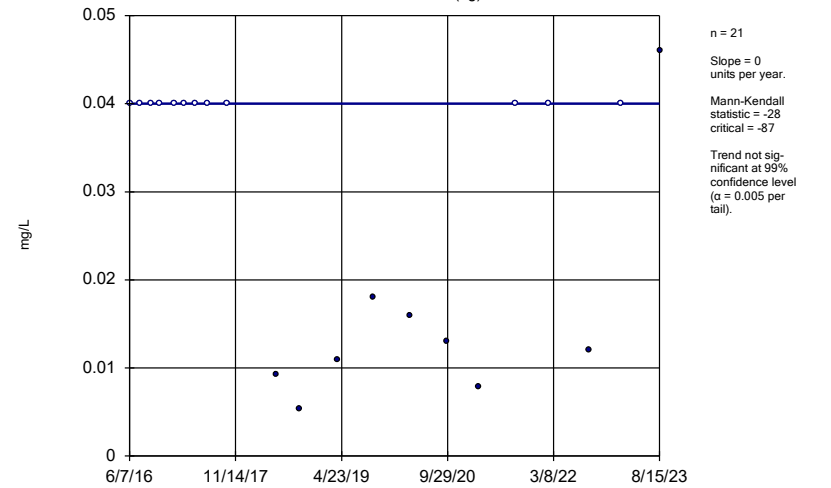
YGWA-20S (bg)



Constituent: Boron, total Analysis Run 10/9/2023 6:13 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

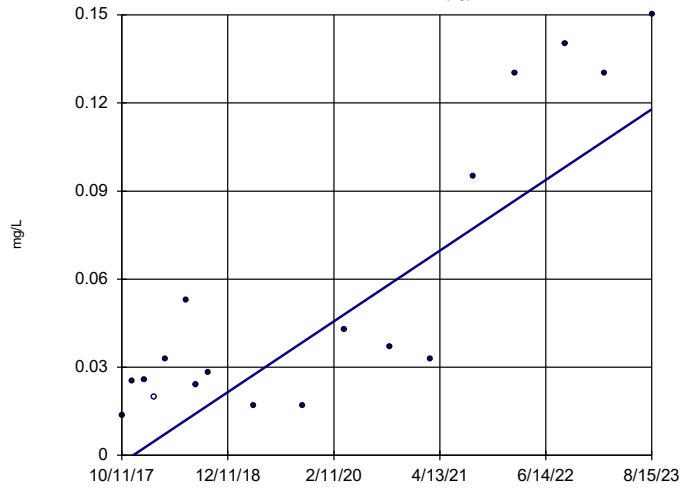
YGWA-21I (bg)



Constituent: Boron, total Analysis Run 10/9/2023 6:13 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-39 (bg)

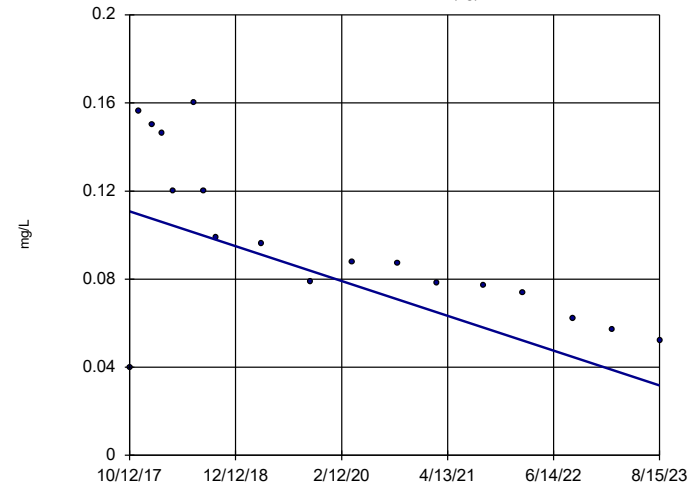


n = 18  
Slope = 0.02058  
units per year.  
Mann-Kendall  
statistic = 92  
critical = 68  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-40 (bg)

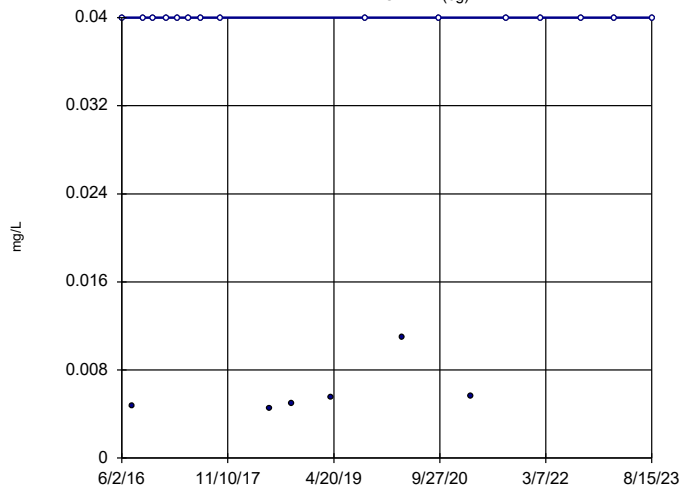


n = 18  
Slope = -0.01353  
units per year.  
Mann-Kendall  
statistic = -106  
critical = -68  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-41 (bg)

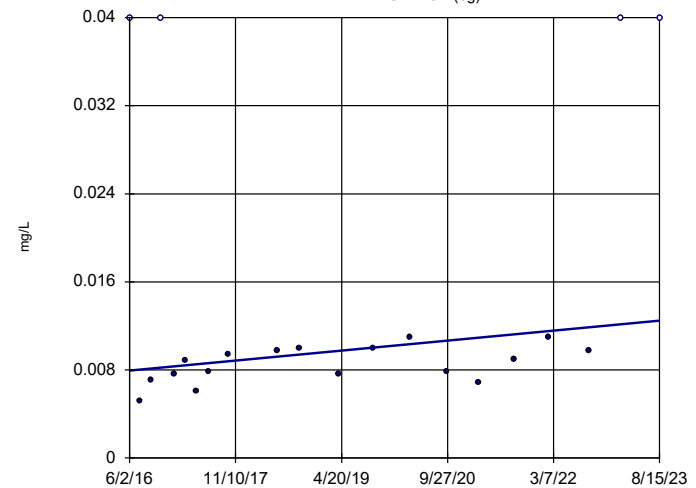


n = 21  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 13  
critical = 87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-5D (bg)

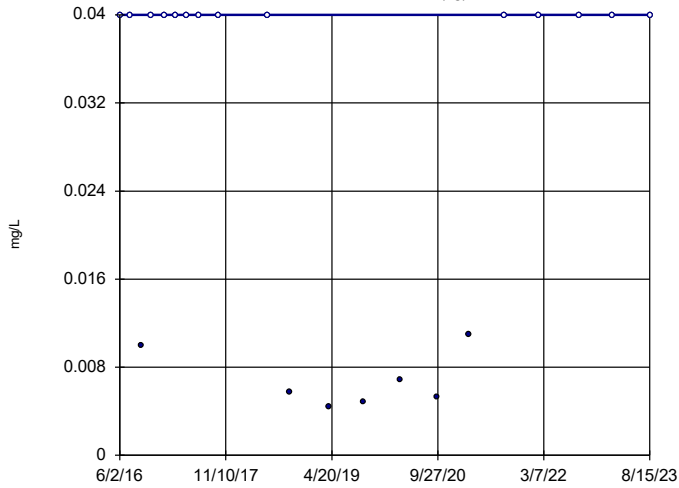


n = 21  
Slope = 0.0006284  
units per year.  
Mann-Kendall  
statistic = 65  
critical = 87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-5I (bg)

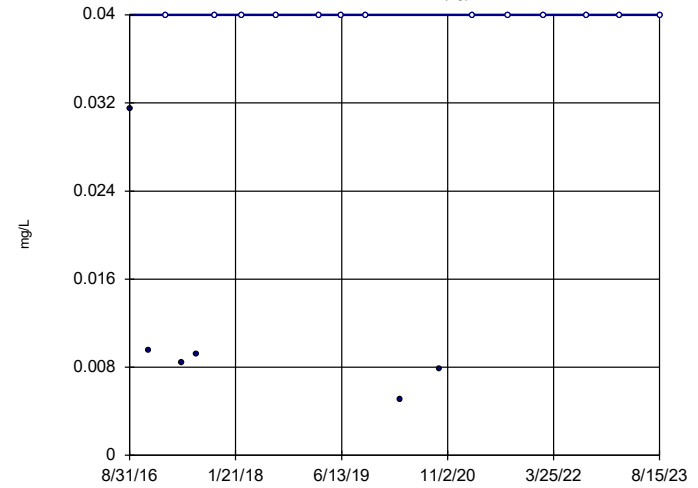


n = 21  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -11  
critical = -87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

GWA-2 (bg)

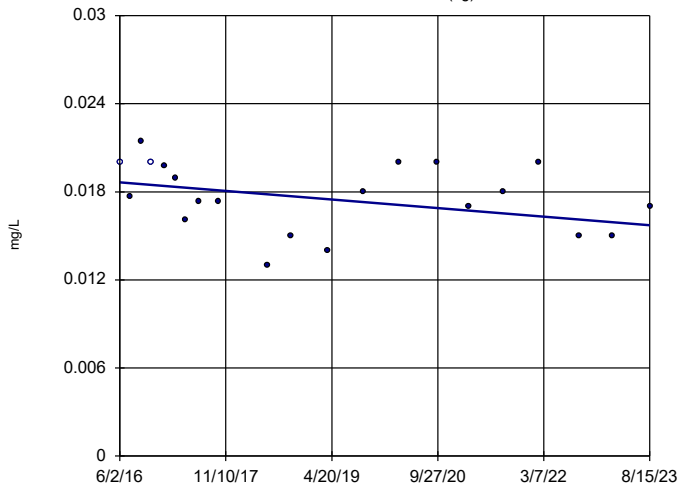


n = 19  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 35  
critical = 74  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-14S (bg)

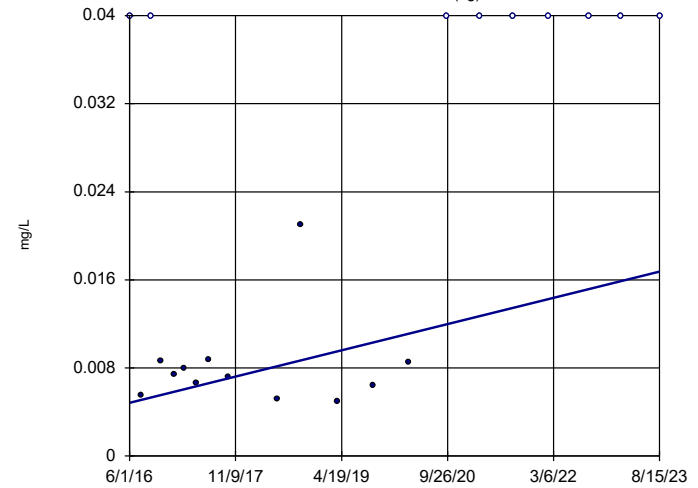


n = 21  
Slope = -0.0004045  
units per year.  
Mann-Kendall  
statistic = -54  
critical = -87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-1D (bg)

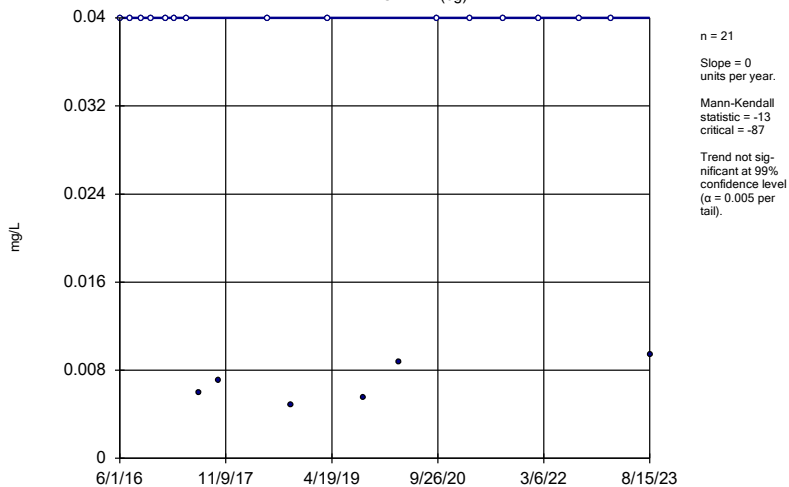


n = 21  
Slope = 0.001652  
units per year.  
Mann-Kendall  
statistic = 58  
critical = 87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

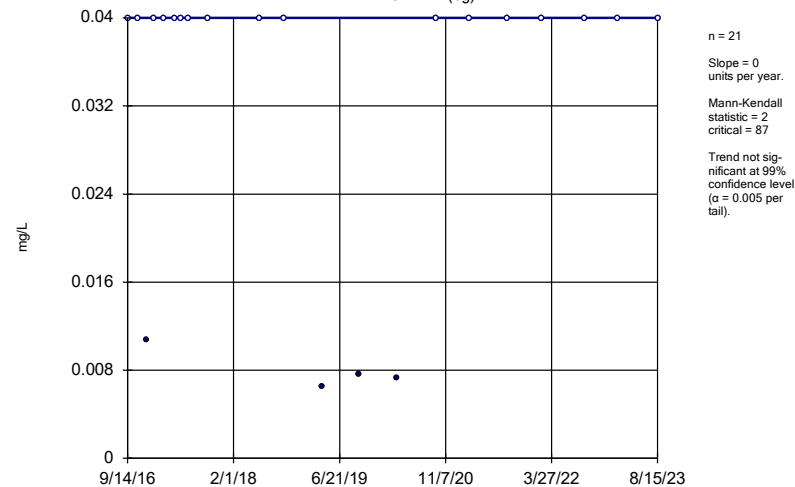
YGWA-11 (bg)



Constituent: Boron, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

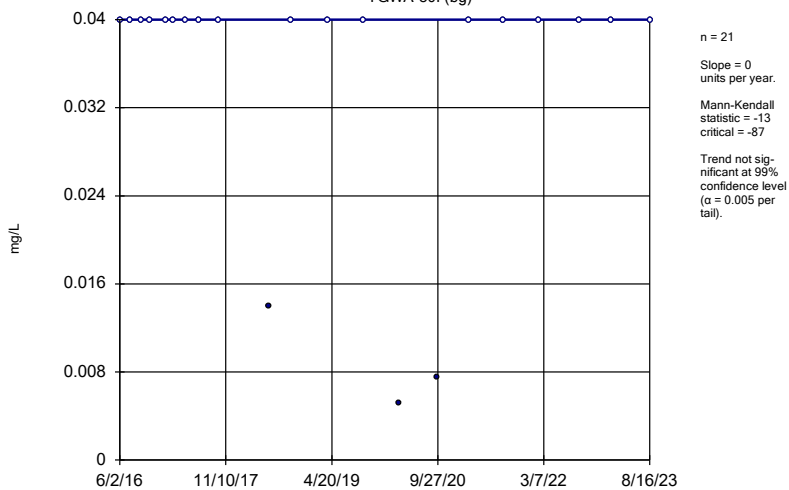
YGWA-21 (bg)



Constituent: Boron, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

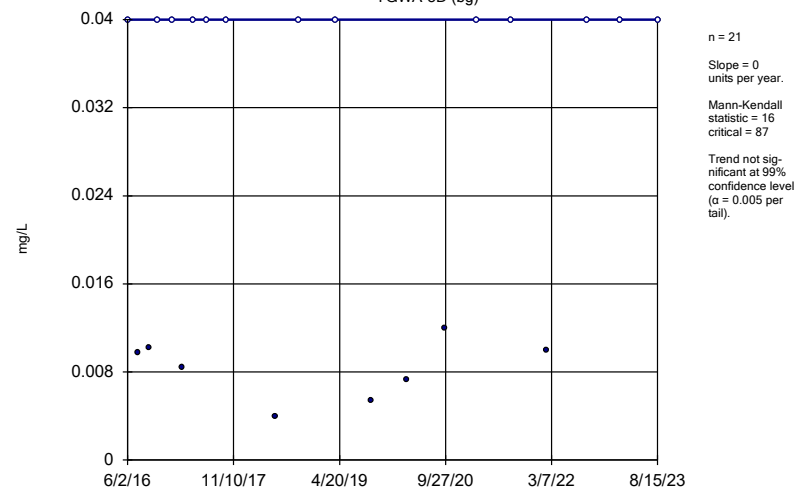
YGWA-30I (bg)



Constituent: Boron, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

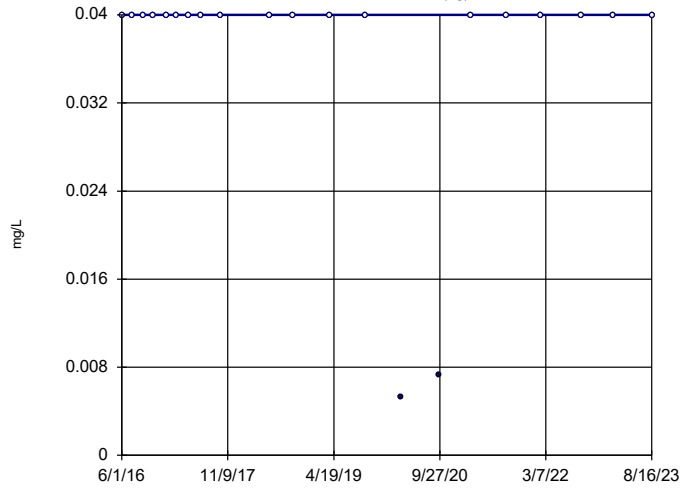
YGWA-3D (bg)



Constituent: Boron, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-31 (bg)

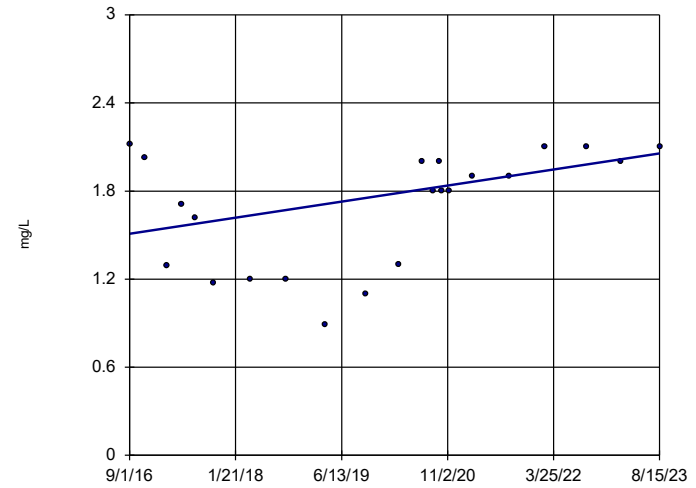


n = 21  
 Slope = 0 units per year.  
 Mann-Kendall statistic = -13  
 critical = -87  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

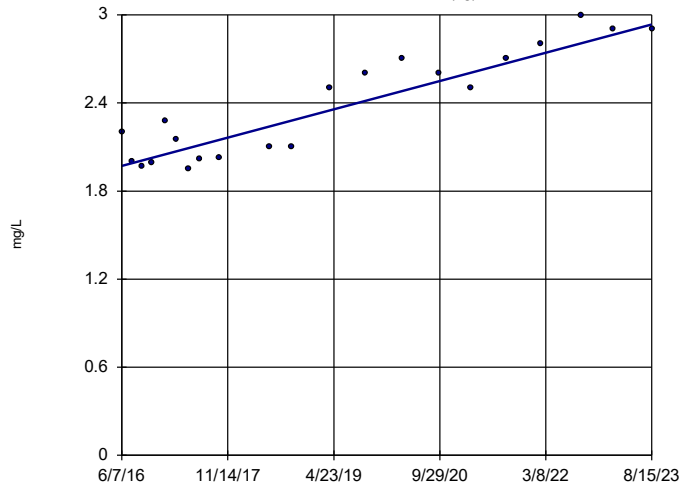
### Sen's Slope Estimator

YGWC-46A



### Sen's Slope Estimator

YGWA-17S (bg)

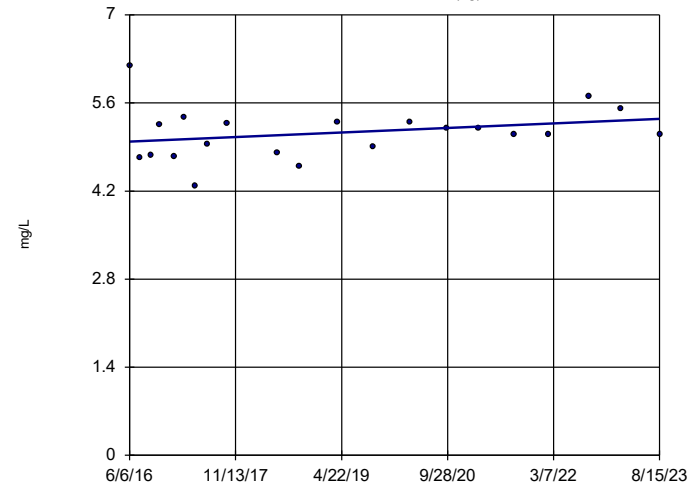


n = 21  
 Slope = 0.134 units per year.  
 Mann-Kendall statistic = 143  
 critical = 87  
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-18I (bg)

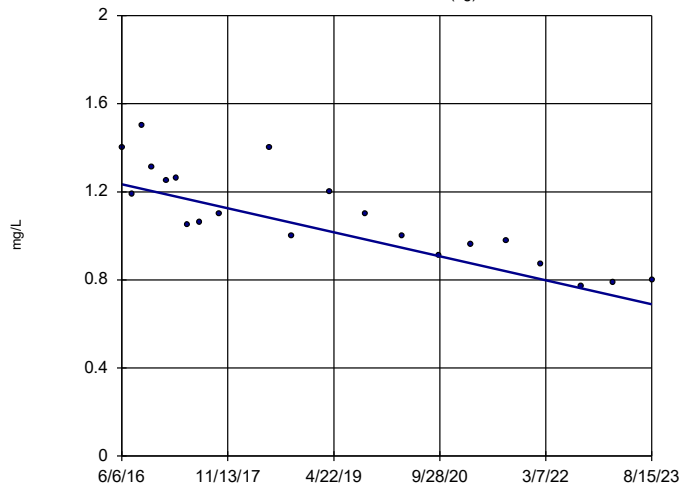


n = 21  
 Slope = 0.05034 units per year.  
 Mann-Kendall statistic = 39  
 critical = 87  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-18S (bg)

