



2022 Annual Groundwater Monitoring and Corrective Action Report

**Plant Yates – Ash Pond 2
Newnan, Georgia**

January 31, 2023



2022 Annual Groundwater Monitoring and Corrective Action Report

**Plant Yates – Ash Pond 2
Newman, Georgia**

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Prepared By:

Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 900
Atlanta
Georgia 30339
Phone: 770 431 8666
Fax: 770 435 2666

Prepared For:

Georgia Power Company
Newnan, Georgia
Coweta County



Alexandra Simpson
Project Geologist



Geoffrey Gay
Technical Expert (Eng) / Project Manager

Summary

This summary of the 2022 Annual Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program in 2022 at Georgia Power Company’s (Georgia Power’s) Plant Yates Ash Pond (AP) AP-2 (the Site). Arcadis U.S., Inc. (Arcadis) prepared this summary on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant 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 materials resulting from power generation have historically been transferred and stored at the Site. CCR has been removed from AP-2 West and AMAX Cove, and CCR removal is ongoing at the Site.

Groundwater at the Site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements. Routine sampling and reporting began in 2017 after the completion of eight background sampling events. Based on groundwater conditions at the Site, an assessment monitoring program was established on January 15, 2018.

During the 2022 reporting period, Arcadis conducted two groundwater sampling events in February and August/September. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for February and August/September 2022 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² parameters in wells provided in the table below. There were no statistically significant levels (SSLs) detected for Appendix IV³ parameters⁴. During the 2022 annual reporting period, the Site remained in assessment monitoring.



Plant Yates and the Site

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

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

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

⁴ A 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	February 2022	August/September 2022
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S
Total Dissolved Solids		YGWC-26I, YGWC-28S

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program through 2022, 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 (GAEPD) semiannually.

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Acronyms and Abbreviations

Arcadis	Arcadis, Inc.
AP	Ash Pond
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
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
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 2022 Annual Groundwater Monitoring and Corrective Action Report for the Georgia Power Company Plant Yates Ash Pond 2 (AP-2) has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations 257 Subpart D) and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist 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, and 40 CFR Part 258.50(g).

Arcadis U.S., Inc.



J. Geoffrey Gay, P.E.
Technical Expert (Eng)
Georgia Registration No. PE 27801

1-31-23

Date

1 Introduction

This 2022 Annual Groundwater Monitoring and Corrective Action Report documents groundwater monitoring conducted at the Georgia Power Company (GPC) Plant Yates Ash Pond (AP) AP-2 (the Site) in February and August/September 2022. 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.

This report presents the results from the semiannual monitoring for Appendix III and IV constituents conducted in February and August/September 2022 in accordance with 40 CFR § 257.95.

1.1 Background

Plant Yates is located on 708 Dyer Road, on the east bank of the Chattahoochee River in Coweta County, Georgia near the Coweta and Carroll County line, 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. Areas where CCR Removal Reports have been submitted to GA EPD are shown on **Figure 2**. The layout of Plant Yates, the monitoring well network, and other Site features is shown on **Figure 3**.

A permit application to comply with EPD rules was submitted in November 2018 and is currently under review. AP-2 was placed in an assessment monitoring program based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, which was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Semiannual monitoring for the CCR unit is performed in accordance with the monitoring requirements 40 CFR § 257.90 through 257.95 of the Federal CCR Rule and the GAEPD rules for Solid Waste Management 391-3-4-.10(6)(a).

1.2 Regional 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 2022).

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 (ACC 2022). 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 40 CFR § 257.91, a groundwater monitoring system was installed within the uppermost aquifer at the Site. 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 detection monitoring well network is summarized in **Table 1**.

As typical of the Piedmont Physiographic Province, there is a degree of connectivity between the saprolite and partially weathered rock units (Harned, D.A., and Daniel, C.C., III 1992). 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. Wells suffixed with an “S” are installed in saprolite, an “I” indicates partially weathered rock (transition zone), and “D” indicates upper bedrock. The CCR unit AP-2 was established along a topographically low area formed by an unnamed tributary. Based on the Site hydrogeology, the monitoring system is designed to monitor groundwater flow in the overburden, 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 February and August/September 2022 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 by Arcadis at AP-2 during this annual reporting period. During the February and August/September 2022 events, groundwater samples were collected and analyzed for both 40 CFR 257 Appendix III and 40 CFR 257 Appendix IV constituents to meet the requirement of 40 CFR § 257.95(b). Field sampling logs are provided in **Appendix A**.

2.1 Monitoring Well Installation and Maintenance

Monitoring well YGWC-29I required abandonment due to dam construction along the river. Well abandonment began on October 13, 2022 and was completed on October 17, 2022. A well abandonment report was submitted on December 15, 2022 under separate cover and is included in **Appendix A**. YGWC-29I abandonment notwithstanding, the network remained the same as in the 2021 reporting year. A replacement monitoring well will be installed in January 2023 once the dam construction work is complete. Monitoring well-related activities were limited to visual inspection of well conditions before sampling, recording the site conditions, and performing exterior maintenance necessary for sampling under safe and clean conditions. 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 February and August 2022, monitoring wells were inspected to identify the need for corrective actions as documented in **Appendix A**. There were no maintenance issues during this period that required corrective action.