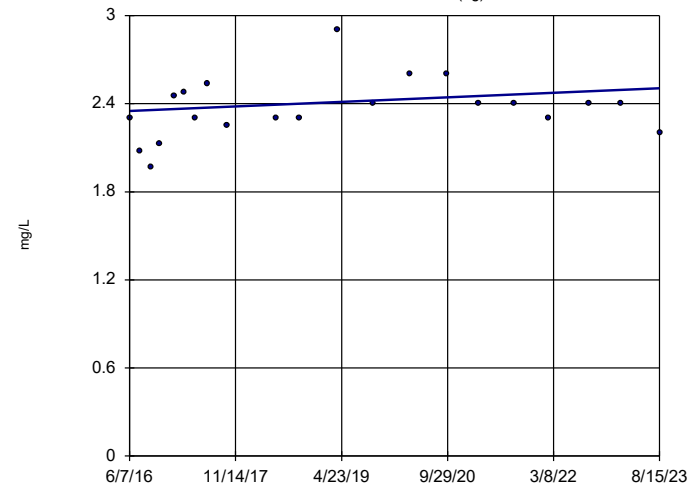


n = 21  
 Slope = -0.0757 units per year.  
 Mann-Kendall statistic = -147  
 critical = -87  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-20S (bg)

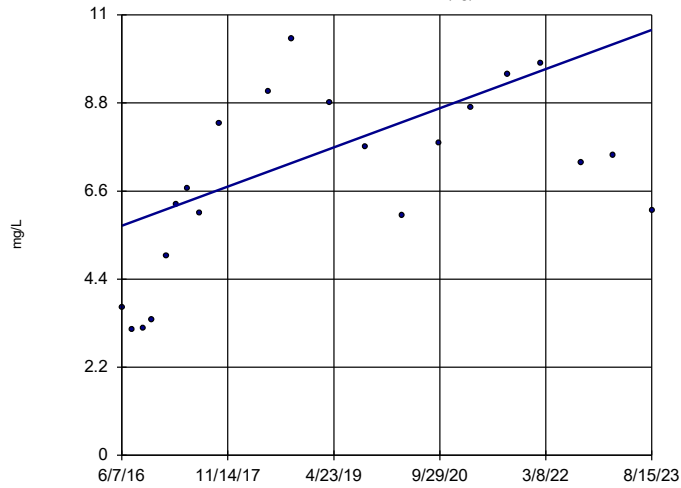


n = 21  
 Slope = 0.02165 units per year.  
 Mann-Kendall statistic = 43  
 critical = 87  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

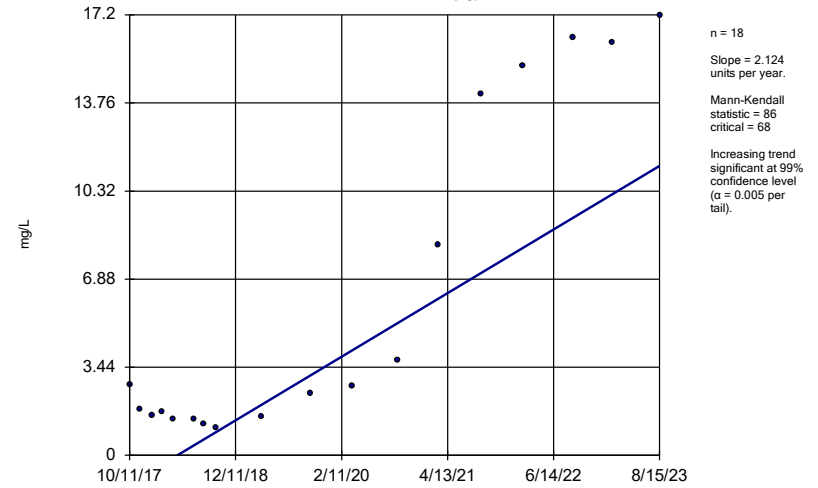
YGWA-211 (bg)



Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

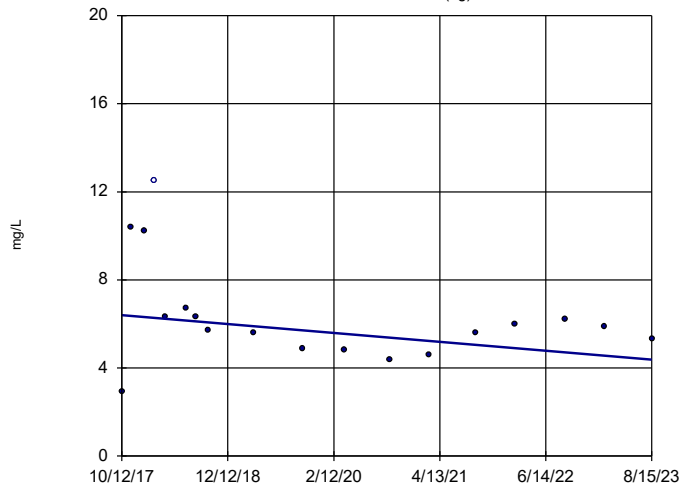
YGWA-39 (bg)



Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

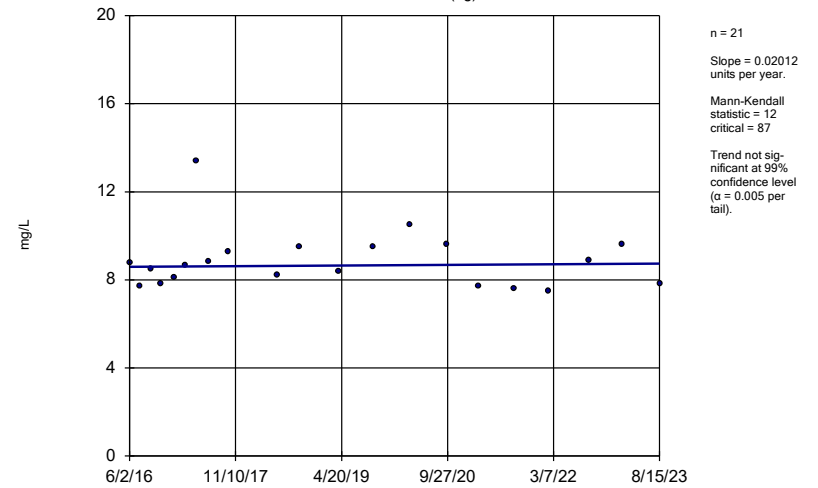
YGWA-40 (bg)



Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-41 (bg)

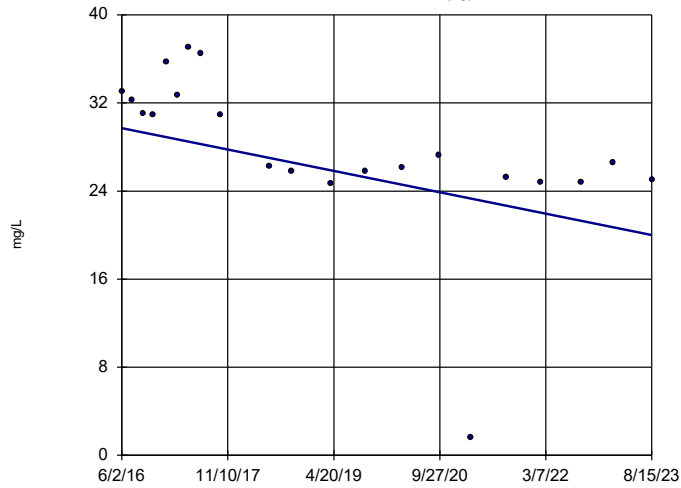


Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1



### Sen's Slope Estimator

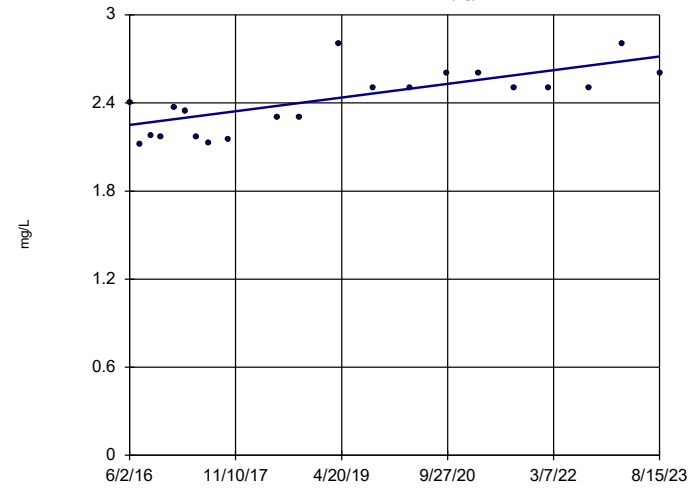
YGWA-5D (bg)



Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

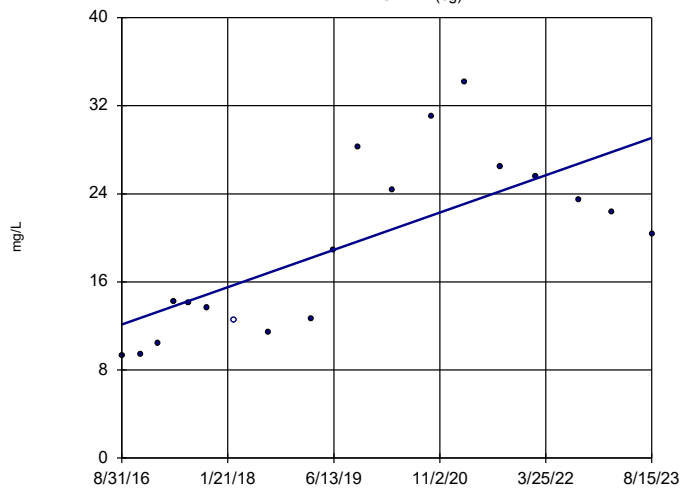
YGWA-5I (bg)



Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

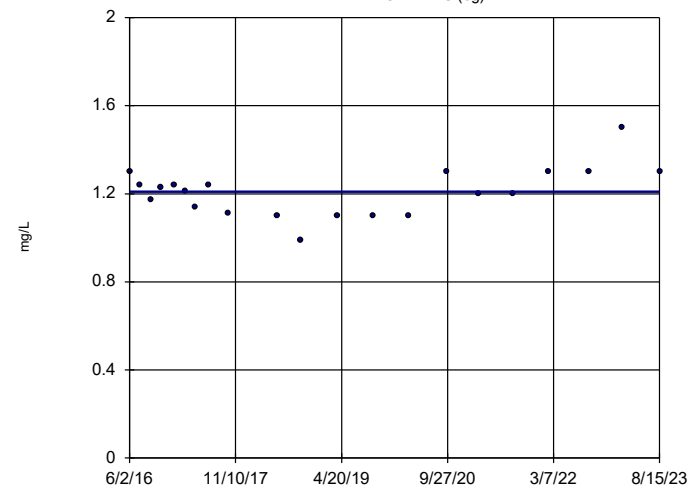
GWA-2 (bg)



Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

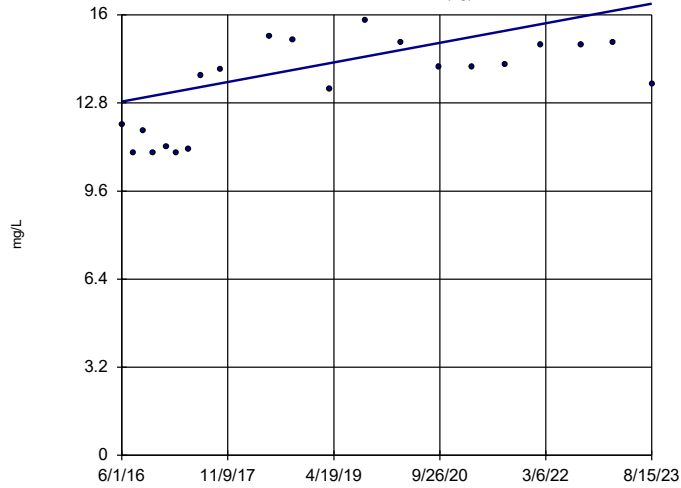
YGWA-14S (bg)



Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-1D (bg)

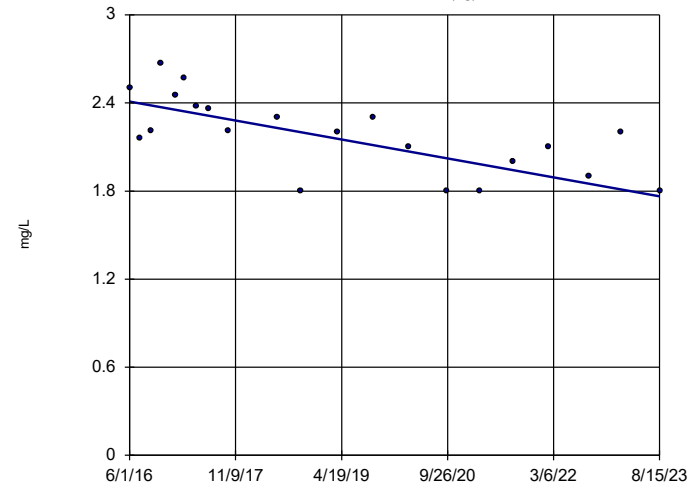


n = 21  
 Slope = 0.4931  
 units per year.  
 Mann-Kendall  
 statistic = 94  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-1I (bg)

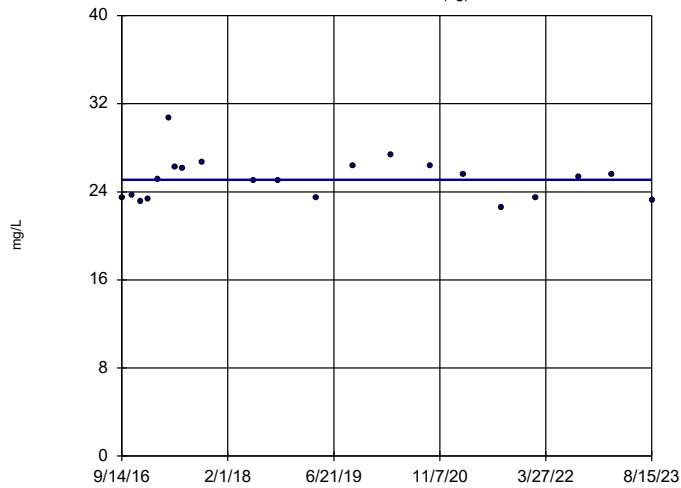


n = 21  
 Slope = -0.08927  
 units per year.  
 Mann-Kendall  
 statistic = -112  
 critical = -87  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-2I (bg)

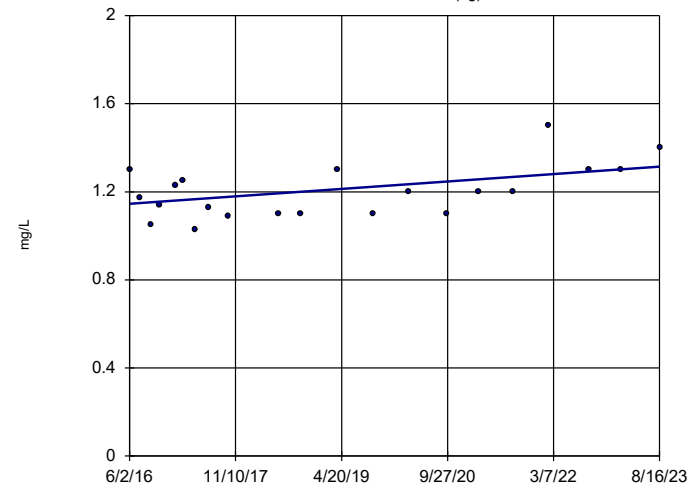


n = 21  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 1  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-30I (bg)

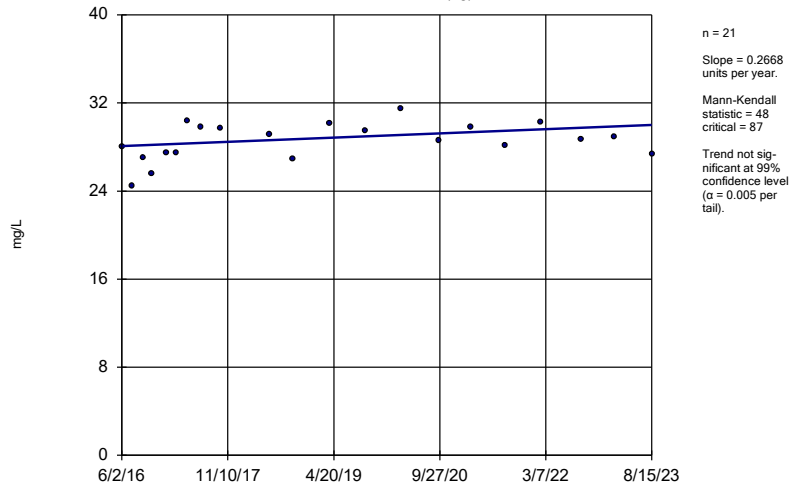


n = 21  
 Slope = 0.02343  
 units per year.  
 Mann-Kendall  
 statistic = 63  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

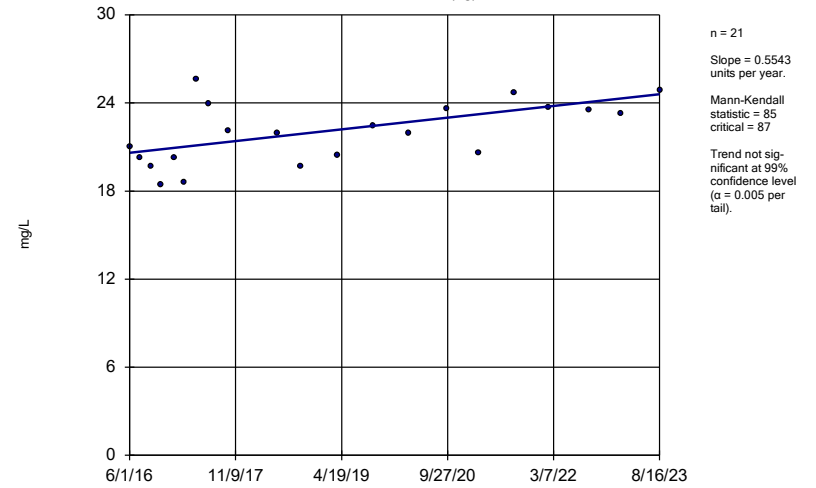
YGWA-3D (bg)



Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

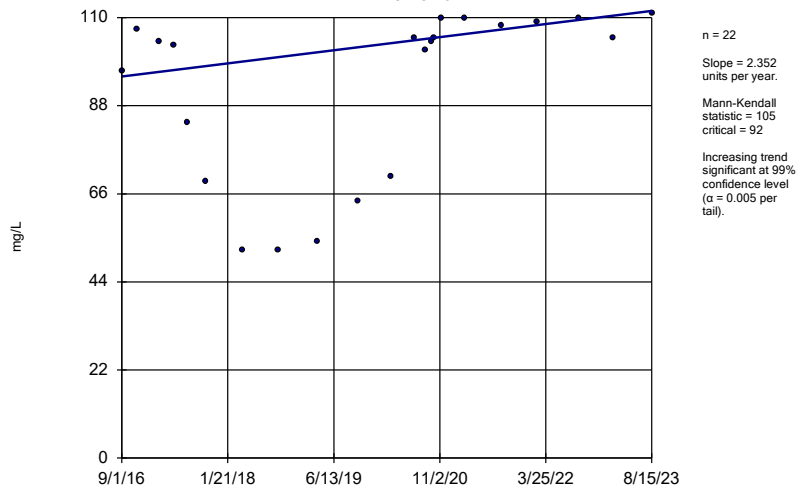
YGWA-3I (bg)



Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

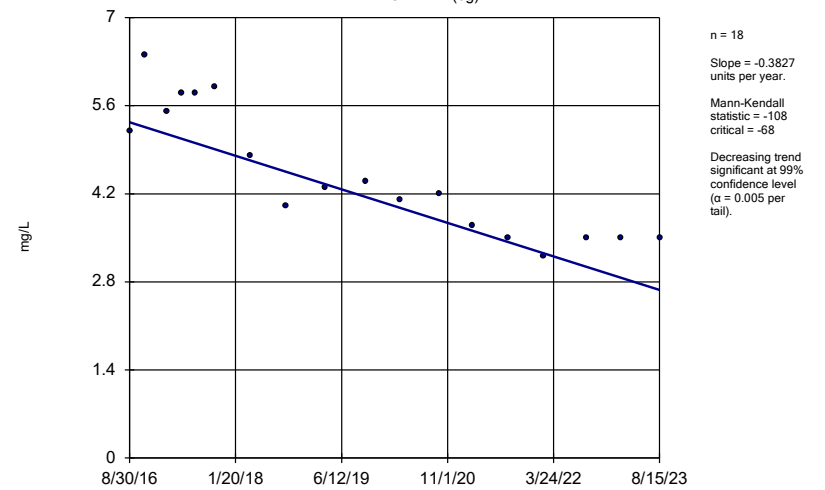
YGWC-46A



Constituent: Calcium, total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

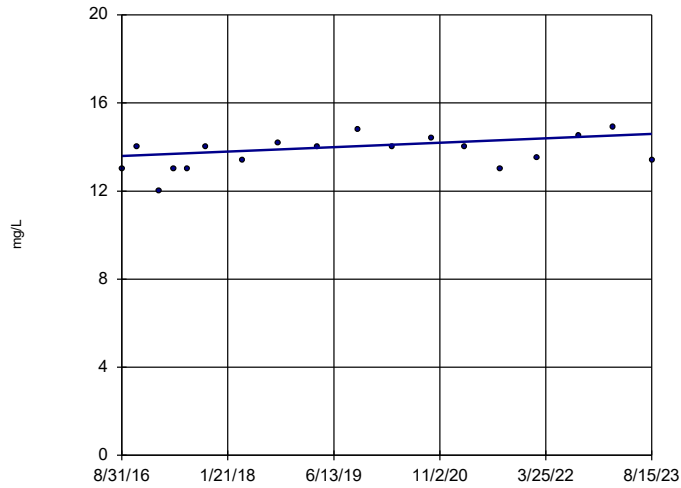
YGWA-47 (bg)



Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWC-44

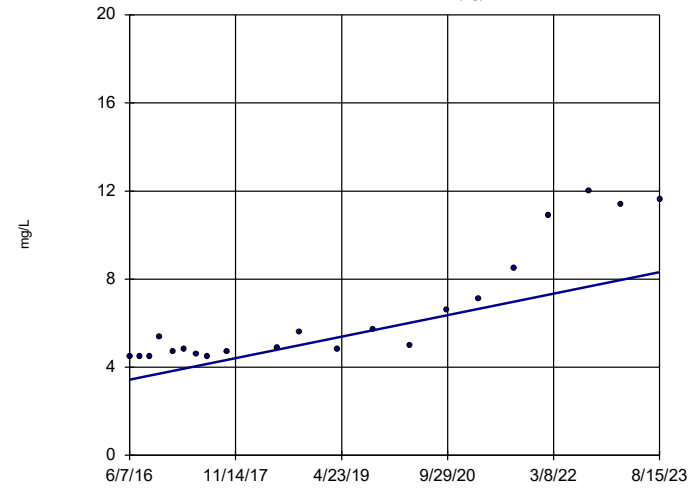


n = 18  
 Slope = 0.1457  
 units per year.  
 Mann-Kendall  
 statistic = 52  
 critical = 68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-17S (bg)

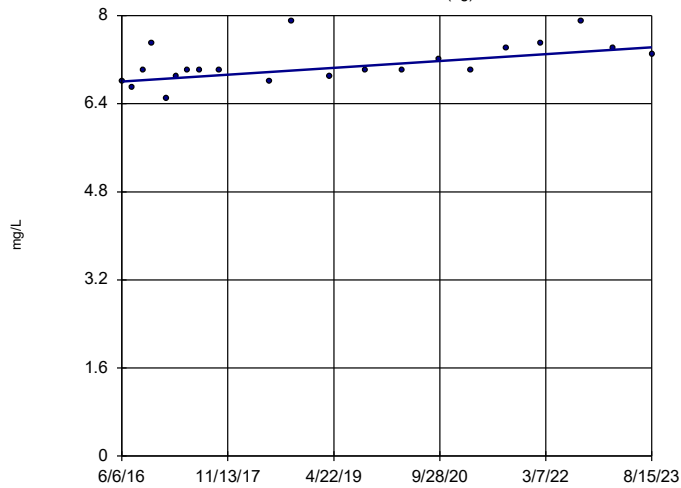


n = 21  
 Slope = 0.6794  
 units per year.  
 Mann-Kendall  
 statistic = 162  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-18I (bg)

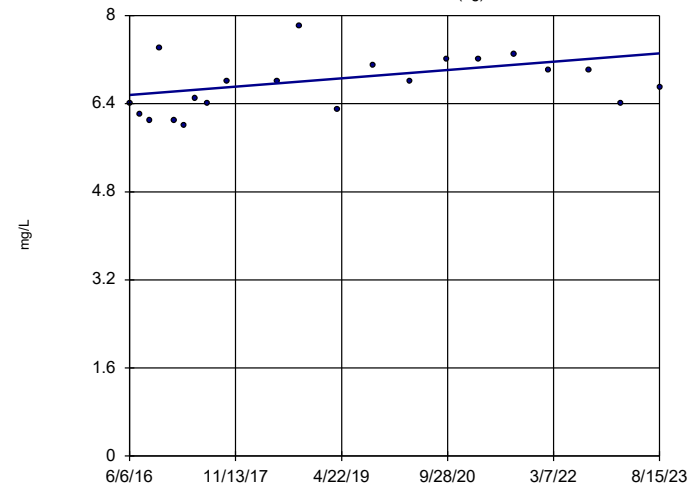


n = 21  
 Slope = 0.08671  
 units per year.  
 Mann-Kendall  
 statistic = 96  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-18S (bg)

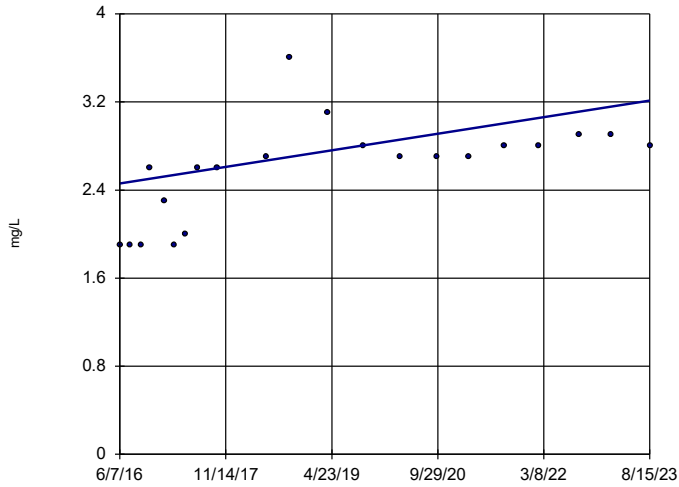


n = 21  
 Slope = 0.1048  
 units per year.  
 Mann-Kendall  
 statistic = 63  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

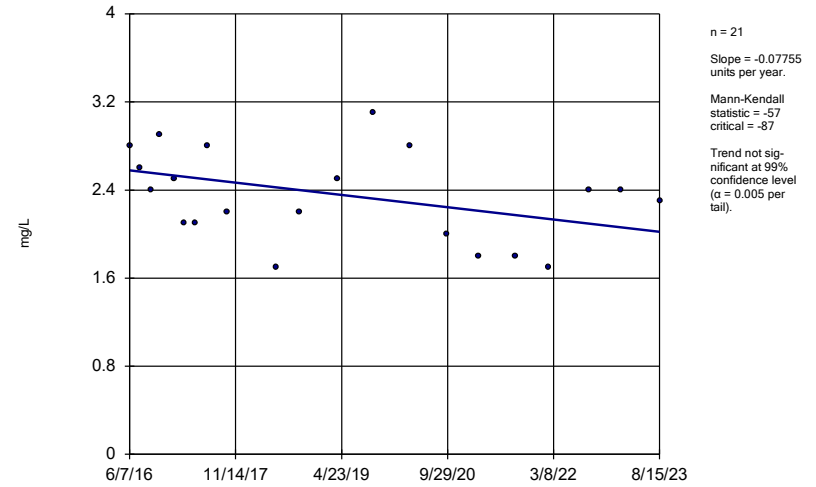
YGWA-20S (bg)



Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

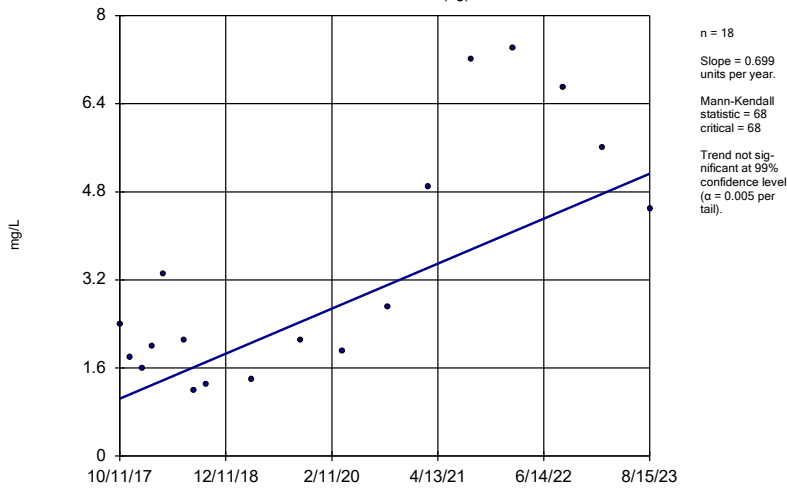
YGWA-21I (bg)



Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

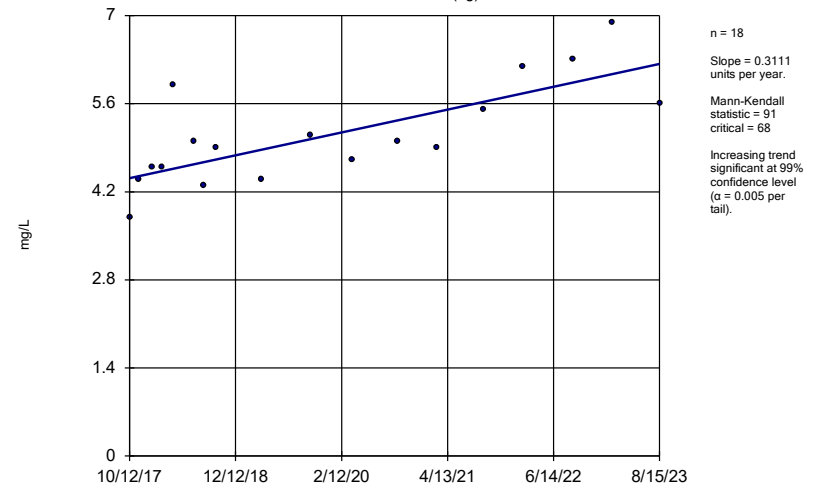
YGWA-39 (bg)



Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

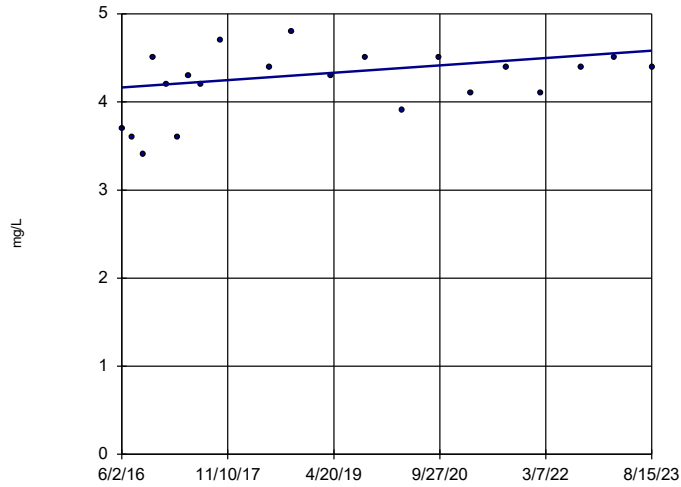
YGWA-40 (bg)



Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-4I (bg)

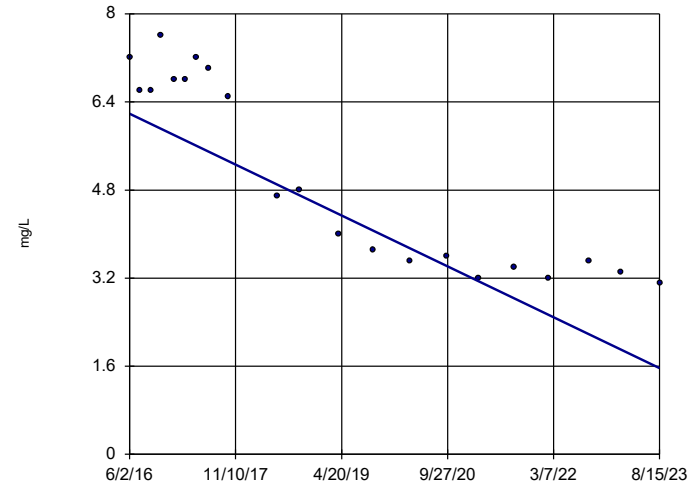


n = 21  
 Slope = 0.05782  
 units per year.  
 Mann-Kendall  
 statistic = 58  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-5D (bg)

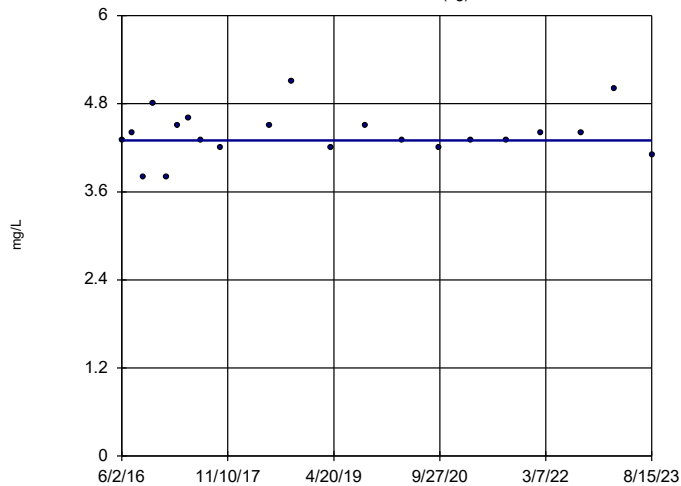


n = 21  
 Slope = -0.6409  
 units per year.  
 Mann-Kendall  
 statistic = -159  
 critical = -87  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-5I (bg)

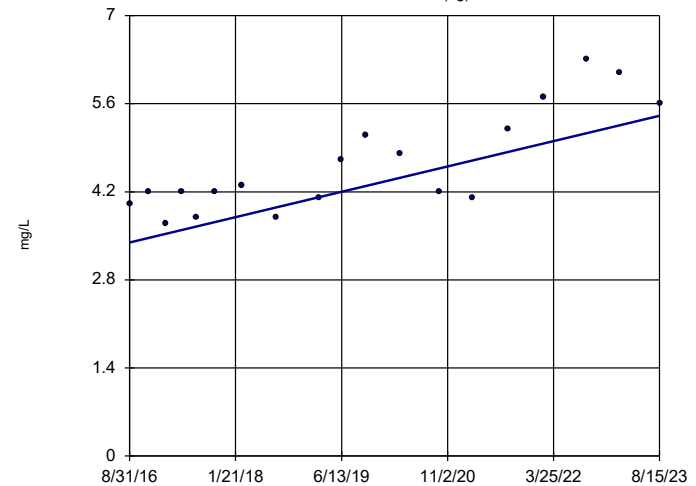


n = 21  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 6  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

GWA-2 (bg)

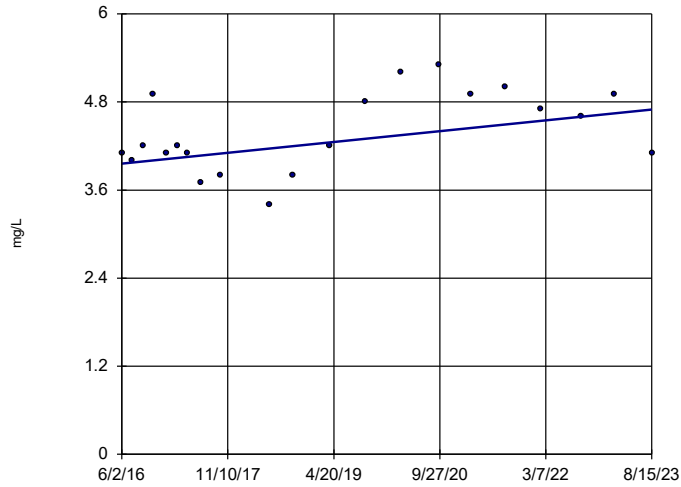


n = 19  
 Slope = 0.2897  
 units per year.  
 Mann-Kendall  
 statistic = 101  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-14S (bg)

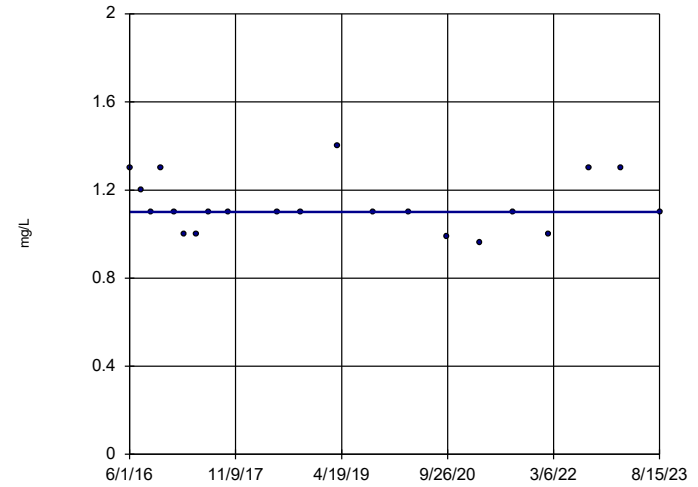


n = 21  
 Slope = 0.102  
 units per year.  
 Mann-Kendall  
 statistic = 55  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-1D (bg)

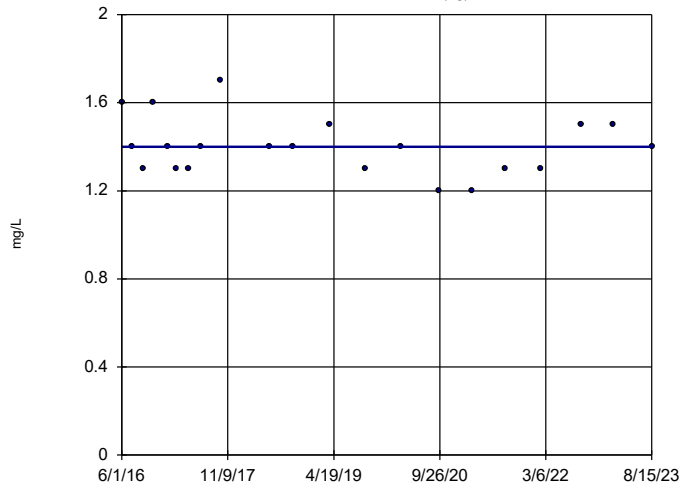


n = 21  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -24  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-11 (bg)

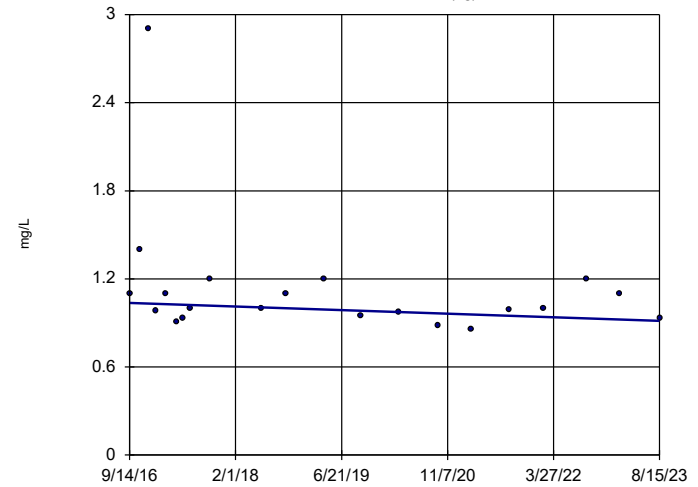


n = 21  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -25  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-2I (bg)

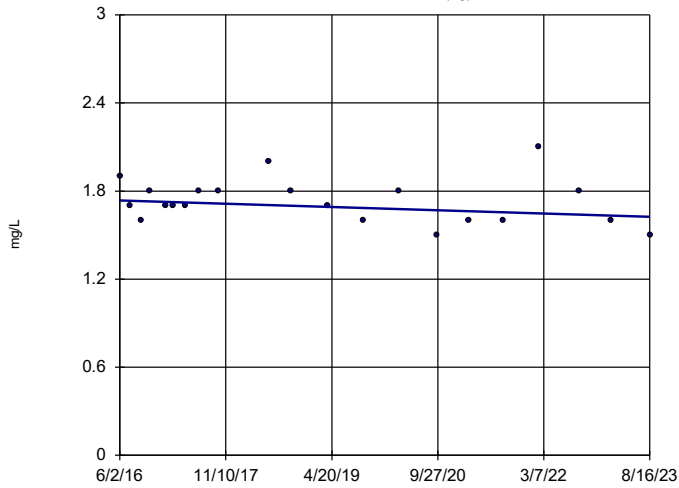


n = 21  
 Slope = -0.01766  
 units per year.  
 Mann-Kendall  
 statistic = -41  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

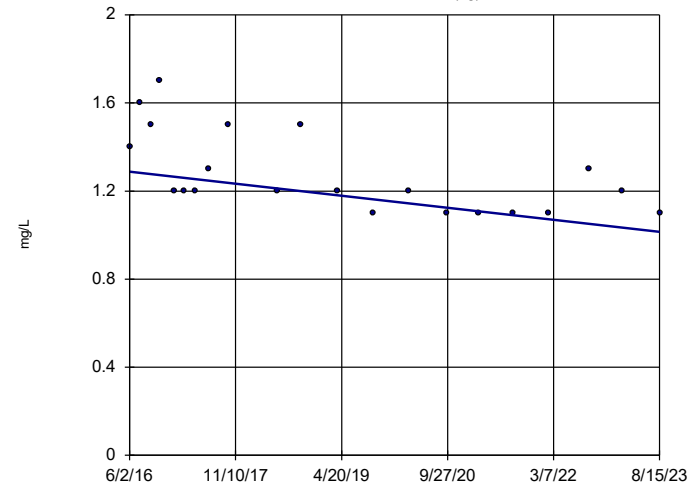
YGWA-30I (bg)



Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

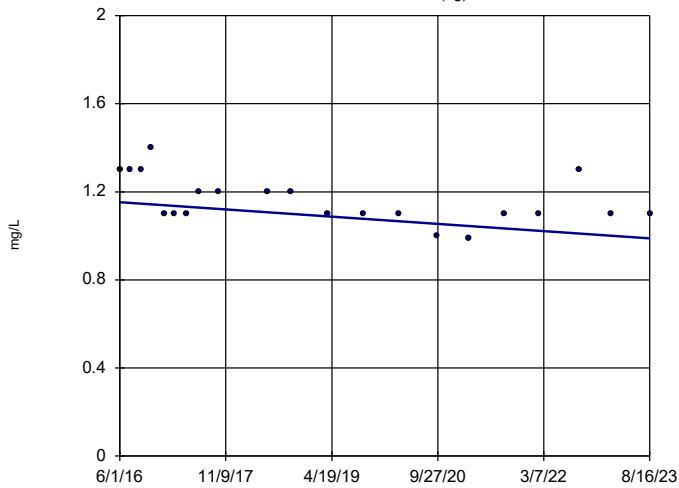
YGWA-3D (bg)



Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

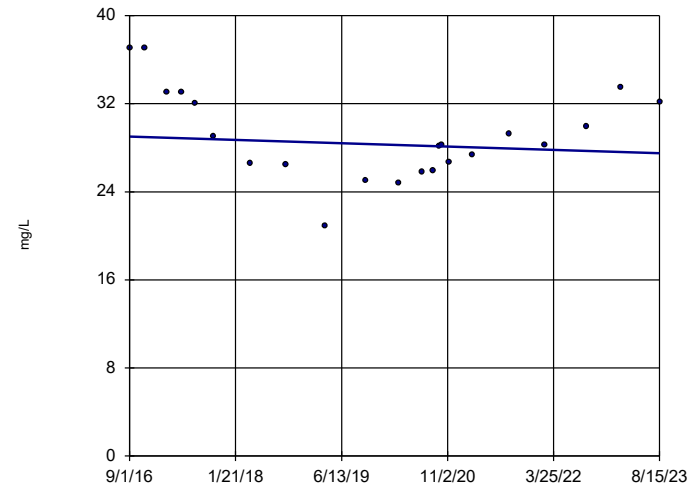
YGWA-3I (bg)



Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWC-46A

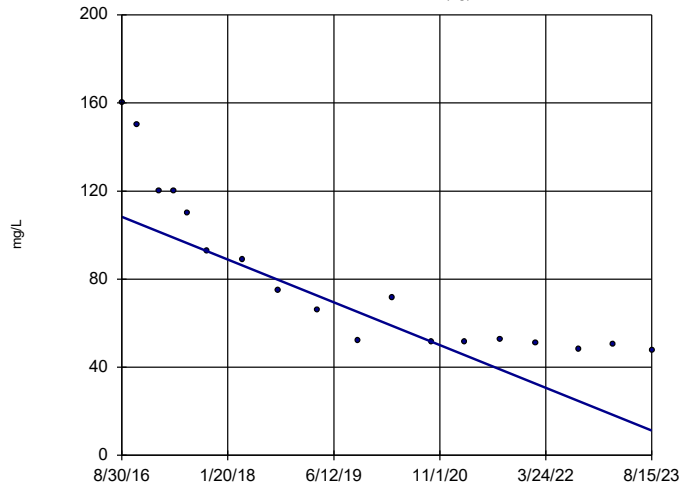


Constituent: Chloride, Total Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1



### Sen's Slope Estimator

YGWA-47 (bg)

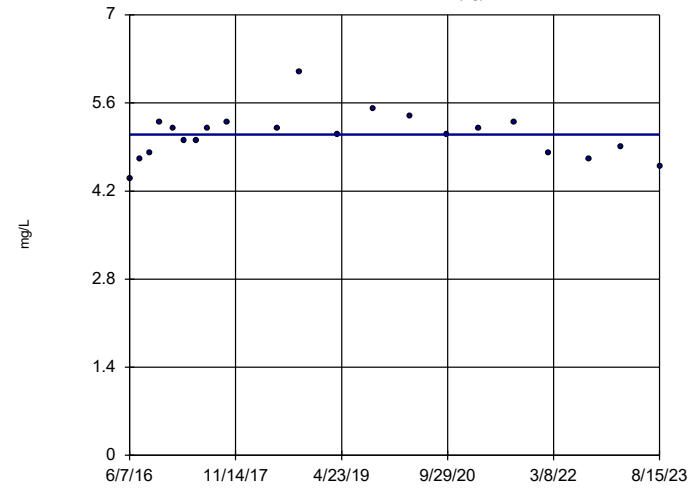


n = 18  
 Slope = -13.93 units per year.  
 Mann-Kendall statistic = -138  
 critical = -68  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-17S (bg)

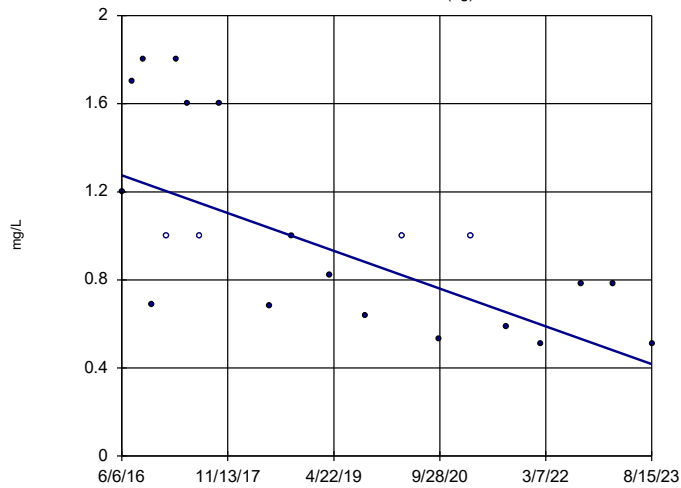


n = 21  
 Slope = 0 units per year.  
 Mann-Kendall statistic = 5  
 critical = 87  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-18I (bg)

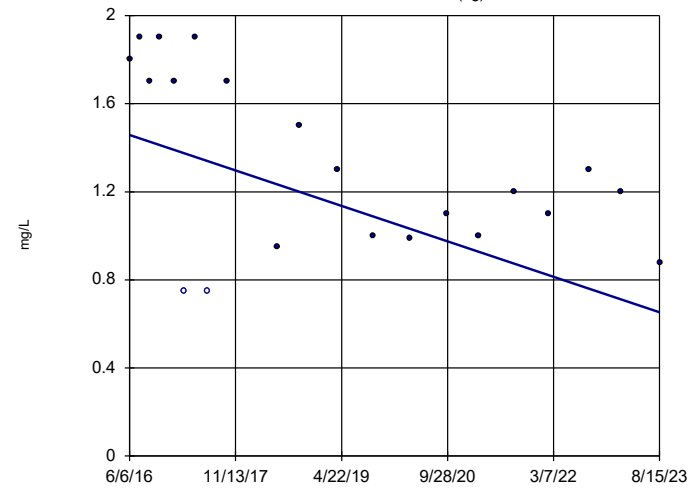


n = 21  
 Slope = -0.1191 units per year.  
 Mann-Kendall statistic = -112  
 critical = -87  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-18S (bg)

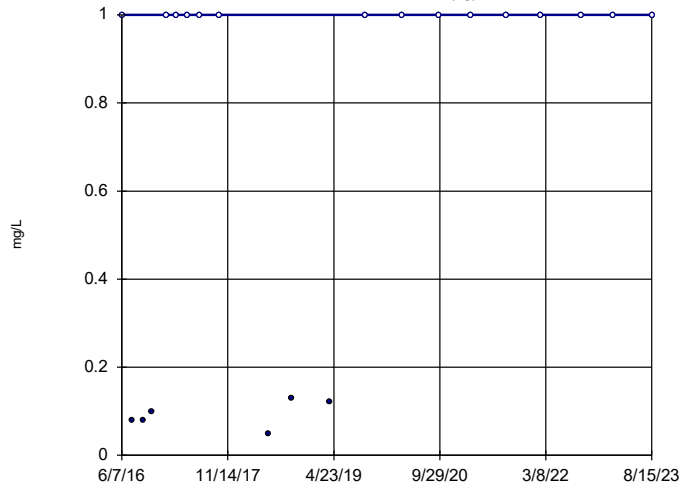


n = 21  
 Slope = -0.112 units per year.  
 Mann-Kendall statistic = -71  
 critical = -87  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-20S (bg)

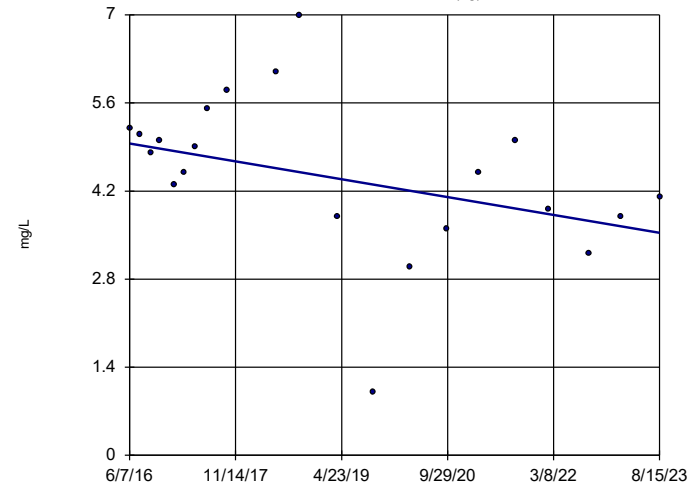


n = 21  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 54  
critical = 87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-211 (bg)

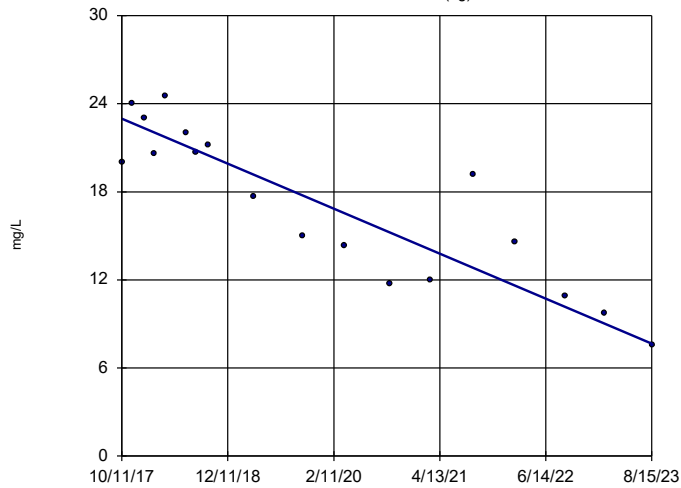


n = 21  
Slope = -0.1972  
units per year.  
Mann-Kendall  
statistic = -61  
critical = -87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-39 (bg)

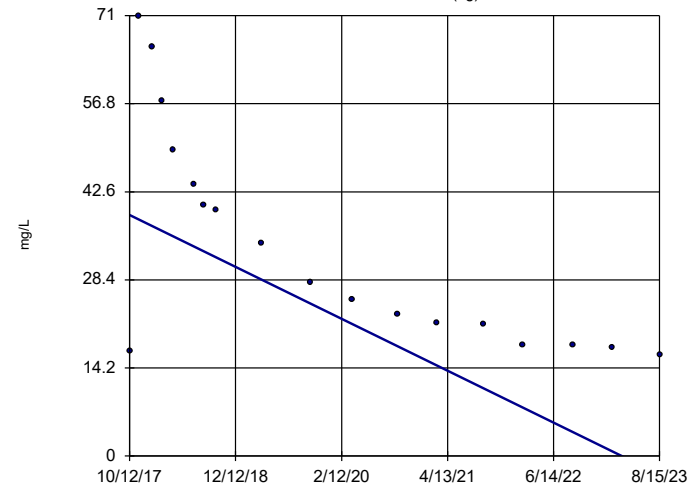


n = 18  
Slope = -2.62  
units per year.  
Mann-Kendall  
statistic = -107  
critical = -68  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-40 (bg)

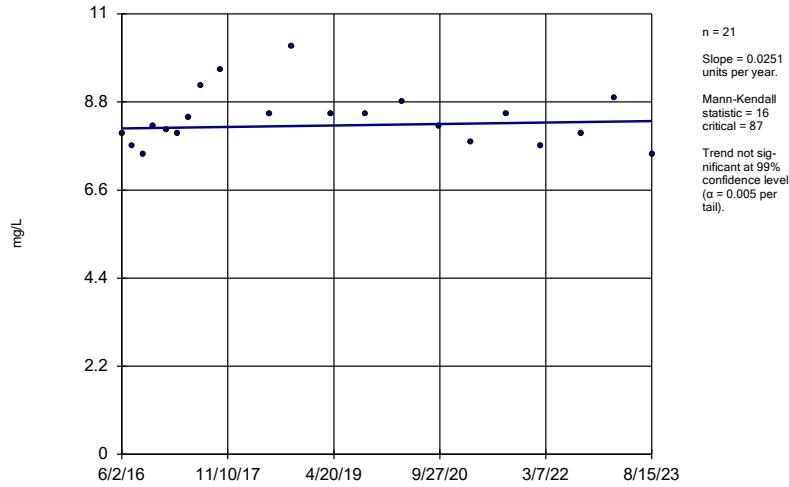


n = 18  
Slope = -7.156  
units per year.  
Mann-Kendall  
statistic = -120  
critical = -68  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

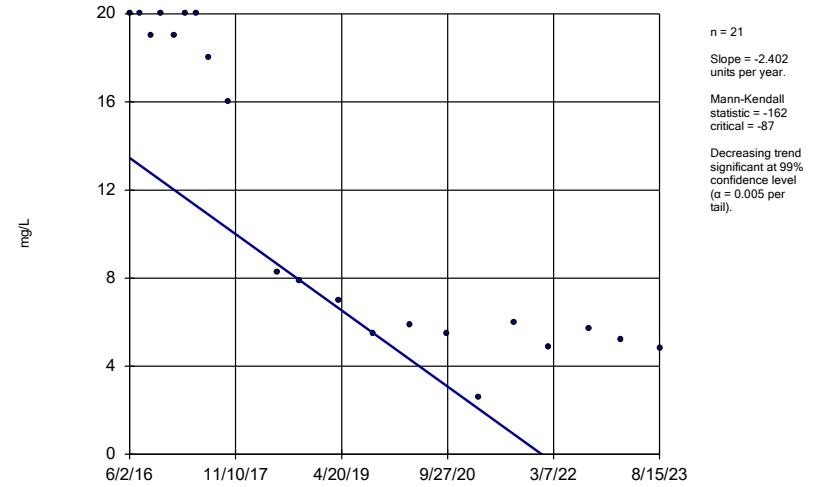
YGWA-4I (bg)



Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

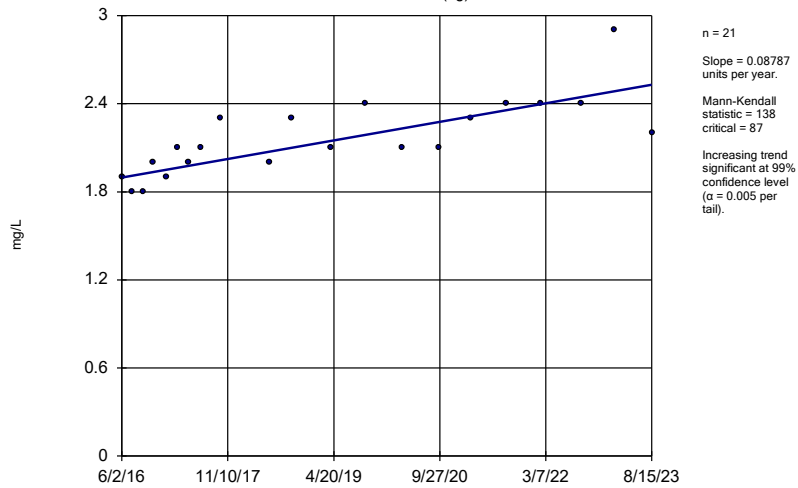
YGWA-5D (bg)



Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

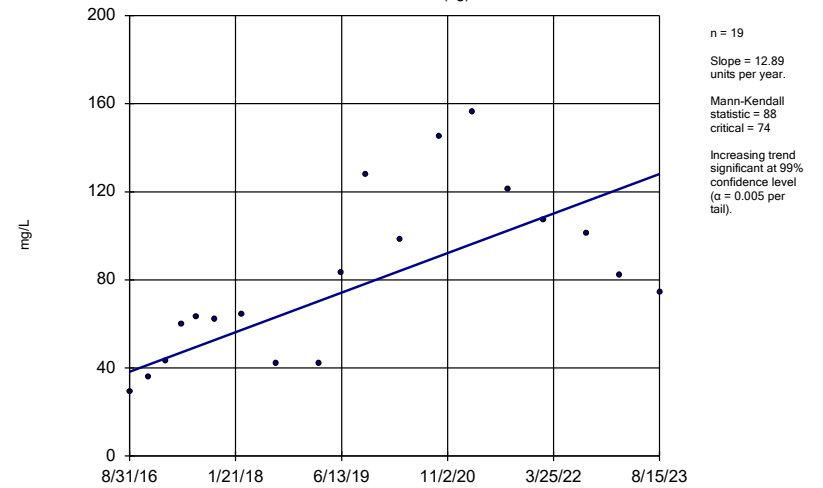
YGWA-5I (bg)



Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

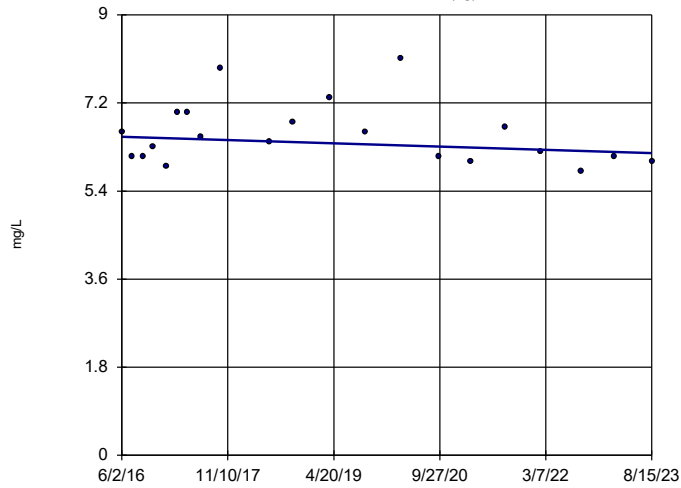
GWA-2 (bg)



Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-14S (bg)

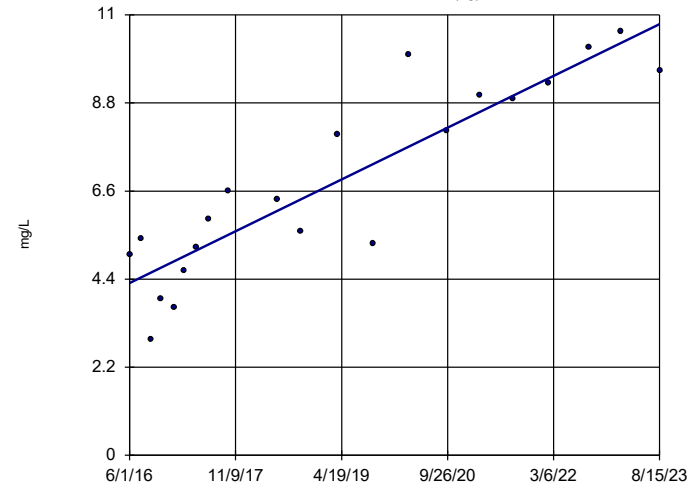


n = 21  
 Slope = -0.04669 units per year.  
 Mann-Kendall statistic = -29  
 critical = -87  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-1D (bg)

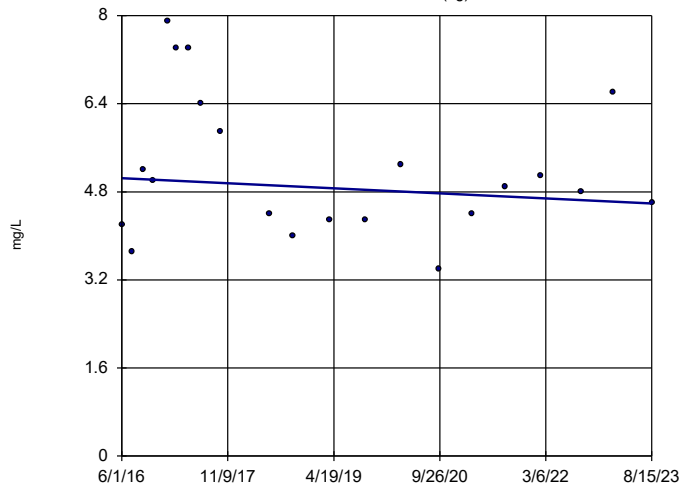


n = 21  
 Slope = 0.8971 units per year.  
 Mann-Kendall statistic = 154  
 critical = 87  
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-11 (bg)

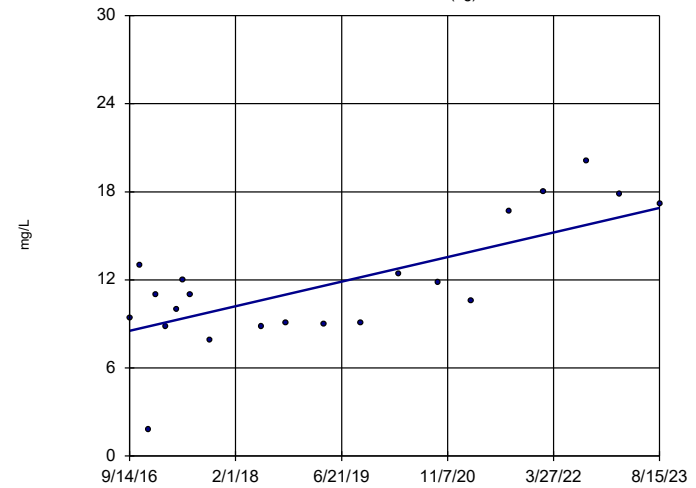


n = 21  
 Slope = -0.06392 units per year.  
 Mann-Kendall statistic = -13  
 critical = -87  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-2I (bg)

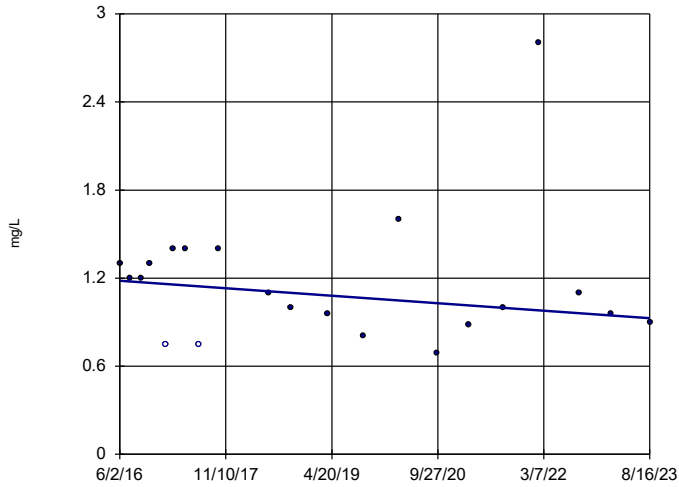


n = 21  
 Slope = 1.209 units per year.  
 Mann-Kendall statistic = 91  
 critical = 87  
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-30I (bg)