2.2 Assessment Monitoring

AP-2 was placed in an assessment monitoring program based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, which was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Monitoring wells at AP-2 were sampled for Appendix III and Appendix IV parameters in February and August/September 2022 pursuant to 40 CFR § 257.95(b) and 40 CFR § 257.95(d)(1). A summary of the groundwater sampling event is provided in **Table 2**.

3 Sampling Methodology and Analysis

Groundwater monitoring methods at the Site are described in the following sections.

3.1 Groundwater Flow Direction, Gradient, and Velocity

Before each sampling event, static water levels were recorded from piezometers and wells at AP-2 as noted in **Table 3**. Saprolite and transition zone groundwater elevation data were used to prepare potentiometric surface elevation contour maps from the February and August gauging event. Sitewide potentiometric surface maps for February and August 2022 are provided in **Figures 4 and 5**, respectively. AP-2 potentiometric surface maps for February and August 2022 are provided in **Figures 6 and 7**, respectively. The groundwater flow direction for the saprolite and transition zone wells is generally northeast, southwest, and west toward AP-2 where it flows west to the Chattahoochee River. The groundwater flow direction is consistent with historical patterns. It is interpreted that variations between saprolite/transition zone wells and deep bedrock wells are attributed to bedrock geologic

structural controls, and therefore do not reflect the surficial aquifer potentiometric surface. Based on this interpretation, the deep bedrock potentiometric surface was not used for contouring.

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

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

where:

v = groundwater seepage velocity

k = hydraulic conductivity

dh/dl = hydraulic gradient

n_e = 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).

Calculated groundwater flow velocities for February and August 2022 are presented in **Table 4**. The calculated average groundwater linear flow velocity ranges from approximately 29 feet per year to 33 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, thereby, confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

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). All 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, 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:

- ± 0.1 standard units for pH;
- ± 5% for specific conductance;
- Turbidity measurements less than 5 nephelometric turbidity units; and
- ±10% or ±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 equipment calibration records are included in **Appendix A**.

3.3 Laboratory Analyses

Samples were submitted for laboratory analysis from each monitoring well as summarized in **Table 2**. During the February and August/September 2022 sampling events, the AP-2 wells were sampled and analyzed for Appendix III parameters as well as for Appendix IV parameters according to 40 CFR § 257.95(b). **Table 5** provides a summary of the constituents monitored during the events. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports, along with chain-of-custody records included in **Appendix B**.

Analytical data collected from the February and August/September 2022 sampling events is summarized in **Table 6**. 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.

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 February and August/September 2022 data validation reports included in **Appendix B** summarizes 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, quality control samples, and data associated with the chemical analytical results. The data are considered usable for meeting project objectives, and the results are considered valid. The complete results of the data quality evaluations are provided in **Appendix B**.

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 data from the assessment monitoring events pursuant to 40 CFR §§ 257.93–95 following the established, certified statistical methods. 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 Statistical Methods

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 February and August/September 2022 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 statistically significant increase (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 Assessment Monitoring Statistical Methods

Parametric tolerance limits were used to calculate background limits from pooled upgradient well data from the wells identified in **Table 1** for Appendix IV constituents with a target of 95 percent confidence and 95 percent coverage.

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 40 CFR §§ 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.

GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) on February 22, 2022, to incorporate updated Federal GWPS where an MCL has not been established, as noted above, except when site specific background concentrations of these constituents are higher. Statistical evaluation for the February and August/September 2022 events were updated to reflect these changes.

GWPS have been established for statistical comparison of Appendix IV constituents at AP-2. **Table 7** summarizes the background levels established at the monitoring well for the February and August/September 2022 sampling event 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 established under federal and state rules. A sampling result from a well/constituent pair was considered to exceed its respective standard only when results from the entire confidence interval exceeded a GWPS. If there was an exceedance of the established standard, a statistically significant level (SSL) exceedance was identified.

4.2 Statistical Analysis Results

Appendix III statistical analysis for wells associated with the Site was performed to determine whether constituent concentrations have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine whether concentrations statistically exceed the established GWPS. Appendix III and Appendix IV data from the February and August/September 2022 semiannual events were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats 2019).

4.2.1 Appendix III Monitoring Constituents

Based on review of the Appendix III statistical analysis from the February and August/September 2022 sampling events presented in **Appendix C**, Appendix III 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 February and August/September 2022 Appendix IV data was completed using the GWPS established according to both 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). No SSLs were identified. Sanitas™ statistical output data for calculation of site-specific background concentrations and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix C**.

5 Monitoring Program Status

In accordance with 40 CFR § 257.94(e), an assessment monitoring program was implemented in January 2018. No statistical exceedance of a GWPS for Appendix IV parameters has been identified. Pursuant to 40 CFR § 257.96(b), GPC will continue to monitor groundwater at AP-2 in accordance with the assessment monitoring program regulations of 40 CFR § 257.95 due to SSLs for Appendix III parameters.

6 Conclusions and Future Actions

Statistical evaluations of the groundwater monitoring data for the Site identified no exceedance of a GWPS for an Appendix IV constituent during the February and August/September 2022 semiannual sampling events. The next semiannual monitoring event is scheduled for February 2023. The February 2023 semiannual monitoring event will include sampling and analysis of all Appendix III and IV constituents. Replacement detection well YGWC-29IA was installed the week of January 9, 2023.

7 References

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Tables

Table 1
Monitoring Network Well Summary
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Plant Yates - AP-2



Well ID	Installation Date	Top of Casing Elevation (ft)	Depth to Bottom (ft bTOC)	Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	Hydraulic Location / Purpose
Upgradient Wells							
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
Detection Wells							
YGWC-26S	10/1/2015	716.28	40.18	676.10	29.88	686.40	Downgradient
YGWC-26I	9/30/2015	715.91	69.81	646.10	59.51	656.40	Downgradient
YGWC-27S	10/7/2015	716.52	40.52	676.00	30.22	686.30	Downgradient
YGWC-27I	10/7/2015	716.19	79.99	636.20	69.69	646.50	Downgradient
YGWC-28S	10/5/2015	717.95	44.95	673.00	34.65	683.30	Downgradient
YGWC-28I	10/5/2015	717.93	69.93	648.00	59.63	658.30	Downgradient
YGWC-29I	10/1/2015	717.39	39.59	677.80	29.29	688.10	Downgradient
Assessment Wells							
PZ-1S	5/20/2014	836.84	36.34	800.50	26.04	810.80	Piezometer
PZ-3S	5/20/2014	796.39	42.39	754.00	32.09	764.30	Piezometer
PZ-13S	5/20/2014	807.79	43.79	764.00	33.49	774.30	Piezometer
PZ-13I	5/20/2014	807.62	59.22	748.40	48.92	758.70	Piezometer
PZ-14I	5/20/2014	749.06	50.86	698.20	40.56	708.50	Piezometer
PZ-25S	9/2/2015	766.60	56.80	709.80	46.50	720.10	Piezometer
PZ-25I	9/3/2015	766.38	84.58	681.80	74.28	692.10	Piezometer
PZ-31S	9/24/2015	738.62	34.72	703.90	24.42	714.02	Piezometer

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 Plan
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Well ID	Hydraulic Location	Semiannual Monitoring ¹	Semiannual Monitoring ¹
		February 8 - 11, 2022	August 31 - September 1, 2022
YGWA-4I	Upgradient ²	X	X
YGWA-5I	Upgradient ²	X	X
YGWA-5D	Upgradient ²	X	X
YGWA-17S	Upgradient ²	X	X
YGWA-18S	Upgradient ²	X	X
YGWA-18I	Upgradient ²	X	X
YGWA-20S	Upgradient ²	X	X
YGWA-21I	Upgradient ²	X	X
YGWA-39	Upgradient ²	X	X
YGWA-40	Upgradient ²	X	X
YGWA-47	Upgradient ²	X	X
GWA-2	Upgradient ²	X	X
YGWA-1I	Upgradient	X	X
YGWA-1D	Upgradient	X	X
YGWA-2I	Upgradient	X	X
YGWA-3I	Upgradient	X	X
YGWA-3D	Upgradient	X	X
YGWA-14S	Upgradient	X	X
YGWA-30I	Upgradient	X	X
YGWC-26S	Downgradient	X	X
YGWC-26I	Downgradient	X	X
YGWC-27S	Downgradient	X	X
YGWC-27I	Downgradient	X	X
YGWC-28S	Downgradient	X	X
YGWC-28I	Downgradient	X	X
YGWC-29I	Downgradient	X	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

Table 3
Summary of Groundwater Elevations - February and August 2022
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2



Well ID	Date	TOC Elevation (ft)	Depth to Water (bTOC)	Groundwater Elevation (ft)
Downgradient Wells - February 2022				
YGWC-26S	2/7/2022	716.28	25.36	690.92
YGWC-26I	2/7/2022	715.91	26.70	689.21
YGWC-27S	2/7/2022	716.52	29.76	686.76
YGWC-27I	2/7/2022	716.19	29.70	686.49
YGWC-28S	2/7/2022	717.95	27.88	690.07
YGWC-28I	2/7/2022	717.93	29.45	688.48
YGWC-29I	2/7/2022	717.39	27.92	689.47
PZ-01S	2/7/2022	836.84	32.84	804.00
PZ-03S	2/7/2022	796.39	36.47	759.92
PZ-13S	2/7/2022	807.79	36.37	771.42
PZ-13I	2/7/2022	807.62	40.05	767.57
PZ-14I	2/8/2022	749.06	19.58	729.48
PZ-25S	2/7/2022	766.60	43.07	723.53
PZ-25I	2/7/2022	766.38	46.02	720.36
PZ-31S	2/8/2022	738.62	26.15	712.47
Upgradient Wells - February 2022				
YGWA-4I	2/7/2022	784.21	22.29	761.92
YGWA-5I	2/7/2022	784.54	17.96	766.58
YGWA-5D	2/7/2022	784.53	19.54	764.99
YGWA-17S	2/7/2022	783.05	11.74	771.31
YGWA-18S	2/7/2022	790.57	19.81	770.76
YGWA-18I	2/7/2022	790.57	23.05	767.52
YGWA-20S	2/7/2022	767.12	11.00	756.12
YGWA-21I	2/7/2022	783.70	30.18	756.10
YGWA-39	2/7/2022	818.19	17.62	800.57
YGWA-40	2/7/2022	815.73	22.71	793.02
YGWA-1I	2/7/2022	836.60	37.90	798.70
YGWA-1D	2/7/2022	837.25	48.94	788.31
YGWA-2I	2/7/2022	866.25	44.92	821.33
YGWA-3I	2/7/2022	796.55	52.35	744.20
YGWA-3D	2/7/2022	796.78	30.28	766.50
YGWA-14S	2/8/2022	748.76	18.58	730.18
YGWA-30I	2/8/2022	762.58	43.98	718.60
YGWA-47	2/7/2022	758.22	34.83	723.39
GWA-2	2/7/2022	805.62	36.39	769.23