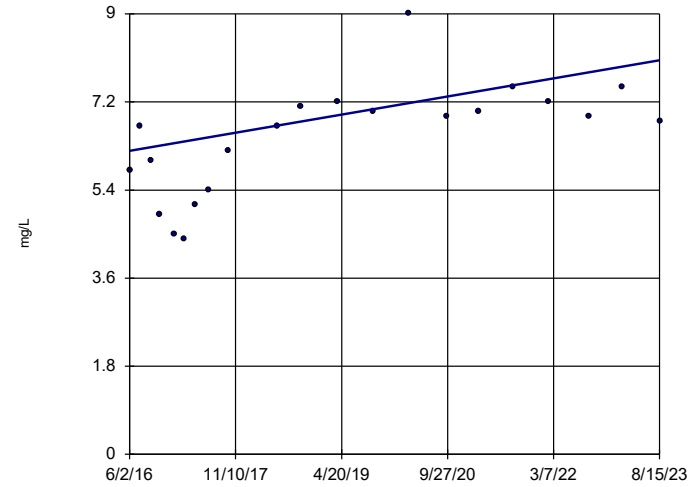


n = 21  
Slope = -0.03548  
units per year.  
Mann-Kendall  
statistic = -33  
critical = -87  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-3D (bg)

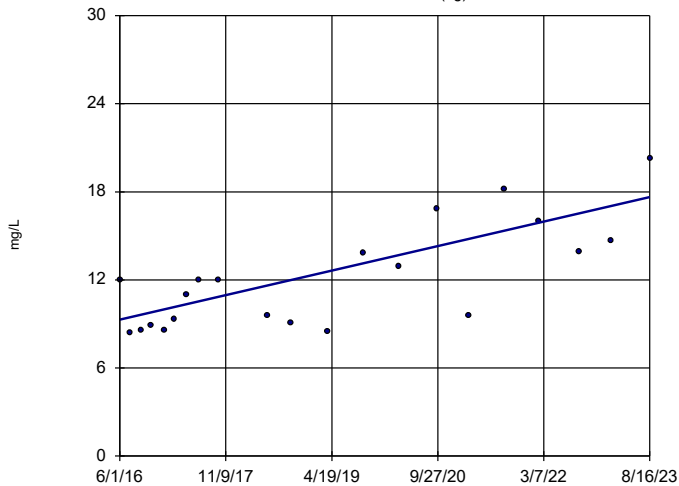


n = 21  
Slope = 0.2566  
units per year.  
Mann-Kendall  
statistic = 105  
critical = 87  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:14 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-3I (bg)

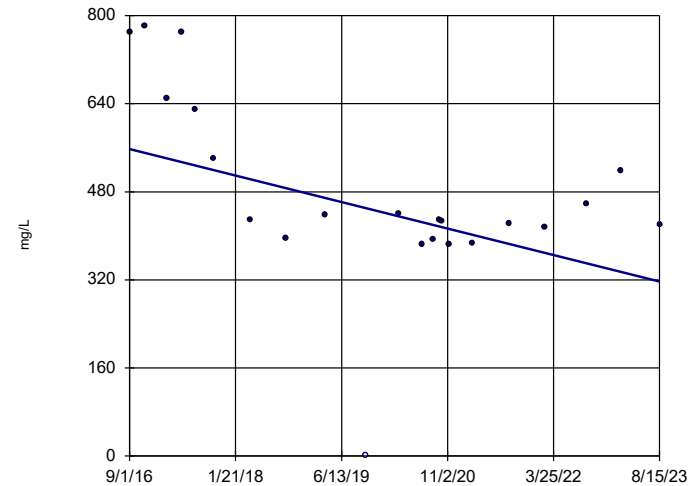


n = 21  
Slope = 1.155  
units per year.  
Mann-Kendall  
statistic = 119  
critical = 87  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWC-46A

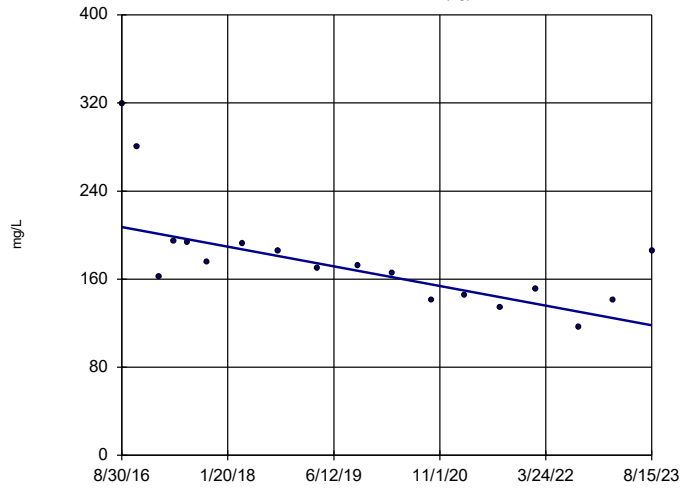


n = 22  
Slope = -34.63  
units per year.  
Mann-Kendall  
statistic = -90  
critical = -92  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate as SO4 Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

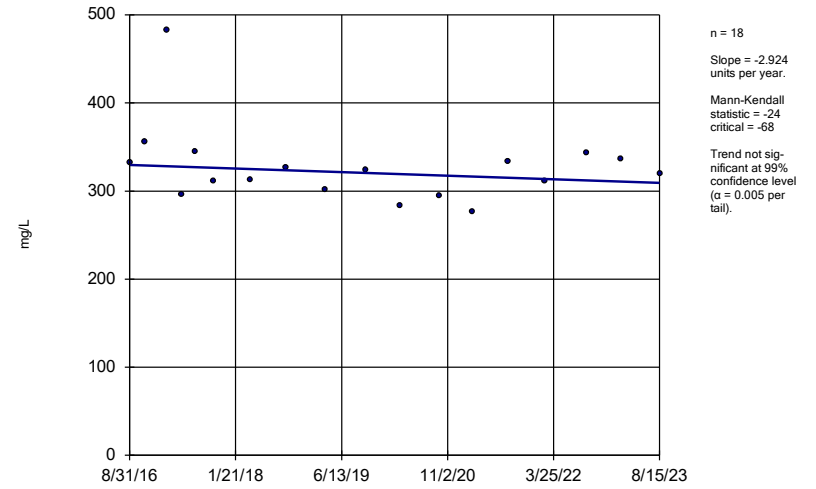
YGWA-47 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

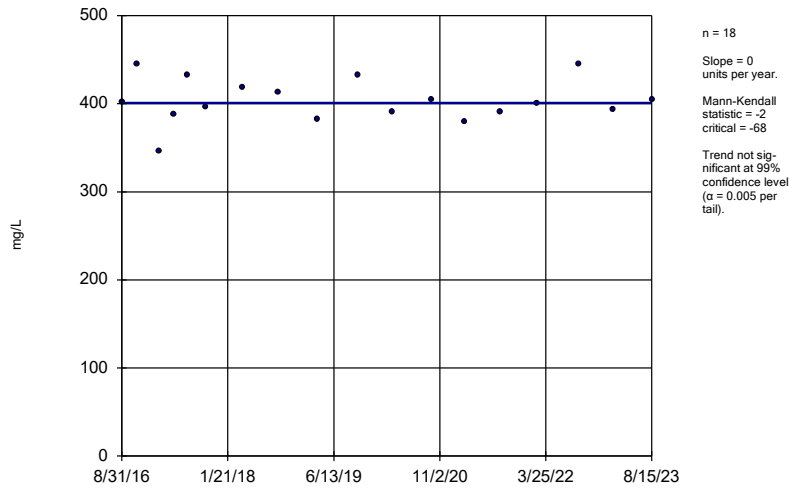
YGWC-44



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

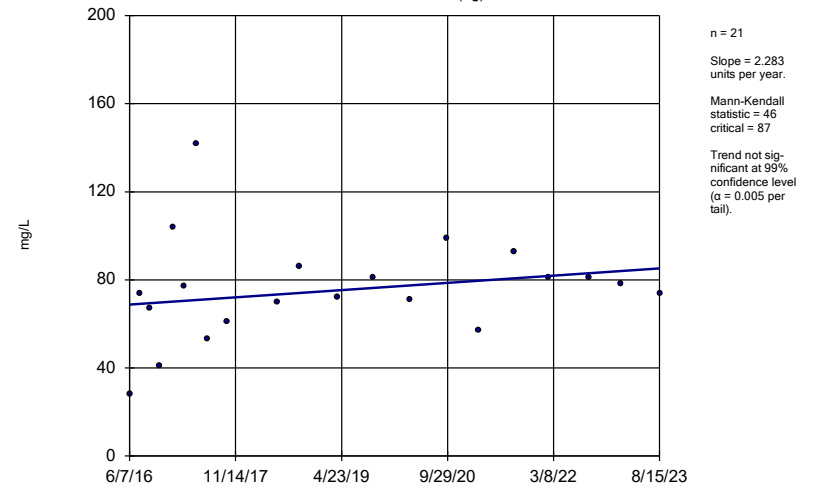
YGWC-45



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

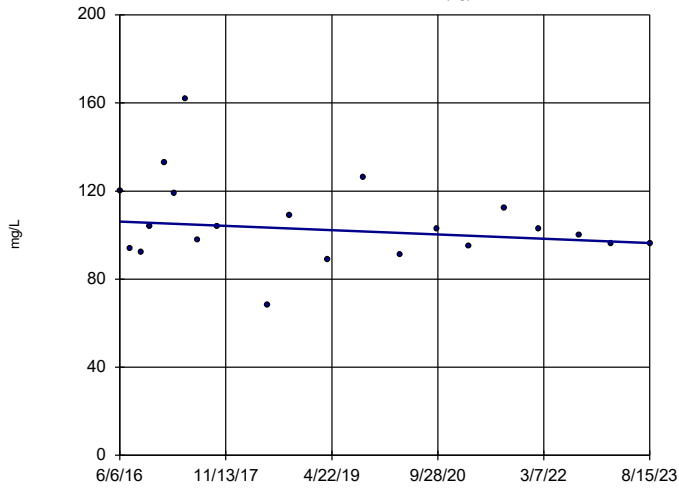
YGWA-17S (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-18I (bg)

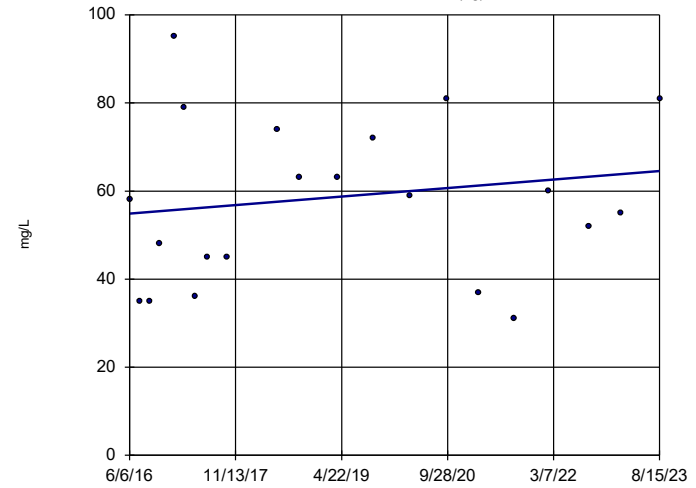


n = 21  
 Slope = -1.363  
 units per year.  
 Mann-Kendall  
 statistic = -33  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-18S (bg)

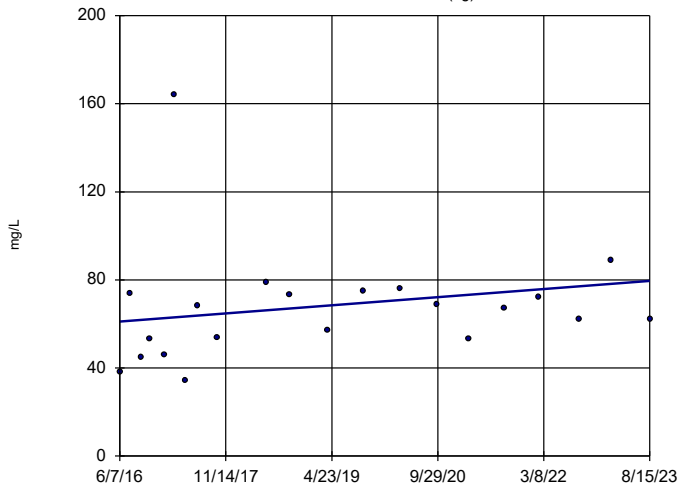


n = 21  
 Slope = 1.344  
 units per year.  
 Mann-Kendall  
 statistic = 26  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-20S (bg)

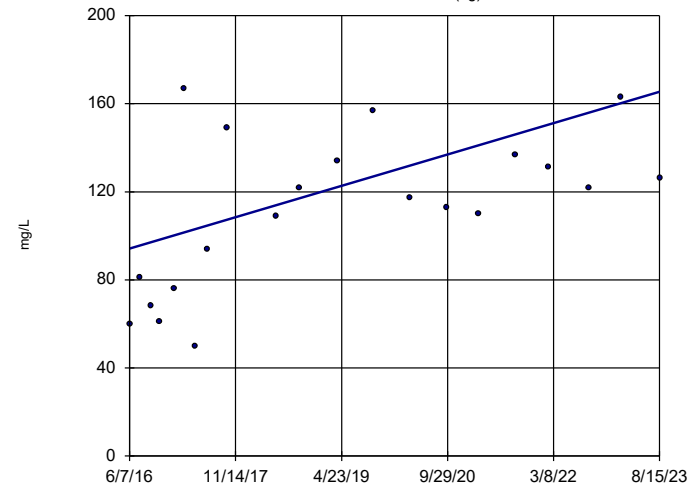


n = 21  
 Slope = 2.575  
 units per year.  
 Mann-Kendall  
 statistic = 48  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-21I (bg)

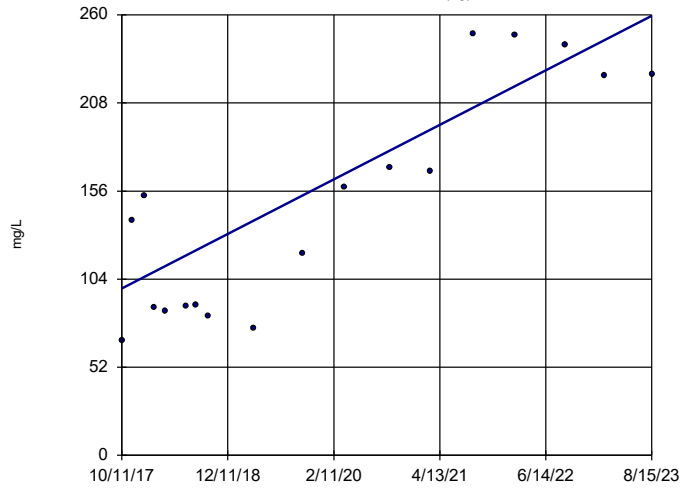


n = 21  
 Slope = 9.895  
 units per year.  
 Mann-Kendall  
 statistic = 91  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

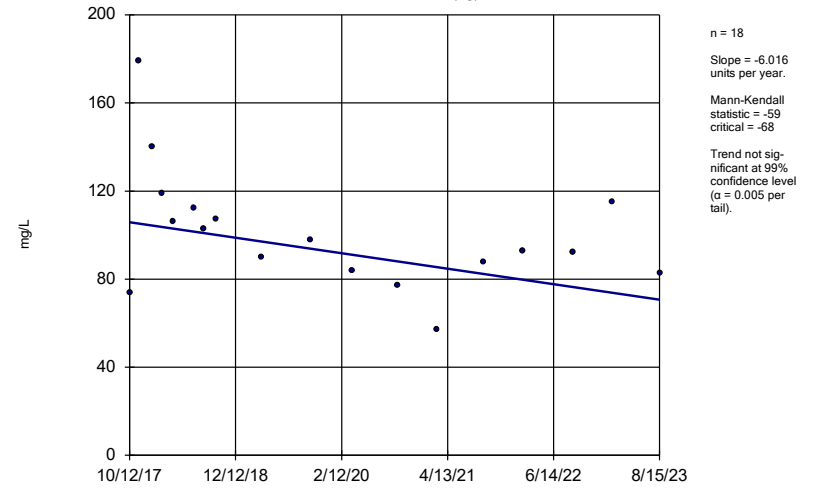
YGWA-39 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

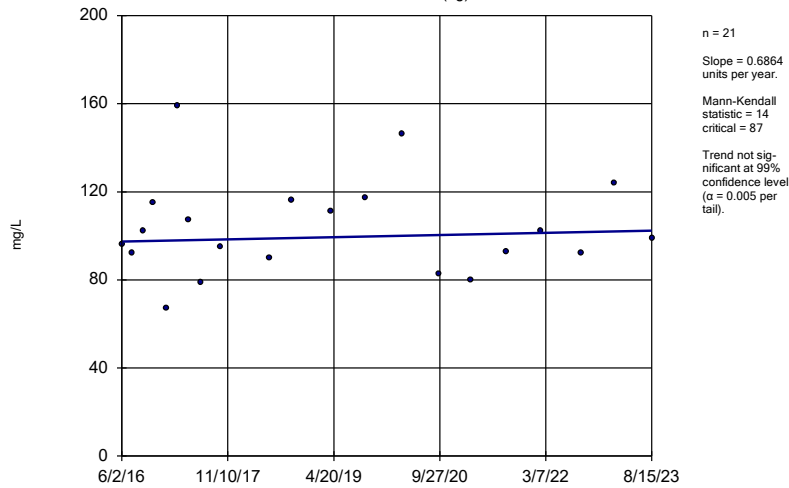
YGWA-40 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

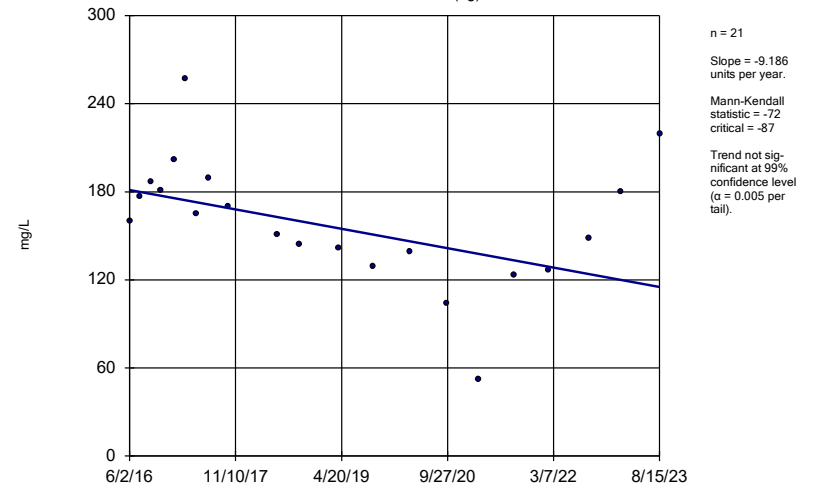
YGWA-41 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-5D (bg)

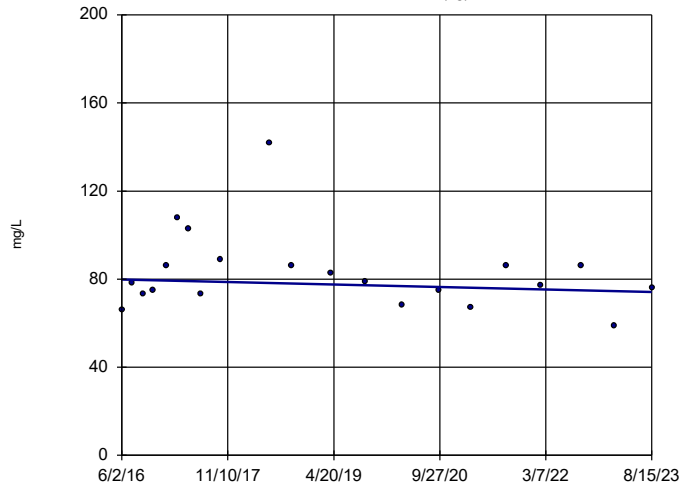


Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1



### Sen's Slope Estimator

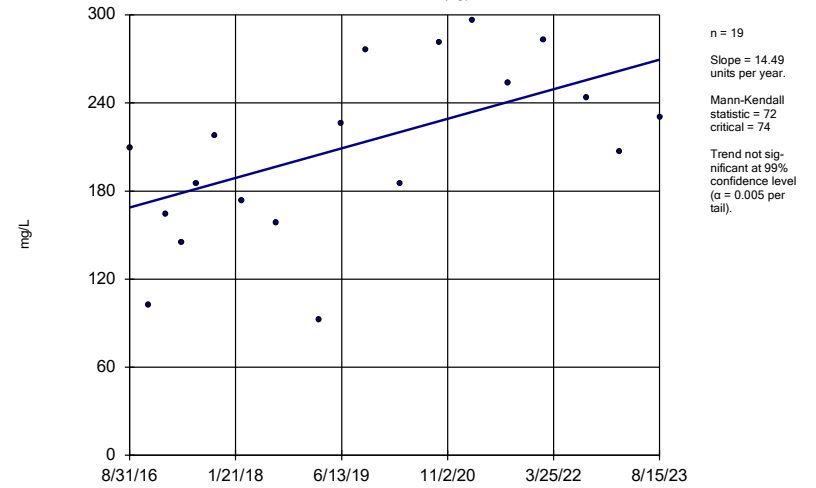
YGWA-5I (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Test  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