Table 3
Summary of Groundwater Elevations - February and August 2022
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2



Well ID	Date	TOC Elevation (ft)	Depth to Water (bTOC)	Groundwater Elevation (ft)
Downgradient Wells - August 2022				
YGWC-26S	8/29/2022	716.28	27.64	688.64
YGWC-26I	8/29/2022	715.91	27.78	688.13
YGWC-27S	8/29/2022	716.52	30.75	685.77
YGWC-27I	8/29/2022	716.19	30.66	685.53
YGWC-28S	8/29/2022	717.95	29.40	688.55
YGWC-28I	8/29/2022	717.93	30.26	687.67
YGWC-29I	8/29/2022	717.39	30.01	687.38
PZ-01S	8/29/2022	836.84	32.20	804.64
PZ-03S	8/29/2022	796.39	35.47	760.92
PZ-13S	8/29/2022	807.79	36.41	771.38
PZ-13I	8/29/2022	807.62	41.19	766.43
PZ-14I	8/29/2022	749.06	21.04	728.02
PZ-25S	8/29/2022	766.60	46.48	720.12
PZ-25I	8/29/2022	766.38	50.17	716.21
PZ-31S	8/29/2022	738.62	30.34	708.28
Upgradient Wells - August 2022				
YGWA-4I	8/29/2022	784.21	24.06	760.15
YGWA-5I	8/29/2022	784.54	20.63	763.91
YGWA-5D	8/29/2022	784.53	21.87	762.66
YGWA-17S	8/29/2022	783.05	13.45	769.60
YGWA-18S	8/29/2022	790.57	21.58	768.99
YGWA-18I	8/29/2022	790.57	25.58	764.99
YGWA-20S	8/29/2022	767.12	11.64	755.48
YGWA-21I	8/29/2022	783.70	31.73	756.10
YGWA-39	8/29/2022	818.19	17.72	800.47
YGWA-40	8/29/2022	815.73	23.64	792.09
YGWA-1I	8/29/2022	836.60	37.21	799.39
YGWA-1D	8/29/2022	837.25	49.37	787.88
YGWA-2I	8/29/2022	866.25	44.49	821.76
YGWA-3I	8/29/2022	796.55	53.39	743.16
YGWA-3D	8/29/2022	796.78	30.43	766.35
YGWA-14S	8/29/2022	748.76	20.18	728.58
YGWA-30I	8/29/2022	762.58	43.83	718.75
YGWA-47	8/29/2022	758.22	28.16	730.06
GWA-2	8/29/2022	805.62	36.23	769.39

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

TOC = top of casing

Table 4
Groundwater Flow Velocity Calculations - February and August 2022
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2



Equation

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

where: V = groundwater velocity
 K = i = hydraulic conductivity
 dh/dl = i = hydraulic gradient
 n_e = effective porosity

Values Used in Calculation

Value			Source
K _{max} :	3.02E-03	cm/sec	See note 1
	8.57	ft/day	
K _{min} :	1.00E-06	cm/sec	
	0.003	ft/day	
K _{avg}	1.50E-04	cm/sec	
	0.43	ft/day	
Distance from:			
PZ-01S to YGWA-14S	2,610	feet	
PZ-13S to YGWC-28S	1,460	feet	
YGWA-14S to PZ-31S	575	feet	
Groundwater Elevation			Date Collected:
PZ-01S	804.00	feet	February 2022
YGWA-14S	730.18		
PZ-13S	771.42		
YGWC-28	690.07		
YGWA-14S	730.18		
PZ-31S	712.47		
Groundwater Elevation			Date Collected:
PZ-01S	804.64	feet	August 2022
YGWA-14S	728.58		
PZ-13S	771.38		
YGWC-28	688.55		
YGWA-14S	728.58		
PZ-31S	708.28		
Hydraulic gradient from:			Hydraulic gradient from:
i ₁ = 0.028	unitless		PZ-01S to YGWA-14S (Feb. 2022)
i ₂ = 0.056	unitless		PZ-13S to YGWC-28S (Feb. 2022)
i ₃ = 0.031	unitless		YGWA-14S to PZ-31S (Feb. 2022)
i _{avg} = 0.038	unitless		Average
Hydraulic gradient from:			Hydraulic gradient from:
i ₁ = 0.029	unitless		PZ-01S to YGWA-14S (Aug. 2022)
i ₂ = 0.057	unitless		PZ-13S to YGWC-28S (Aug. 2022)
i ₃ = 0.035	unitless		YGWA-14S to PZ-31S (Aug. 2022)
i _{avg} = 0.040	unitless		Average
n _e = 0.20	unitless		See note 2

Table 4
Groundwater Flow Velocity Calculations - February and August 2022
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2



Minimum Linear Flow Velocity

February 2022

$$V_{\min} = \frac{(0.003)(0.038)}{0.20}$$

August 2022

$$V_{\min} = \frac{(0.003)(0.040)}{0.20}$$

Maximum Linear Flow Velocity

February 2022

$$V_{\max} = \frac{(8.57)(0.038)}{0.20}$$

August 2022

$$V_{\max} = \frac{(8.57)(0.040)}{0.20}$$

$$V_{\min} = 0.0006 \text{ ft/day, or } 0.2 \text{ ft/year}$$

$$V_{\max} = 1.6 \text{ ft/day, or } 584 \text{ ft/year}$$

$$V_{\min} = 0.0006 \text{ ft/day, or } 0.2 \text{ ft/year}$$

$$V_{\max} = 1.7 \text{ ft/day, or } 621 \text{ ft/year}$$

Average Linear Flow Velocity

February 2022

$$V_{\text{avg}} = \frac{(0.43)(0.038)}{0.2}$$

$$V_{\text{avg}} = 0.08 \text{ ft/day, or } 29 \text{ ft/year}$$

August 2022

$$V_{\text{avg}} = \frac{(0.43)(0.040)}{0.2}$$

$$V_{\text{avg}} = 0.09 \text{ ft/day, or } 33 \text{ ft/year}$$

Notes:

1. Slug tests performed by Atlantic Coast Consulting, Inc. at AP-2 (2014-2017)
2. Default value recommended by USEPA for silty sand-type soil (USEPA 1989)

Table 5
Summary of Groundwater Monitoring Parameters
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates AP-2



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

	Analyte	YGWC-26S	YGWC-26S	YGWC-26I	YGWC-26I	YGWC-27S	YGWC-27S	YGWC-27I	YGWC-27I	YGWC-28S	YGWC-28S
		2/10/2022	8/31/2022	2/10/2022	8/31/2022	2/8/2022	9/1/2022	2/10/2022	9/1/2022	2/8/2022	9/1/2022
Appendix III	pH	5.31	5.61	5.84	5.77	6.22	6.13	6.23	6.13	6.30	6.59
	Boron	0.79	0.70	0.79	0.64	1.1	1.0	2.5	2.3	2.4	2.2
	Calcium	11.6	10.8	16.4	16.4	27.2	21.3	27.4	28.2	26.7	33.1
	Chloride	14.0	15.0	15.4	16.6	13.0	10.4	13.1	13.4	18.3	16.5
	Fluoride	< 0.050	0.076 J	< 0.050	0.082 J	0.087 J	0.12	0.059 J	0.10	0.14	0.16
	Sulfate	86.5	90.2	81.8	85.9	16.3	13.5	2.4	2.5	10.5	13.4
	Total Dissolved Solids	168	206	207	228	159	124	190	193	216	225
Appendix IV	Antimony	< 0.00078	< 0.00078	< 0.00078	0.0010 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	0.0032 J	< 0.0022	0.0028 J	< 0.0022	0.0019 J	< 0.0022	0.0040 J	< 0.0022	0.0042 J	< 0.0022
	Barium	0.027	0.024	0.063	0.057	0.068	0.049	0.079	0.076	0.20	0.20
	Beryllium	0.000093 J	0.000074 J	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.00013 J	0.00012 J	< 0.000054	< 0.000054
	Cadmium	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	0.0026 J	0.0026 J	< 0.00039	< 0.00039	0.0017 J	0.0015 J	0.0051	0.0096	0.00091 J	0.00071 J
	Lead	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	< 0.00073	< 0.00073	0.0086 J	0.0074 J	< 0.00073	< 0.00073	0.0072 J	0.0069 J	< 0.00073	< 0.00073
	Mercury	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00019 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0018 J	0.0016 J	0.00082 J	< 0.00074
	Combined Radium - 226/228	0.431 U	0.602 U	0.149 U	0.179 U	0.781 U	0.147 U	1.23	2.93	0.964	0.127 U
	Selenium	< 0.0014	< 0.0014	0.0042 J	0.0036 J	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
Thallium	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	

Notes:
 1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.
 Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III.
 Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.
 < Analyte was not detected above the laboratory method detection limit (MDL).

Laboratory Qualifiers:
 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.