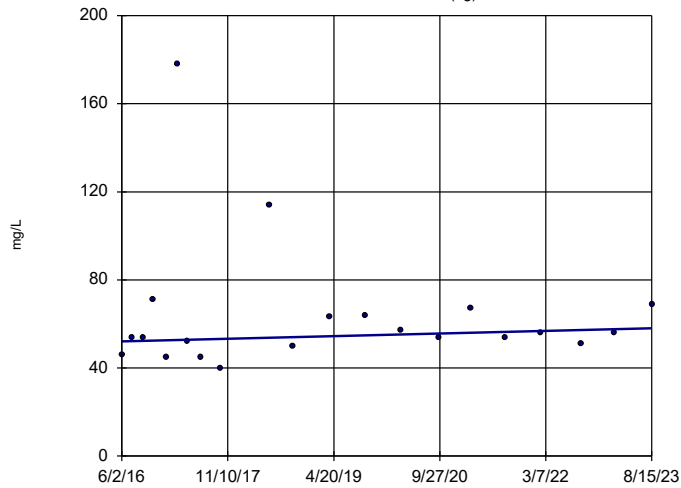
GWA-2 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Test  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

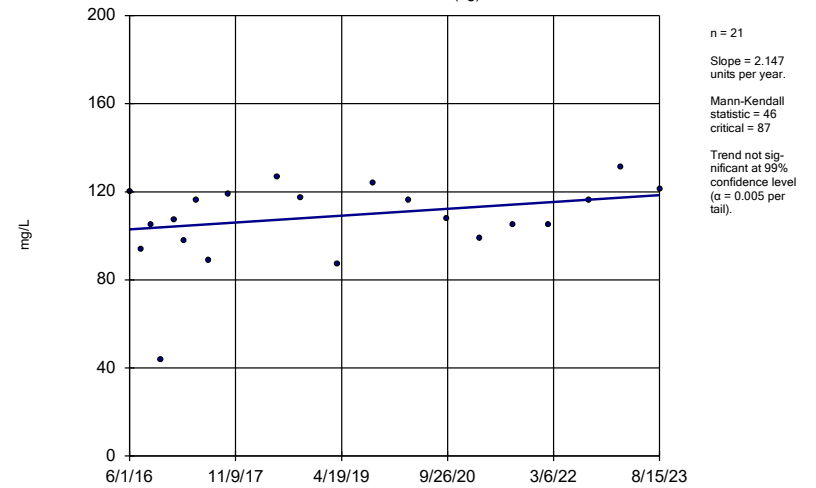
YGWA-14S (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Test  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

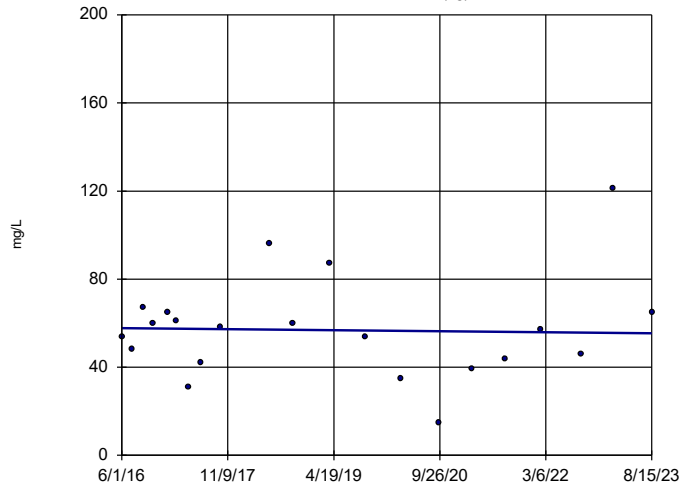
YGWA-1D (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Test  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-11 (bg)

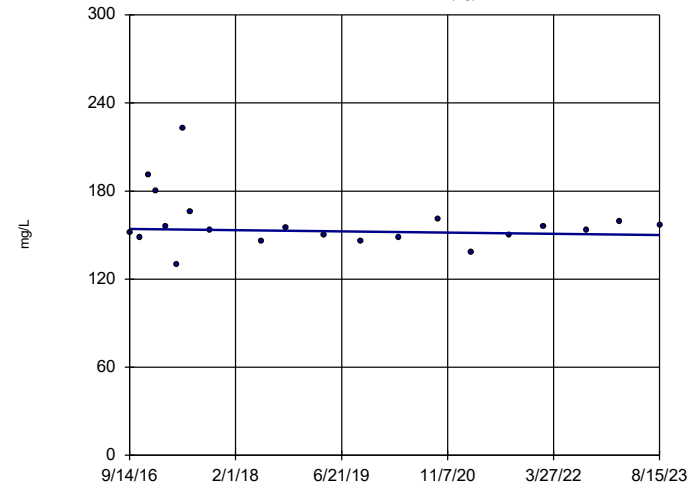


n = 21  
 Slope = -0.3083  
 units per year.  
 Mann-Kendall  
 statistic = -7  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-21 (bg)

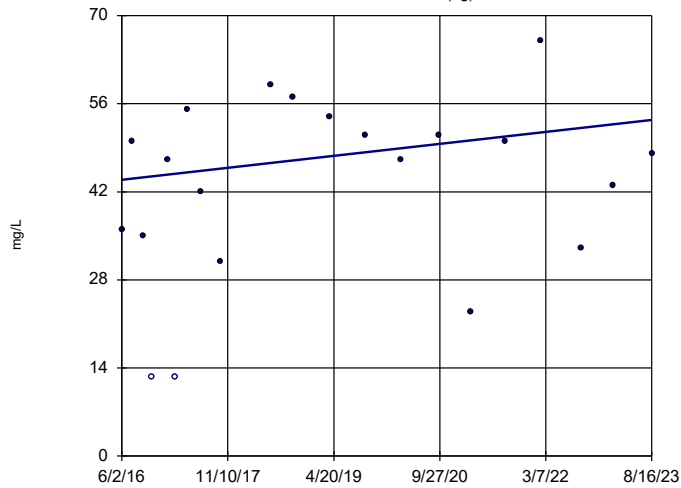


n = 21  
 Slope = -0.5892  
 units per year.  
 Mann-Kendall  
 statistic = -11  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-30I (bg)

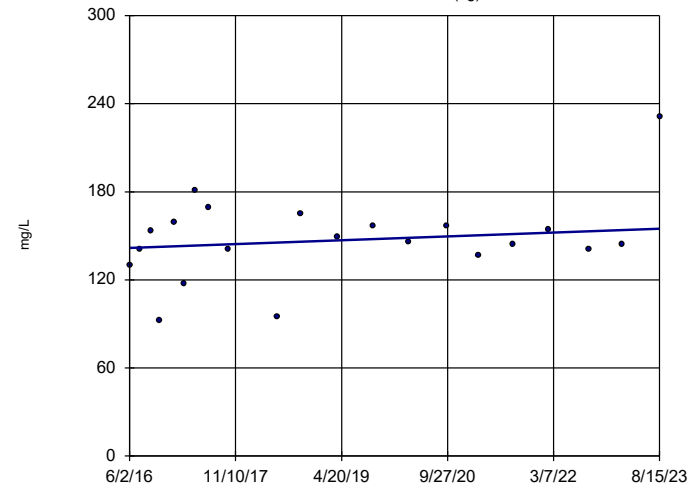


n = 21  
 Slope = 1.322  
 units per year.  
 Mann-Kendall  
 statistic = 26  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-3D (bg)

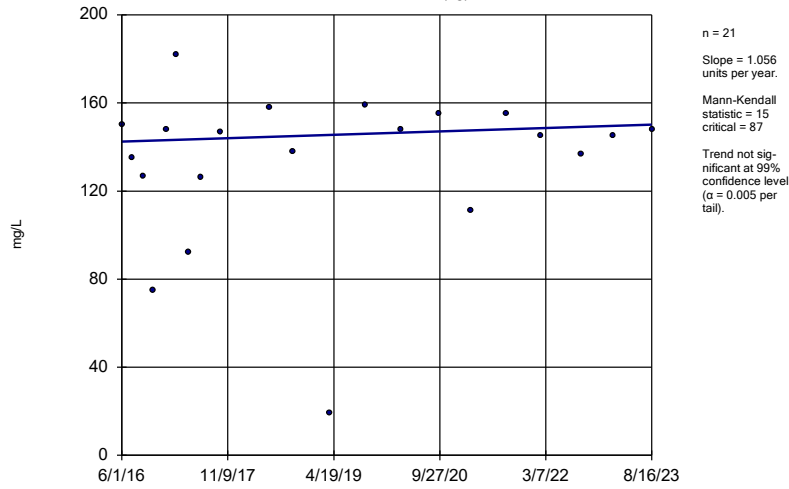


n = 21  
 Slope = 1.819  
 units per year.  
 Mann-Kendall  
 statistic = 27  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

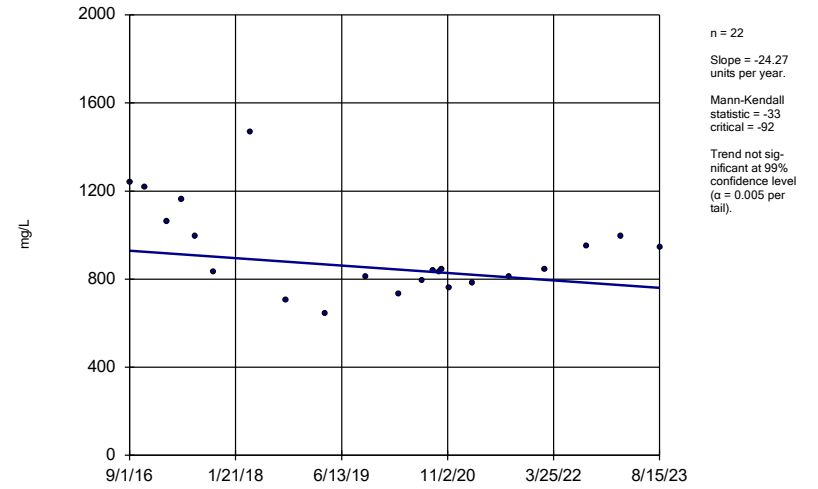
YGWA-3I (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

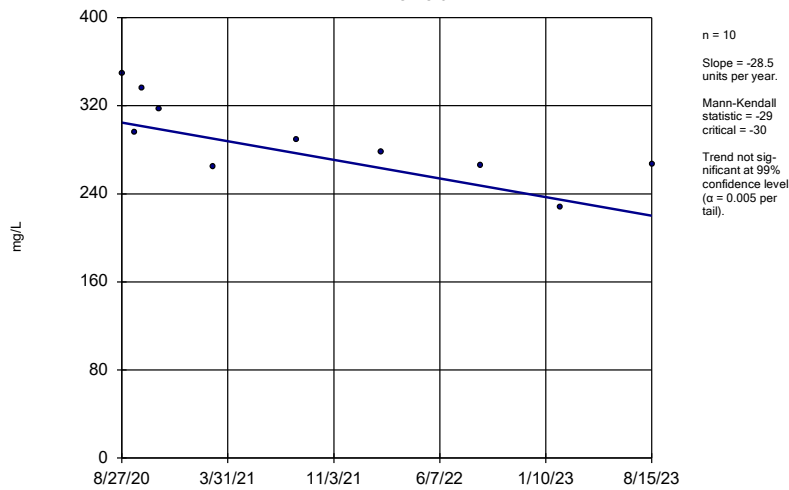
YGWC-46A



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWC-52



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/9/2023 6:15 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

FIGURE F.

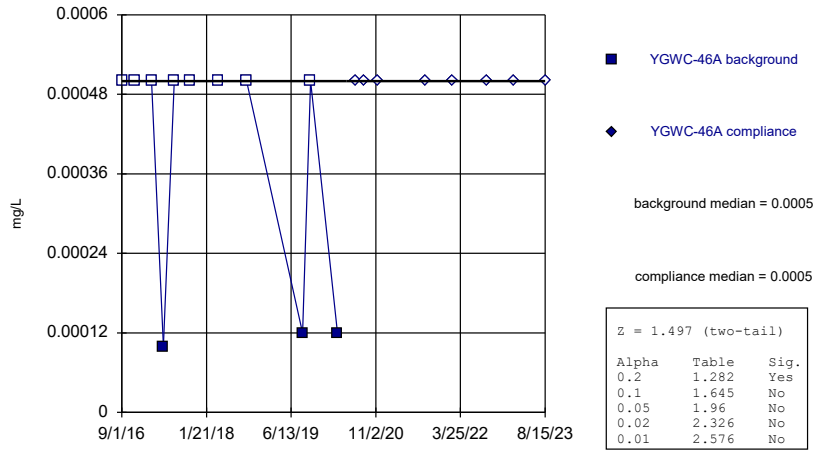
# Welch's t-test/Mann-Whitney - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/9/2023, 6:00 PM

<u>Constituent</u>	<u>Well</u>	<u>Calc.</u>	<u>0.01</u>	<u>Alpha</u>	<u>Sig.</u>	<u>Method</u>
Cadmium (mg/L)	YGWC-46A	1.497	No	0.01	No	Mann-W
Mercury (mg/L)	YGWC-46A	0.825	No	0.01	No	Mann-W
Thallium (mg/L)	YGWC-46A	-1.279	No	0.01	No	Mann-W

### Mann-Whitney (Wilcoxon Rank Sum)

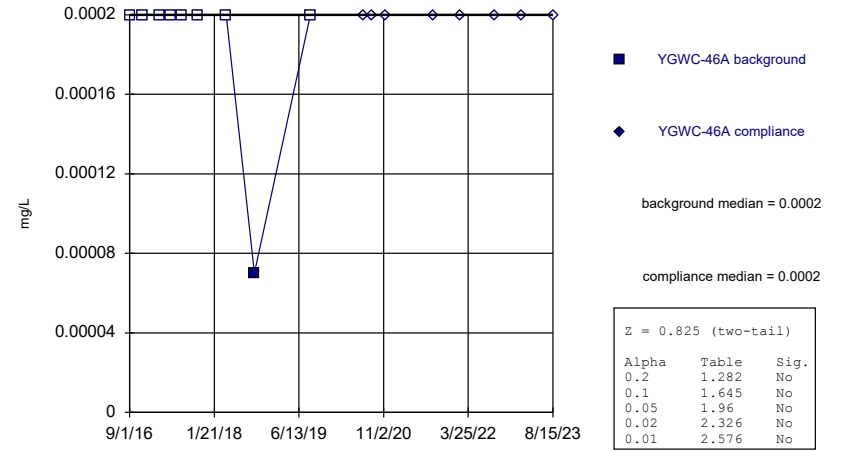
YGWC-46A



Constituent: Cadmium Analysis Run 10/9/2023 5:59 PM View: Mann-Whitney  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Mann-Whitney (Wilcoxon Rank Sum)

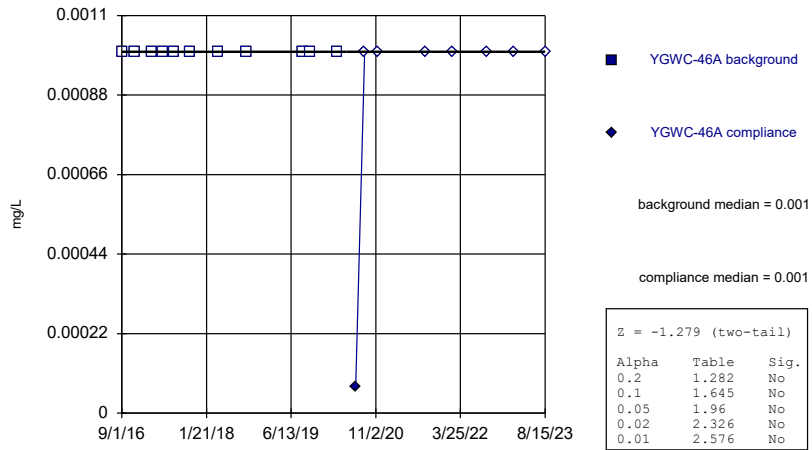
YGWC-46A



Constituent: Mercury Analysis Run 10/9/2023 5:59 PM View: Mann-Whitney  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Mann-Whitney (Wilcoxon Rank Sum)

YGWC-46A



Constituent: Thallium Analysis Run 10/9/2023 5:59 PM View: Mann-Whitney  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Cadmium (mg/L) Analysis Run 10/9/2023 6:00 PM View: Mann-Whitney  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWC-46A
9/1/2016	<0.0005	
11/16/2016	<0.0005	
2/27/2017	<0.0005	
5/8/2017	0.0001 (J)	
7/13/2017	<0.0005	
10/11/2017	<0.0005	
4/4/2018	<0.0005	
9/19/2018	<0.0005	
8/21/2019	0.00012 (J)	
10/9/2019	<0.0005	
3/17/2020	0.00012 (J)	
7/6/2020		<0.0005
8/28/2020		<0.0005
11/12/2020		<0.0005
8/27/2021		<0.0005
2/9/2022		<0.0005
8/31/2022		<0.0005
2/10/2023		<0.0005
8/15/2023		<0.0005

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Mercury (mg/L) Analysis Run 10/9/2023 6:00 PM View: Mann-Whitney

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWC-46A	YGWC-46A
9/1/2016	<0.0002	
11/16/2016	<0.0002	
2/27/2017	<0.0002	
5/8/2017	<0.0002	
7/13/2017	<0.0002	
10/11/2017	<0.0002	
4/4/2018	<0.0002	
9/19/2018	7E-05 (J)	
8/21/2019	<0.0002	
7/6/2020		<0.0002
8/28/2020		<0.0002
11/12/2020		<0.0002
8/27/2021		<0.0002
2/9/2022		<0.0002
8/31/2022		<0.0002
2/10/2023		<0.0002
8/15/2023		<0.0002



# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Thallium (mg/L) Analysis Run 10/9/2023 6:00 PM View: Mann-Whitney

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWC-46A
9/1/2016	<0.001	
11/16/2016	<0.001	
2/27/2017	<0.001	
5/8/2017	<0.001	
7/13/2017	<0.001	
10/11/2017	<0.001	
4/4/2018	<0.001	
9/19/2018	<0.001	
8/21/2019	<0.001	
10/9/2019	<0.001	
3/17/2020	<0.001	
7/6/2020		7.3E-05 (J)
8/28/2020		<0.001
11/12/2020		<0.001
8/27/2021		<0.001
2/9/2022		<0.001
8/31/2022		<0.001
2/10/2023		<0.001
8/15/2023		<0.001

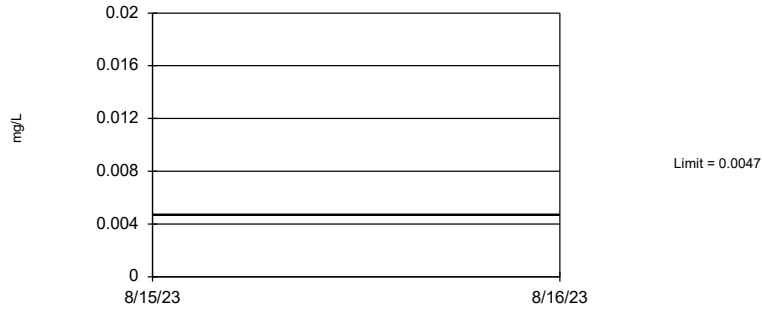
FIGURE G.

# Upper Tolerance Limits - Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/9/2023, 7:07 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform Alpha	Method	
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	410	88.54	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	458	75.76	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.21	n/a	n/a	n/a	458	2.402	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0011	n/a	n/a	n/a	442	79.86	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	442	94.8	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	410	80.73	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	452	69.03	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	437	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.68	n/a	n/a	n/a	457	64.33	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	412	86.65	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	437	26.77	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	366	89.07	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	401	61.1	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	440	92.73	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	376	97.34	n/a	n/a	NaN	NP Inter(NDs)

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 410 background values. 88.54% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Antimony Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

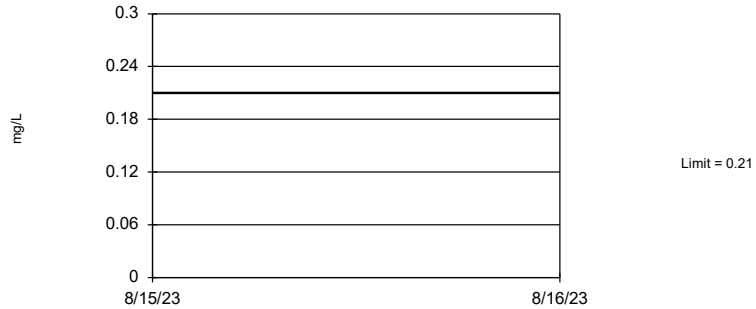
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 458 background values. 75.76% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Arsenic Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

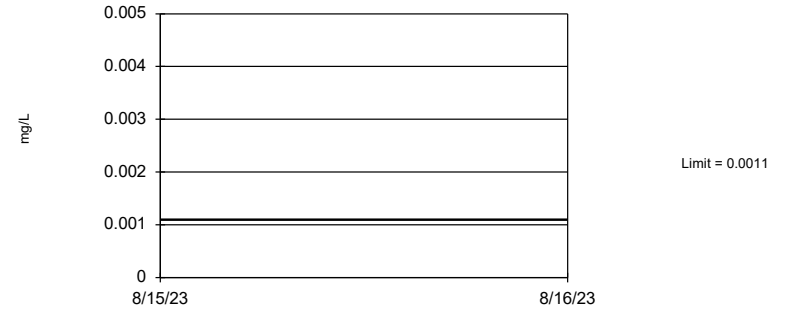
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 458 background values. 2.402% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

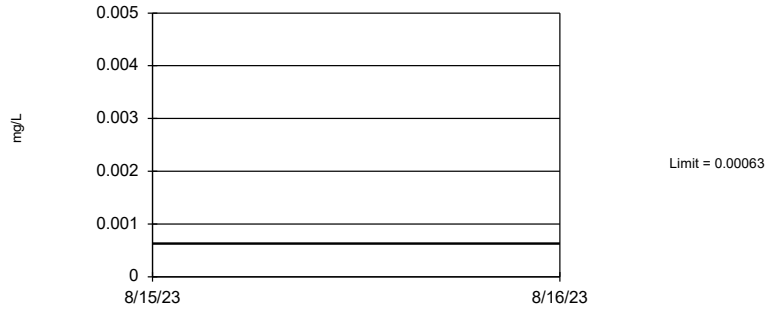
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 442 background values. 79.86% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Beryllium Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