	Analyte	YGWC-26S	YGWC-26S	YGWC-26I	YGWC-26I	YGWC-27S	YGWC-27S	YGWC-27I	YGWC-27I	YGWC-28S	YGWC-28S
		2/10/2022	8/31/2022	2/10/2022	8/31/2022	2/8/2022	9/1/2022	2/10/2022	9/1/2022	2/8/2022	9/1/2022
Appendix III	pH	5.31	5.61	5.84	5.77	6.22	6.13	6.23	6.13	6.30	6.59
	Boron	0.79	0.70	0.79	0.64	1.1	1.0	2.5	2.3	2.4	2.2
	Calcium	11.6	10.8	16.4	16.4	27.2	21.3	27.4	28.2	26.7	33.1
	Chloride	14.0	15.0	15.4	16.6	13.0	10.4	13.1	13.4	18.3	16.5
	Fluoride	< 0.050	0.076 J	< 0.050	0.082 J	0.087 J	0.12	0.059 J	0.10	0.14	0.16
	Sulfate	86.5	90.2	81.8	85.9	16.3	13.5	2.4	2.5	10.5	13.4
	Total Dissolved Solids	168	206	207	228	159	124	190	193	216	225
Appendix IV	Antimony	< 0.00078	< 0.00078	< 0.00078	0.0010 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	0.0032 J	< 0.0022	0.0028 J	< 0.0022	0.0019 J	< 0.0022	0.0040 J	< 0.0022	0.0042 J	< 0.0022
	Barium	0.027	0.024	0.063	0.057	0.068	0.049	0.079	0.076	0.20	0.20
	Beryllium	0.000093 J	0.000074 J	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.00013 J	0.00012 J	< 0.000054	< 0.000054
	Cadmium	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	0.0026 J	0.0026 J	< 0.00039	< 0.00039	0.0017 J	0.0015 J	0.0051	0.0096	0.00091 J	0.00071 J
	Lead	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	< 0.00073	< 0.00073	0.0086 J	0.0074 J	< 0.00073	< 0.00073	0.0072 J	0.0069 J	< 0.00073	< 0.00073
	Mercury	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00019 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0018 J	0.0016 J	0.00082 J	< 0.00074
	Combined Radium - 226/228	0.431 U	< 0.602	0.149 U	< 0.179	0.781 U	< 0.147	1.23	2.93	0.964	< 0.127
	Selenium	< 0.0014	< 0.0014	0.0042 J	0.0036 J	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
Thallium	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	

Notes:
 1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.
 Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III.
 Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.
 < Analyte was not detected above the laboratory method detection limit (MDL).

Laboratory Qualifiers:
 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.

	Analyte	Units	GWA-2	GWA-2	YGWA-1D	YGWA-1D	YGWA-1I	YGWA-1I	YGWA-2I	YGWA-2I	YGWA-3I
			2/8/2022	8/30/2022	2/9/2022	8/30/2022	2/9/2022	8/31/2022	2/9/2022	8/30/2022	2/9/2022
Appendix III	pH	SU	5.83	5.39	7.12	7.2	6.24	5.64	5.89	7.04	7.66
	Boron	mg/l	< 0.040	< 0.0086	< 0.040	< 0.0086	< 0.040	< 0.043 D3	< 0.040	< 0.0086	< 0.040
	Calcium	mg/l	25.6	23.5	14.9	14.9	2.1	1.9	23.4	25.4	23.7
	Chloride	mg/l	5.7	6.3	1.0	1.3	1.3	1.5	1.0 J	1.2	1.1
	Fluoride	mg/l	0.064 J	0.086 J	0.057	0.093 J	< 0.10	0.065 J	0.094 J	0.12	0.097 J
	Sulfate	mg/l	107	101	9.3	10.2	5.1	4.8	18.0	20.1	16.0
	Total Dissolved Solids	mg/l	283	244	105	105	57.0	57.0	156	153	145
Appendix IV	Antimony	mg/l	< 0.0030	< 0.00078	< 0.0030	< 0.00078	< 0.0030	< 0.00078	< 0.0030	< 0.00078	< 0.0030
	Arsenic	mg/l	0.0033 J	0.0024 J	0.0031 J	< 0.0022	0.0033 J	< 0.0022	0.0037 J	0.0027 J	0.0018 J
	Barium	mg/l	0.037	0.031	0.0067	0.0066	0.0088	0.0074	0.0029 J	0.0030 J	0.0031 J
	Beryllium	mg/l	< 0.00050	< 0.000054	< 0.00050	< 0.000054	< 0.00050	< 0.00027 D3	< 0.00050	< 0.000054	< 0.00050
	Cadmium	mg/l	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050
	Chromium	mg/l	< 0.0050	< 0.0011	< 0.0050	0.0011 J	< 0.0050	< 0.0011	< 0.0050	< 0.0011	< 0.0050
	Cobalt	mg/l	0.072	0.075	0.00072 J	< 0.00039	0.0023 J	0.00085 J	< 0.0050	< 0.00039	< 0.0050
	Lead	mg/l	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010
	Lithium	mg/l	0.0031 J	0.0025 J	0.013 J	0.013 J	0.0027 J	< 0.0036	0.0060 J	0.0044 J	0.021 J
	Mercury	mg/l	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020
	Molybdenum	mg/l	< 0.010	< 0.00074	0.0093 J	0.0094 J	0.0055 J	0.0055 J	0.0057 J	0.0068 J	0.0087 J
	Combined Radium - 226/228	pCi/l	0.462 U	1.52	1.19	0.827	0.422 U	0.490 U	0.894 U	0.699 U	1.91
	Selenium	mg/l	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050
	Thallium	mg/l	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010

Notes:
 1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.
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	Analyte	Units	YGWA-3I	YGWA-3D	YGWA-3D	YGWA-4I	YGWA-4I	YGWA-5D	YGWA-5D	YGWA-5I
			8/31/2022	2/9/2022	8/31/2022	2/11/2022	8/31/2022	2/10/2022	8/30/2022	2/10/2022
Appendix III	pH	SU	7.49	7.97	7.65	5.95	5.50	6.99	7.40	5.14
	Boron	mg/l	< 0.0086	0.010 J	< 0.0086	< 0.040	< 0.0086	0.011 J	0.0098 J	< 0.040
	Calcium	mg/l	23.5	30.3	28.7	7.5	8.9	24.8	24.8	2.5
	Chloride	mg/l	1.3	1.1	1.3	4.1	4.4	3.2	3.5	4.4
	Fluoride	mg/l	0.13	0.43	0.42	< 0.10	0.061 J	0.055 J	0.085 J	< 0.10
	Sulfate	mg/l	13.9	7.2	6.9	7.7	8.0	4.9	5.7	2.4
	Total Dissolved Solids	mg/l	137	154	141	102	92.0	127	148	77.0
Appendix IV	Antimony	mg/l	< 0.00078	0.0018 J	< 0.00078	< 0.0030	< 0.00078	< 0.0030	< 0.00078	< 0.0030
	Arsenic	mg/l	< 0.0022	0.0020 J	0.0028 J	0.0014 J	< 0.0022	0.0040 J	0.0031 J	0.0016 J
	Barium	mg/l	0.0030 J	0.0051	0.0048 J	0.013	0.013	0.0084	0.0079	0.020
	Beryllium	mg/l	< 0.000054	< 0.00050	< 0.000054	< 0.00050	< 0.000054	< 0.00050	< 0.000054	< 0.00050
	Cadmium	mg/l	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050
	Chromium	mg/l	< 0.0011	< 0.0050	< 0.0011	< 0.0050	< 0.0011	< 0.0050	< 0.0011	< 0.0050
	Cobalt	mg/l	< 0.00039	< 0.0050	< 0.00039	< 0.0050	< 0.00039	< 0.0050	< 0.00039	< 0.0050
	Lead	mg/l	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010
	Lithium	mg/l	0.022 J	0.026 J	0.021 J	0.012 J	0.013 J	0.0076 J	0.0068 J	0.0036 J
	Mercury	mg/l	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020
	Molybdenum	mg/l	0.0068 J	0.013	0.011	< 0.010	< 0.00074	0.00096 J	0.00089 J	< 0.010
	Combined Radium - 226/228	pCi/l	1.33	3.28	2.12	0.996	0.962	3.33	5.34	0.375 U
	Selenium	mg/l	< 0.0014	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050
	Thallium	mg/l	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010

Notes:

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	Analyte	Units	YGWA-5I	YGWA-14S	YGWA-14S	YGWA-17S	YGWA-17S	YGWA-18I	YGWA-18I	YGWA-18S
			8/30/2022	2/10/2022	8/31/2022	2/9/2022	8/30/2022	2/9/2022	8/30/2022	2/9/2022
Appendix III	pH	SU	5.00	4.50	5.15	5.53	4.68	5.98	5.82	5.28
	Boron	mg/l	< 0.0086	0.020 J	0.015 J	0.0098 J	0.013 J	< 0.040	< 0.0086	< 0.040
	Calcium	mg/l	2.5	1.3	1.3	2.8	3.0	5.1	5.7	0.87 J
	Chloride	mg/l	4.4	4.7	4.6	10.9	12.0	7.5	7.9	7.0
	Fluoride	mg/l	< 0.050	< 0.10	0.053 J	< 0.10	< 0.050	< 0.10	< 0.050	< 0.10
	Sulfate	mg/l	2.4	6.2	5.8	4.8	4.7	0.51 J	0.78 J	1.1
	Total Dissolved Solids	mg/l	86.0	56.0	51.0	81.0	81.0	103	100	60.0
Appendix IV	Antimony	mg/l	< 0.00078	< 0.0030	< 0.00078	< 0.0030	< 0.00078	< 0.0030	< 0.00078	< 0.0030
	Arsenic	mg/l	< 0.0022	0.0016 J	< 0.0022	0.0024 J	< 0.0022	0.0022 J	< 0.0022	0.0024 J
	Barium	mg/l	0.017	0.0088	0.0075	0.017	0.017	0.021	0.017	0.014
	Beryllium	mg/l	< 0.000054	0.00025 J	0.00020 J	0.00011 J	0.00010 J	< 0.00050	< 0.000054	0.000089 J
	Cadmium	mg/l	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050
	Chromium	mg/l	< 0.0011	< 0.0050	< 0.0011	< 0.0050	< 0.0011	< 0.0050	< 0.0011	0.0014 J
	Cobalt	mg/l	< 0.00039	< 0.0050	< 0.00039	< 0.0050	< 0.00039	< 0.0050	< 0.00039	< 0.0050
	Lead	mg/l	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010
	Lithium	mg/l	0.0035 J	< 0.030	< 0.00073	< 0.030	< 0.00073	0.0032 J	0.0036 J	0.0015 J
	Mercury	mg/l	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020
	Molybdenum	mg/l	< 0.00074	< 0.010	< 0.00074	< 0.010	< 0.00074	< 0.010	< 0.00074	< 0.010
	Combined Radium - 226/228	pCi/l	0 U	0 U	0.421 U	0.133 U	1.08	0.571 U	1.01	0.0618 U
	Selenium	mg/l	< 0.0014	0.0014 J	< 0.0014	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050
	Thallium	mg/l	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010