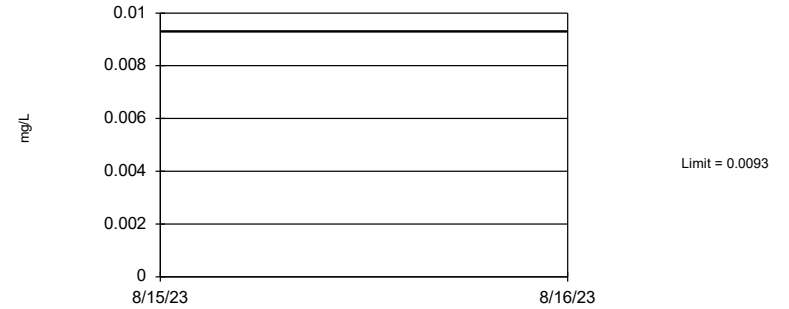
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 442 background values. 94.8% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cadmium Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

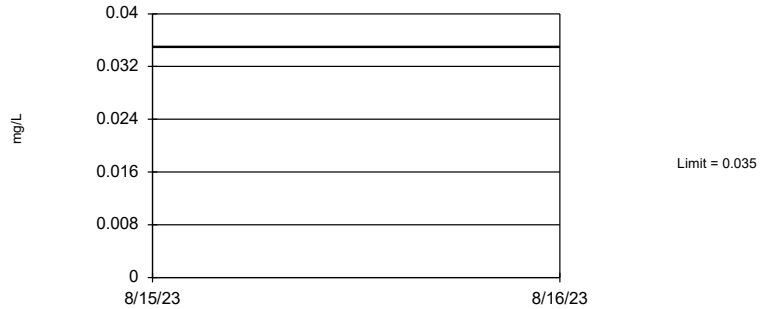
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 410 background values. 80.73% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Chromium Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 452 background values. 69.03% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cobalt Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

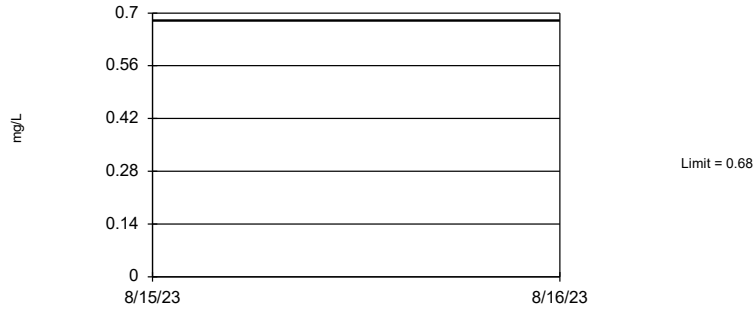
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 437 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Combined Radium 226 + 228 Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

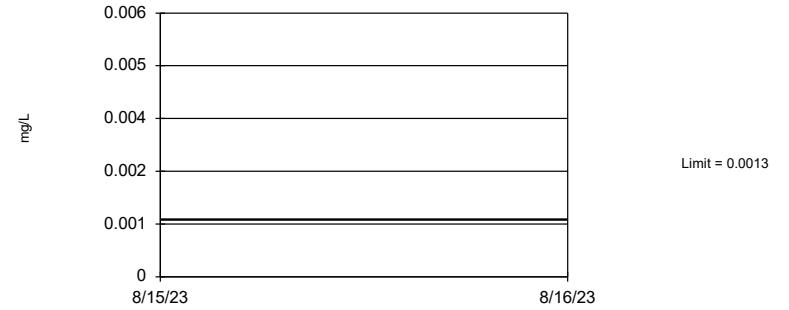
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 457 background values. 64.33% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride, total Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 412 background values. 86.65% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lead Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

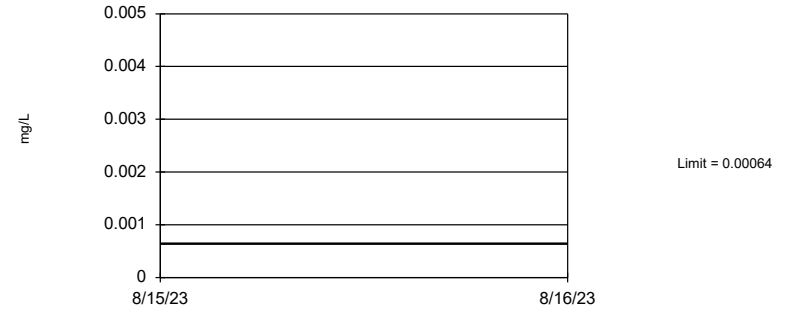
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 437 background values. 26.77% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lithium Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 366 background values. 89.07% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Mercury Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 401 background values. 61.1% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Molybdenum Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 440 background values. 92.73% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Selenium Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 376 background values. 97.34% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Thallium Analysis Run 10/9/2023 7:06 PM View: Appendix IV - UTLs  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

FIGURE H.



<b>YATES ASH POND 1 GWPS</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*\*Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

*\*MCL = Maximum Contaminant Level*

*\*CCR = Coal Combustion Residual*

*\*GWPS = Groundwater Protection Standard*

FIGURE I.

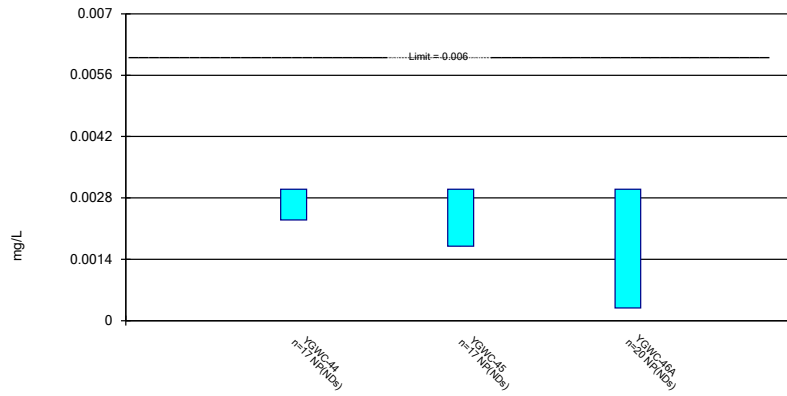
# Appendix IV Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/9/2023, 7:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-44	0.003	0.0023	0.006	No	17	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-45	0.003	0.0017	0.006	No	17	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-46A	0.003	0.00029	0.006	No	20	95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-44	0.005	0.00086	0.01	No	19	73.68	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-45	0.005	0.00078	0.01	No	19	78.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-46A	0.005	0.001	0.01	No	22	40.91	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-44	0.1101	0.09103	2	No	19	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-45	0.06806	0.05568	2	No	19	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-46A	0.04616	0.03984	2	No	11	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-52	0.02018	0.01742	2	No	10	0	None	No	0.01	Param.
Cadmium (mg/L)	YGWC-46A	0.0005	0.00012	0.005	No	19	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-45	0.0061	0.0006	0.1	No	17	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-52	0.005	0.00086	0.1	No	10	50	None	No	0.011	NP (normality)
Cobalt (mg/L)	YGWC-44	0.003381	0.001627	0.035	No	19	5.263	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-45	0.000818	0.0006275	0.035	No	18	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-46A	0.002491	0.0007833	0.035	No	11	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-52	0.001914	0.001048	0.035	No	10	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-44	0.9134	0.2928	6.92	No	19	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-45	1.465	0.9578	6.92	No	19	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-46A	1.728	1.124	6.92	No	22	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-52	0.8689	0.3907	6.92	No	9	0	None	x^5	0.01	Param.
Fluoride, total (mg/L)	YGWC-44	0.12	0.07	4	No	20	75	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	YGWC-45	0.1826	0.07598	4	No	20	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	YGWC-46A	0.1014	0.03761	4	No	23	21.74	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	YGWC-52	0.1	0.063	4	No	10	80	Kaplan-Meier	No	0.011	NP (NDs)
Lead (mg/L)	YGWC-45	0.001	0.0001	0.015	No	17	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-46A	0.001	0.000044	0.015	No	20	95	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-52	0.001	0.000064	0.015	No	10	60	None	No	0.011	NP (NDs)
Lithium (mg/L)	YGWC-44	0.01348	0.01258	0.04	No	19	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-45	0.014	0.012	0.04	No	19	0	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-46A	0.01391	0.01154	0.04	No	11	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-52	0.004556	0.003784	0.04	No	10	0	None	No	0.01	Param.
Mercury (mg/L)	YGWC-44	0.0002	0.00006	0.002	No	15	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-45	0.0002	0.000071	0.002	No	15	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-46A	0.0002	0.00007	0.002	No	17	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-44	0.01	0.0005	0.1	No	19	94.74	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-45	0.0024	0.0011	0.1	No	19	15.79	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-46A	0.003199	0.001891	0.1	No	22	13.64	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-52	0.01	0.01	0.1	No	10	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	YGWC-44	0.001	0.00008	0.002	No	17	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-46A	0.001	0.000073	0.002	No	19	94.74	None	No	0.01	NP (NDs)

### Non-Parametric Confidence Interval

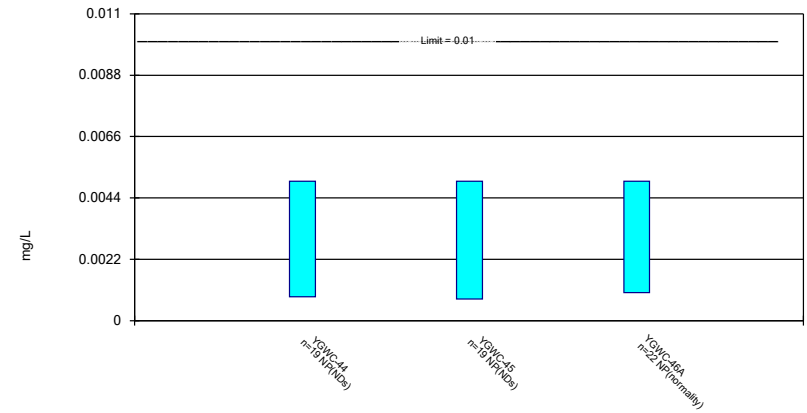
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 10/9/2023 7:13 PM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Non-Parametric Confidence Interval

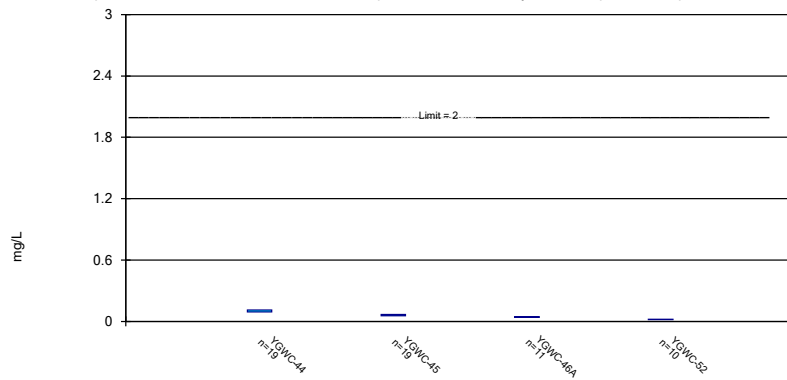
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 10/9/2023 7:13 PM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Parametric Confidence Interval

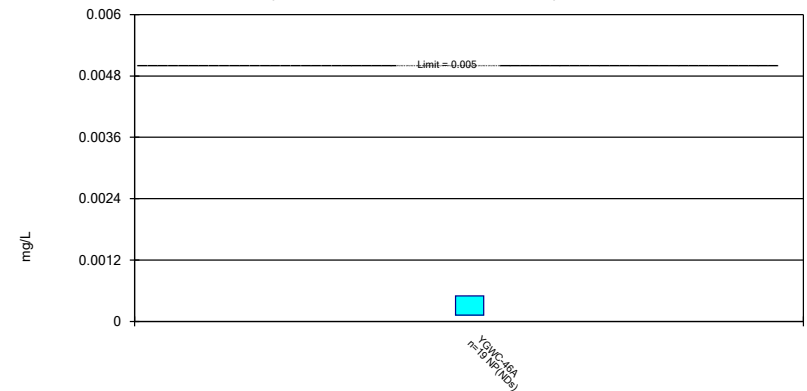
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/9/2023 7:13 PM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Non-Parametric Confidence Interval

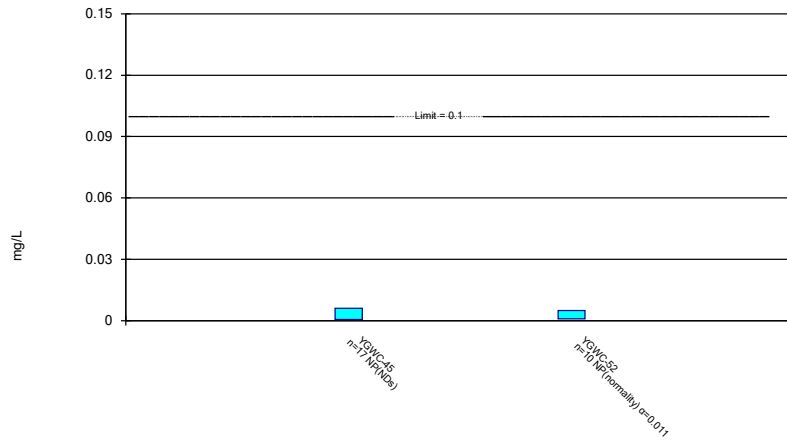
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 10/9/2023 7:13 PM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Non-Parametric Confidence Interval

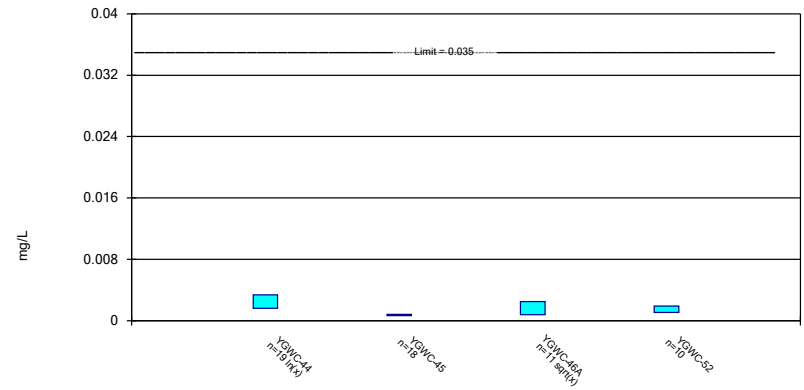
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 10/9/2023 7:13 PM View: Appendix IV - Confidence Intervals  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Parametric Confidence Interval

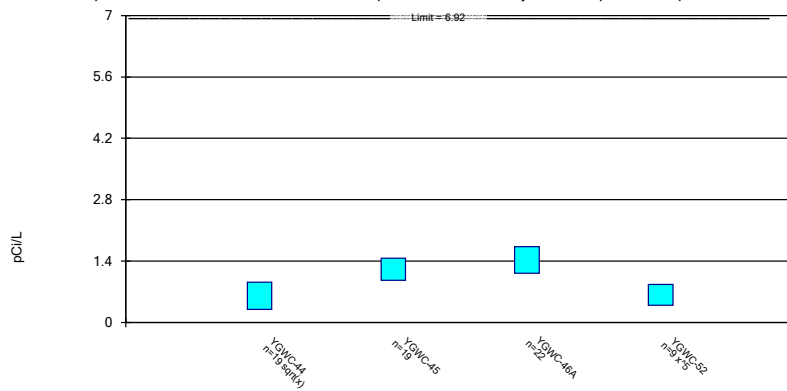
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/9/2023 7:13 PM View: Appendix IV - Confidence Intervals  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Parametric Confidence Interval

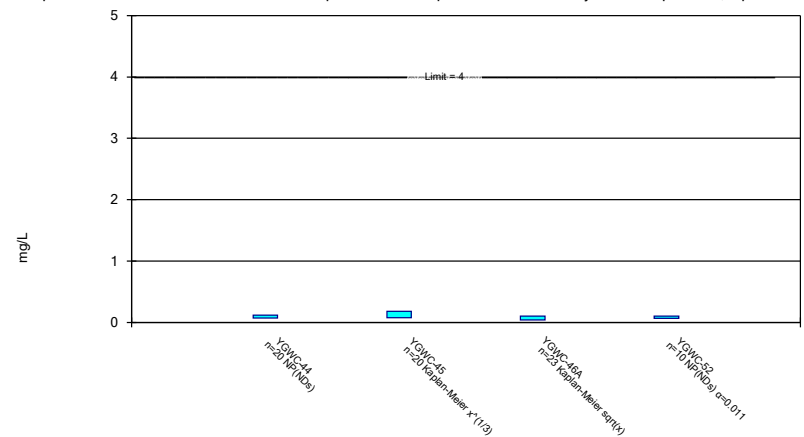
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/9/2023 7:13 PM View: Appendix IV - Confiden  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

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

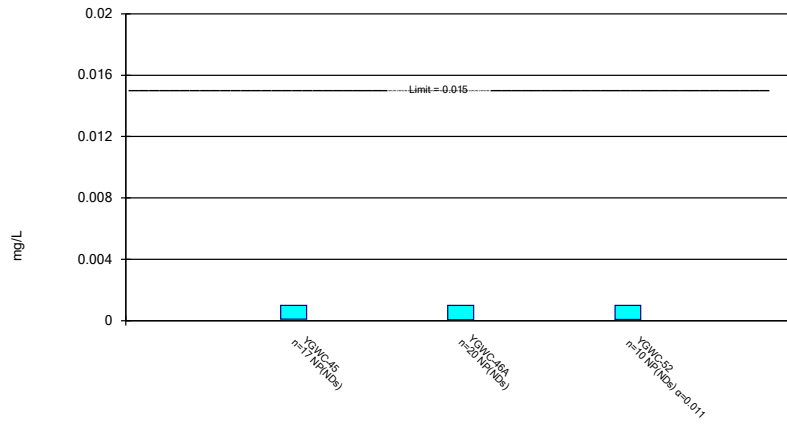
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 10/9/2023 7:13 PM View: Appendix IV - Confidence Intervals  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Non-Parametric Confidence Interval

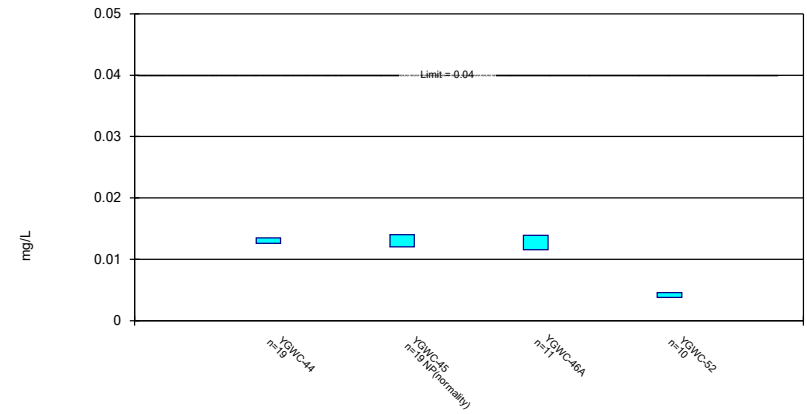
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 10/9/2023 7:13 PM View: Appendix IV - Confidence Intervals  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

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

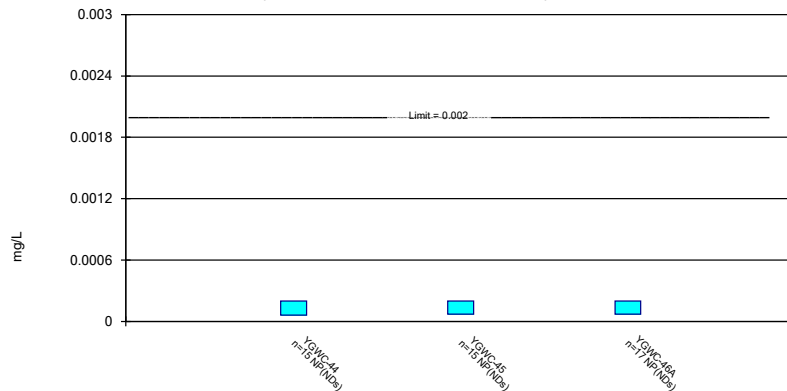
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/9/2023 7:13 PM View: Appendix IV - Confidence Intervals  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Non-Parametric Confidence Interval

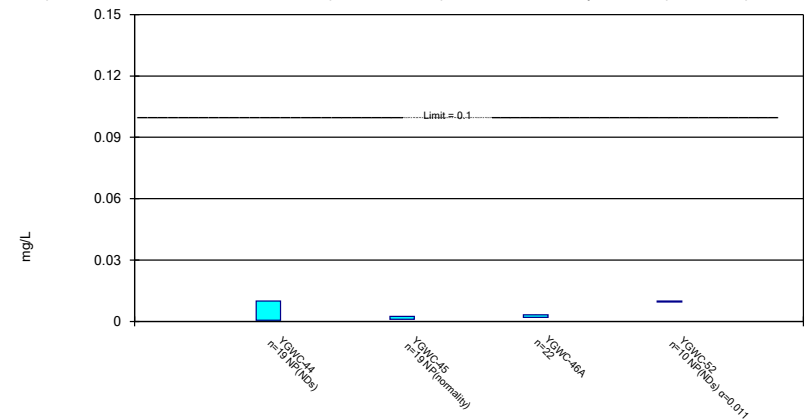
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 10/9/2023 7:13 PM View: Appendix IV - Confidence Intervals  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

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

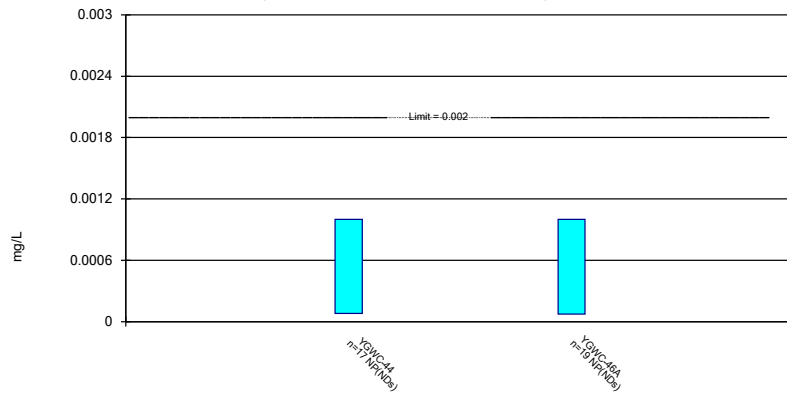
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/9/2023 7:13 PM View: Appendix IV - Confidence Intervals  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Non-Parametric Confidence Interval

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



Constituent: Thallium Analysis Run 10/9/2023 7:13 PM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/9/2023 7:14 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A
8/31/2016	<0.003	<0.003	
9/1/2016			<0.003
11/14/2016		<0.003	
11/15/2016	<0.003		
11/16/2016			<0.003
2/27/2017		<0.003	<0.003
2/28/2017	<0.003		
5/8/2017	<0.003		<0.003
5/9/2017		<0.003	
7/13/2017	<0.003	<0.003	<0.003
10/10/2017	<0.003	<0.003	
10/11/2017			<0.003
4/3/2018		<0.003	
4/4/2018	<0.003		<0.003
9/19/2018	<0.003	<0.003	<0.003
8/20/2019	<0.003	<0.003	
8/21/2019			<0.003
7/6/2020			<0.003
8/27/2020	<0.003		
8/28/2020		0.0017 (J)	0.00029 (J)
9/22/2020	<0.003		
9/23/2020		<0.003	<0.003
10/7/2020			<0.003
11/12/2020			<0.003
3/1/2021	<0.003	<0.003	
3/2/2021			<0.003
8/19/2021	<0.003	<0.003	
8/27/2021			<0.003
2/9/2022	<0.003	<0.003	<0.003
8/31/2022	<0.003	<0.003	<0.003
2/8/2023	<0.003		
2/9/2023		<0.003	
2/10/2023			<0.003
8/15/2023	0.0023 (J)	<0.003	<0.003
Mean	0.002959	0.002924	0.002865
Std. Dev.	0.0001698	0.0003153	0.000606
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.0023	0.0017	0.00029



# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/9/2023 7:14 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A
8/31/2016	<0.005	<0.005	
9/1/2016			<0.005
11/14/2016		<0.005	
11/15/2016	<0.005		
11/16/2016			<0.005
2/27/2017		<0.005	<0.005
2/28/2017	0.0005 (J)		
5/8/2017	0.0006 (J)		0.0007 (J)
5/9/2017		<0.005	
7/13/2017	<0.005	<0.005	0.0011 (J)
10/10/2017	0.0007 (J)	0.0006 (J)	
10/11/2017			0.0011 (J)
4/3/2018		0.00061 (J)	
4/4/2018	<0.005		0.00087 (J)
9/19/2018	0.00086 (J)	0.00072 (J)	0.0012 (J)
8/20/2019	0.00097 (J)	0.00078 (J)	
8/21/2019			0.00074 (J)
10/8/2019	<0.005		
10/9/2019		<0.005	<0.005
3/17/2020	<0.005	<0.005	<0.005
7/6/2020			0.00079 (J)
8/27/2020	<0.005		
8/28/2020		<0.005	0.0015 (J)
9/22/2020	<0.005		
9/23/2020		<0.005	0.00091 (J)
10/7/2020			0.001 (J)
11/12/2020			0.0014 (J)
3/1/2021	<0.005	<0.005	
3/2/2021			0.0016 (J)
8/19/2021	<0.005	<0.005	
8/27/2021			0.0022 (J)
2/9/2022	<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005
2/8/2023	<0.005		
2/9/2023		<0.005	
2/10/2023			<0.005
8/15/2023	<0.005	<0.005	<0.005
Mean	0.003875	0.00409	0.002732
Std. Dev.	0.001936	0.001811	0.001958
Upper Lim.	0.005	0.005	0.005
Lower Lim.	0.00086	0.00078	0.001

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/9/2023 7:14 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	0.126	0.0754		
9/1/2016			0.0414	
11/14/2016		0.0701		
11/15/2016	0.115			
11/16/2016			0.0365	
2/27/2017		0.0834	0.0326	
2/28/2017	0.121			
5/8/2017	0.125		0.0332	
5/9/2017		0.0779		
7/13/2017	0.106	0.0719	0.0365	
10/10/2017	0.112	0.0708		
10/11/2017			0.0288	
4/3/2018		0.068		
4/4/2018	0.12		0.025	
9/19/2018	0.11	0.064	0.03	
8/20/2019	0.1	0.057		
8/21/2019			0.023	
10/8/2019	0.098			
10/9/2019		0.058	0.024	
3/17/2020	0.099	0.061	0.022	
7/6/2020			0.048	
8/27/2020	0.086			0.021
8/28/2020		0.053	0.05	
9/22/2020	0.096			0.021
9/23/2020		0.052	0.045	
10/7/2020			0.042	0.019
11/12/2020			0.042	0.019
3/1/2021	0.087	0.055		0.019
3/2/2021			0.044	
8/19/2021	0.089	0.055		
8/20/2021				0.019
8/27/2021			0.043	
2/9/2022	0.083	0.053	0.042	0.018
8/31/2022	0.073	0.052	0.036	0.017
2/8/2023	0.081			
2/9/2023		0.049		
2/10/2023			0.041	0.016
8/15/2023	0.084	0.049	0.04	0.019
Mean	0.1006	0.06187	0.043	0.0188
Std. Dev.	0.0163	0.01057	0.003795	0.001549
Upper Lim.	0.1101	0.06806	0.04616	0.02018
Lower Lim.	0.09103	0.05568	0.03984	0.01742

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/9/2023 7:14 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWC-46A
9/1/2016	<0.0005
11/16/2016	<0.0005
2/27/2017	<0.0005
5/8/2017	0.0001 (J)
7/13/2017	<0.0005
10/11/2017	<0.0005
4/4/2018	<0.0005
9/19/2018	<0.0005
8/21/2019	0.00012 (J)
10/9/2019	<0.0005
3/17/2020	0.00012 (J)
7/6/2020	<0.0005
8/28/2020	<0.0005
11/12/2020	<0.0005
8/27/2021	<0.0005
2/9/2022	<0.0005
8/31/2022	<0.0005
2/10/2023	<0.0005
8/15/2023	<0.0005
Mean	0.0004389
Std. Dev.	0.0001449
Upper Lim.	0.0005
Lower Lim.	0.00012

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/9/2023 7:14 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-45	YGWC-52
8/31/2016	<0.005	
11/14/2016	0.0061 (J)	
2/27/2017	<0.005	
5/9/2017	<0.005	
7/13/2017	0.0006 (J)	
10/10/2017	<0.005	
4/3/2018	<0.005	
9/19/2018	<0.005	
8/20/2019	<0.005	
8/27/2020		<0.005
8/28/2020	<0.005	
9/22/2020		0.00073 (J)
9/23/2020	0.00058 (J)	
10/7/2020		0.00086 (J)
11/12/2020		<0.005
3/1/2021	<0.005	0.00094 (J)
8/19/2021	<0.005	
8/20/2021		<0.005
2/9/2022	<0.005	0.0012 (J)
8/31/2022	<0.005	<0.005
2/9/2023	<0.005	
2/10/2023		0.0021 (J)
8/15/2023	<0.005	<0.005
Mean	0.004546	0.003083
Std. Dev.	0.001512	0.002054
Upper Lim.	0.0061	0.005
Lower Lim.	0.0006	0.00086

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/9/2023 7:14 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	0.0119	0.0009 (J)		
9/1/2016			0.0171	
11/14/2016		0.0009 (J)		
11/15/2016	0.0033 (J)			
11/16/2016			0.0145	
2/27/2017		0.001 (J)	0.0161	
2/28/2017	0.0017 (J)			
5/8/2017	0.0018 (J)		0.0367	
5/9/2017		0.0008 (J)		
7/13/2017	0.0022 (J)	0.0009 (J)	0.0265	
10/10/2017	0.0017 (J)	0.0008 (J)		
10/11/2017			0.0556	
4/3/2018		<0.01 (O)		
4/4/2018	<0.005		0.025	
9/19/2018	0.0025 (J)	0.00081 (J)	0.042	
8/20/2019	0.002 (J)	0.00071 (J)		
8/21/2019			0.027	
10/8/2019	0.0017 (J)			
10/9/2019		0.0007 (J)	0.024	
3/17/2020	0.004 (J)	0.00081 (J)	0.022	
7/6/2020			0.0041 (J)	
8/27/2020	0.003 (J)			0.0022 (J)
8/28/2020		0.00055 (J)	0.0038 (J)	
9/22/2020	0.0065			0.0019 (J)
9/23/2020		0.00053 (J)	0.0015 (J)	
10/7/2020			0.0014 (J)	0.0019 (J)
11/12/2020			0.001 (J)	0.0015 (J)
3/1/2021	0.0033 (J)	0.00062 (J)		0.0013 (J)
3/2/2021			0.00096 (J)	
8/19/2021	0.0014 (J)	0.00048 (J)		
8/20/2021				0.0013 (J)
8/27/2021			0.00056 (J)	
2/9/2022	0.0027 (J)	0.00051 (J)	0.0006 (J)	0.0015 (J)
8/31/2022	0.00099 (J)	0.00069 (J)	0.0017 (J)	0.00096 (J)
2/8/2023	0.0014 (J)			
2/9/2023		0.00077 (J)		
2/10/2023			0.0016 (J)	0.00055 (J)
8/15/2023	0.00084 (J)	0.00053 (J)	0.0012 (J)	0.0017 (J)
Mean	0.002917	0.0007228	0.001675	0.001481
Std. Dev.	0.002528	0.0001574	0.001187	0.0004854
Upper Lim.	0.003381	0.000818	0.002491	0.001914
Lower Lim.	0.001627	0.0006275	0.0007833	0.001048

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/9/2023 7:14 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	2.15	1.65		
9/1/2016			2.28	
11/14/2016		0.981 (U)		
11/15/2016	0.676 (U)			
11/16/2016			0.639 (U)	
11/28/2016			0.996	
2/27/2017		0.528 (U)	0.617 (U)	
2/28/2017	0.241 (U)			
5/8/2017	0.508 (U)		0.949	
5/9/2017		1.4		
7/13/2017	0.77 (U)	0.611 (U)	1.41	
10/10/2017	1.43	1.47		
10/11/2017			0.856 (U)	
4/3/2018		1.53		
4/4/2018	0.325 (U)		0.974	
9/19/2018	0.386 (U)	0.839 (U)	1.15 (U)	
8/20/2019	1.71	2.23		
8/21/2019			1.31	
10/8/2019	0.769 (U)			
10/9/2019		1.61	0.892 (U)	
3/17/2020	1.37	1.44	1.74	
7/6/2020			2.27	
8/27/2020	0.0859 (U)			0.852 (U)
8/28/2020		0.983 (U)	2.34	
9/22/2020	0.327 (U)			0.268 (U)
9/23/2020		0.746 (U)	0.575 (U)	
10/7/2020			1.81	0.819 (U)
3/1/2021	0.0694 (U)	1.28		0.846 (U)
3/2/2021			1.64	
8/19/2021	0.261 (U)	1.38		
8/20/2021				0.496 (U)
8/27/2021			1.83	
2/9/2022	0.332 (U)	1.11	1.74	0.926
8/31/2022	0.145 (U)	0.598 (U)	1.51	0.322 (U)
2/8/2023	0.193 (U)			
2/9/2023		1.29		
2/10/2023			1.92	0.786 (U)
8/15/2023	1.15	1.34	1.92	0.319 (U)
Mean	0.6789	1.211	1.426	0.626
Std. Dev.	0.6056	0.433	0.5623	0.2702
Upper Lim.	0.9134	1.465	1.728	0.8689
Lower Lim.	0.2928	0.9578	1.124	0.3907

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 10/9/2023 7:14 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	<0.1	0.11 (J)		
9/1/2016			0.08 (J)	
11/14/2016		0.71		
11/15/2016	0.12 (J)			
11/16/2016			0.04 (J)	
2/27/2017		0.22 (J)	0.05 (J)	
2/28/2017	0.07 (J)			
5/8/2017	0.04 (J)		0.004 (J)	
5/9/2017		0.2 (J)		
7/13/2017	<0.1	0.11 (J)	0.35	
10/10/2017	<0.1	0.39		
10/11/2017			<0.3	
4/3/2018		<0.3		
4/4/2018	<0.1		<0.3	
9/19/2018	<0.1	<0.3	<0.3	
3/27/2019	<0.1	0.18 (J)	0.12 (J)	
8/20/2019	<0.1	<0.3		
8/21/2019			<0.3	
10/8/2019	<0.1			
10/9/2019		<0.3	0.12 (J)	
3/17/2020	<0.1	0.076 (J)	<0.3	
7/6/2020			0.12	
8/27/2020	<0.1			<0.1
8/28/2020		0.07 (J)	0.12	
9/22/2020	<0.1			<0.1
9/23/2020		0.082 (J)	0.12	
10/7/2020			0.13	<0.1
11/12/2020			0.084 (J)	<0.1
3/1/2021	<0.1	0.073 (J)		<0.1
3/2/2021			0.12	
8/19/2021	<0.1	0.075 (J)		
8/20/2021				<0.1
8/27/2021			0.13	
2/9/2022	<0.1	0.063 (J)	0.12	<0.1
8/31/2022	0.055 (J)	0.1	0.12	0.059 (J)
2/8/2023	0.062 (J)			
2/9/2023		0.11		
2/10/2023			0.17	0.063 (J)
8/15/2023	<0.1	0.07 (J)	0.12	<0.1
Mean	0.09235	0.192	0.1573	0.0922
Std. Dev.	0.01946	0.1595	0.09845	0.01647
Upper Lim.	0.12	0.1826	0.1014	0.1
Lower Lim.	0.07	0.07598	0.03761	0.063

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/9/2023 7:14 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	<0.001		
9/1/2016		<0.001	
11/14/2016	<0.001		
11/16/2016		<0.001	
2/27/2017	<0.001	<0.001	
5/8/2017		<0.001	
5/9/2017	0.0001 (J)		
7/13/2017	<0.001	<0.001	
10/10/2017	<0.001		
10/11/2017		<0.001	
4/3/2018	<0.001		
4/4/2018		<0.001	
9/19/2018	<0.001	<0.001	
8/20/2019	<0.001		
8/21/2019		<0.001	
7/6/2020		<0.001	
8/27/2020			9.2E-05 (J)
8/28/2020	<0.001	<0.001	
9/22/2020			6E-05 (J)
9/23/2020	<0.001	<0.001	
10/7/2020		<0.001	<0.001
11/12/2020		4.4E-05 (J)	6.4E-05 (J)
3/1/2021	<0.001		8.7E-05 (J)
3/2/2021		<0.001	
8/19/2021	<0.001		
8/20/2021			<0.001
8/27/2021		<0.001	
2/9/2022	<0.001	<0.001	<0.001
8/31/2022	<0.001	<0.001	<0.001
2/9/2023	<0.001		
2/10/2023		<0.001	<0.001
8/15/2023	<0.001	<0.001	<0.001
Mean	0.0009471	0.0009522	0.0006303
Std. Dev.	0.0002183	0.0002138	0.0004774
Upper Lim.	0.001	0.001	0.001
Lower Lim.	0.0001	4.4E-05	6.4E-05



# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/9/2023 7:14 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	0.0115 (J)	0.0147 (J)		
9/1/2016			0.0077 (J)	
11/14/2016		0.0175 (J)		
11/15/2016	0.0148 (J)			
11/16/2016			0.0075 (J)	
2/27/2017		0.0135 (J)	0.0084 (J)	
2/28/2017	0.0124 (J)			
5/8/2017	0.0132 (J)		0.0087 (J)	
5/9/2017		0.0136 (J)		
7/13/2017	0.0124 (J)	0.0129 (J)	0.0104 (J)	
10/10/2017	0.0123 (J)	0.015 (J)		
10/11/2017			0.0099 (J)	
4/3/2018		0.014 (J)		
4/4/2018	0.014 (J)		0.012 (J)	
9/19/2018	0.013 (J)	0.012 (J)	0.011 (J)	
8/20/2019	0.013 (J)	0.012 (J)		
8/21/2019			0.0076 (J)	
10/8/2019	0.012 (J)			
10/9/2019		0.012 (J)	0.0078 (J)	
3/17/2020	0.013 (J)	0.014 (J)	0.0071 (J)	
7/6/2020			0.011 (J)	
8/27/2020	0.013 (J)			0.0048 (J)
8/28/2020		0.012 (J)	0.012 (J)	
9/22/2020	0.013 (J)			0.0046 (J)
9/23/2020		0.012 (J)	0.013 (J)	
10/7/2020			0.011 (J)	0.0041 (J)
11/12/2020			0.014 (J)	0.0044 (J)
3/1/2021	0.013 (J)	0.012 (J)		0.0043 (J)
3/2/2021			0.013 (J)	
8/19/2021	0.013 (J)	0.012 (J)		
8/20/2021				0.0043 (J)
8/27/2021			0.014 (J)	
2/9/2022	0.014 (J)	0.012 (J)	0.014 (J)	0.0042 (J)
8/31/2022	0.013 (J)	0.012 (J)	0.015 (J)	0.0037 (J)
2/8/2023	0.014 (J)			
2/9/2023		0.01 (J)		
2/10/2023			0.011 (J)	0.0033 (J)
8/15/2023	0.013 (J)	0.012 (J)	0.012 (J)	0.004 (J)
Mean	0.01303	0.01291	0.01273	0.00417
Std. Dev.	0.0007718	0.001643	0.001421	0.0004322
Upper Lim.	0.01348	0.014	0.01391	0.004556
Lower Lim.	0.01258	0.012	0.01154	0.003784

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/9/2023 7:14 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A
8/31/2016	<0.0002	<0.0002	
9/1/2016			<0.0002
11/14/2016		<0.0002	
11/15/2016	<0.0002		
11/16/2016			<0.0002
2/27/2017		<0.0002	<0.0002
2/28/2017	<0.0002		
5/8/2017	<0.0002		<0.0002
5/9/2017		<0.0002	
7/13/2017	<0.0002	<0.0002	<0.0002
10/10/2017	<0.0002	<0.0002	
10/11/2017			<0.0002
4/3/2018		<0.0002	
4/4/2018	<0.0002		<0.0002
9/19/2018	6E-05 (J)	7.1E-05 (J)	7E-05 (J)
8/20/2019	<0.0002	<0.0002	
8/21/2019			<0.0002
7/6/2020			<0.0002
8/27/2020	<0.0002		
8/28/2020		<0.0002	<0.0002
11/12/2020			<0.0002
8/19/2021	<0.0002	<0.0002	
8/27/2021			<0.0002
2/9/2022	<0.0002	<0.0002	<0.0002
8/31/2022	<0.0002	<0.0002	<0.0002
2/8/2023	<0.0002		
2/9/2023		<0.0002	
2/10/2023			<0.0002
8/15/2023	<0.0002	<0.0002	<0.0002
Mean	0.0001907	0.0001914	0.0001924
Std. Dev.	3.615E-05	3.331E-05	3.153E-05
Upper Lim.	0.0002	0.0002	0.0002
Lower Lim.	6E-05	7.1E-05	7E-05

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/9/2023 7:14 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	<0.01	0.0024 (J)		
9/1/2016			<0.01	
11/14/2016		<0.01		
11/15/2016	<0.01			
11/16/2016			<0.01	
2/27/2017		0.0018 (J)	<0.01	
2/28/2017	0.0005 (J)			
5/8/2017	<0.01		0.0008 (J)	
5/9/2017		0.0015 (J)		
7/13/2017	<0.01	0.0015 (J)	0.0015 (J)	
10/10/2017	<0.01	0.0015 (J)		
10/11/2017			0.002 (J)	
4/3/2018		<0.01		
4/4/2018	<0.01		0.0021 (J)	
9/19/2018	<0.01	<0.01	0.0039 (J)	
8/20/2019	<0.01	0.0011 (J)		
8/21/2019			0.0012 (J)	
10/8/2019	<0.01			
10/9/2019		0.0012 (J)	0.0013 (J)	
3/17/2020	<0.01	0.0016 (J)	0.0015 (J)	
7/6/2020			0.0026 (J)	
8/27/2020	<0.01			<0.01
8/28/2020		0.0013 (J)	0.003 (J)	
9/22/2020	<0.01			<0.01
9/23/2020		0.0011 (J)	0.0025 (J)	
10/7/2020			0.0024 (J)	<0.01
11/12/2020			0.0019 (J)	<0.01
3/1/2021	<0.01	0.0012 (J)		<0.01
3/2/2021			0.0023 (J)	
8/19/2021	<0.01	0.0012 (J)		
8/20/2021				<0.01
8/27/2021			0.0022 (J)	
2/9/2022	<0.01	0.0012 (J)	0.0021 (J)	<0.01
8/31/2022	<0.01	0.0011 (J)	0.0017 (J)	<0.01
2/8/2023	<0.01			
2/9/2023		0.00097 (J)		
2/10/2023			0.0029 (J)	0.00083 (J)
8/15/2023	<0.01	0.0011 (J)	0.0031 (J)	<0.01
Mean	0.0095	0.002725	0.002545	0.009083
Std. Dev.	0.002179	0.003253	0.001218	0.0029
Upper Lim.	0.01	0.0024	0.003199	0.01
Lower Lim.	0.0005	0.0011	0.001891	0.01

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/9/2023 7:14 PM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-46A
8/31/2016	<0.001	
9/1/2016		<0.001
11/15/2016	<0.001	
11/16/2016		<0.001
2/27/2017		<0.001
2/28/2017	<0.001	
5/8/2017	<0.001	<0.001
7/13/2017	<0.001	<0.001
10/10/2017	<0.001	
10/11/2017		<0.001
4/4/2018	<0.001	<0.001
9/19/2018	<0.001	<0.001
8/20/2019	<0.001	
8/21/2019		<0.001
10/8/2019	<0.001	
10/9/2019		<0.001
3/17/2020	8E-05 (J)	<0.001
7/6/2020		7.3E-05 (J)
8/27/2020	<0.001	
8/28/2020		<0.001
11/12/2020		<0.001
8/19/2021	<0.001	
8/27/2021		<0.001
2/9/2022	<0.001	<0.001
8/31/2022	<0.001	<0.001
2/8/2023	<0.001	
2/10/2023		<0.001
8/15/2023	<0.001	<0.001
Mean	0.0009459	0.0009512
Std. Dev.	0.0002231	0.0002127
Upper Lim.	0.001	0.001
Lower Lim.	8E-05	7.3E-05

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