Notes:

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	Analyte	Units	YGWA-18S	YGWA-20S	YGWA-20S	YGWA-21I	YGWA-21I	YGWA-30I	YGWA-30I	YGWA-39
			8/30/2022	2/9/2022	8/31/2022	2/9/2022	8/30/2022	2/11/2022	8/31/2022	2/8/2022
Appendix III	pH	SU	5.18	5.91	5.38	6.84	6.58	5.59	5.87	5.78
	Boron	mg/l	0.014 J	< 0.040	< 0.043 D3	< 0.040	0.012 J	< 0.040	< 0.0086	0.13
	Calcium	mg/l	0.77 J	2.3	2.4	9.8	7.3	1.5	1.3	15.2
	Chloride	mg/l	7.0	2.8	2.9	1.7	2.4	2.1	1.8	7.4
	Fluoride	mg/l	< 0.050	< 0.10	< 0.050	0.10	0.10	< 0.10	0.060 J	0.052 J
	Sulfate	mg/l	1.3	< 1.0	< 0.50	3.9	3.2	2.8	1.1	14.6
	Total Dissolved Solids	mg/l	52.0	72.0	62.0	131	122	66.0	33.0 D6	248
Appendix IV	Antimony	mg/l	< 0.00078	< 0.0030	< 0.00078	< 0.0030	0.0046	< 0.0030	< 0.00078	< 0.0030
	Arsenic	mg/l	< 0.0022	0.0021 J	< 0.0022	0.0036 J	0.0022 J	0.0014 J	< 0.0022	0.0034 J
	Barium	mg/l	0.012	0.014	0.011	0.011	0.0085	0.0077	0.0068	0.041
	Beryllium	mg/l	0.000082 J	0.000077 J	< 0.00027 D3	< 0.00050	< 0.000054	< 0.00050	< 0.000054	< 0.00050
	Cadmium	mg/l	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	< 0.00050	< 0.00011	0.00063
	Chromium	mg/l	0.0015 J	< 0.0050	< 0.0011	< 0.0050	< 0.0011	< 0.0050	< 0.0011	< 0.0050
	Cobalt	mg/l	< 0.00039	< 0.0050	< 0.00039	0.0078	0.0066	0.0038 J	0.0040 J	0.0012 J
	Lead	mg/l	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089	< 0.0010
	Lithium	mg/l	0.0014 J	0.00082 J	< 0.00073	0.0061 J	0.0079 J	0.0014 J	0.0012 J	0.0080 J
	Mercury	mg/l	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020	< 0.00013	< 0.00020
	Molybdenum	mg/l	< 0.00074	< 0.010	< 0.00074	< 0.010	< 0.00074	< 0.010	< 0.00074	0.0035 J
	Combined Radium - 226/228	pCi/l	0.611 U	0.504 U	0.184 U	1.94	1.27	0.268 U	0.506 U	0.834
	Selenium	mg/l	< 0.0014	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050	< 0.0014	< 0.0050
	Thallium	mg/l	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018	< 0.0010

Notes:

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	Analyte	Units	YGWA-39	YGWA-40	YGWA-40	YGWA-47	YGWA-47
			8/31/2022	2/8/2022	8/31/2022	2/8/2022	8/31/2022
Appendix III	pH	SU	5.30	5.26	4.53	5.40	5.32
	Boron	mg/l	0.14	0.074	0.062	0.015 J	0.0091 J
	Calcium	mg/l	16.3	6.0	6.2	9.4	9.6
	Chloride	mg/l	6.7	6.2	6.3	3.2	3.5
	Fluoride	mg/l	0.065 J	< 0.10	0.050 J	< 0.10	0.065 J
	Sulfate	mg/l	10.9	17.9	17.9	50.9	48.0
	Total Dissolved Solids	mg/l	248	93.0	92.0	151	116
Appendix IV	Antimony	mg/l	< 0.00078	< 0.0030	< 0.00078	< 0.0030	< 0.00078
	Arsenic	mg/l	0.0029 J	0.0030 J	< 0.0022	0.0027 J	< 0.0022
	Barium	mg/l	0.035	0.039	0.035	0.030	0.029
	Beryllium	mg/l	< 0.000054	0.00028 J	0.00025 J	0.000056 J	< 0.000054
	Cadmium	mg/l	0.00044 J	< 0.00050	< 0.00011	< 0.00050	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0050	< 0.0011	< 0.0050	< 0.0011
	Cobalt	mg/l	0.00085 J	< 0.0050	< 0.00039	0.0013 J	0.00096 J
	Lead	mg/l	< 0.00089	< 0.0010	< 0.00089	< 0.0010	< 0.00089
	Lithium	mg/l	0.0065 J	0.00076 J	< 0.00073	0.0039 J	0.0037 J
	Mercury	mg/l	< 0.00013	0.00013 J	0.00064	< 0.00020	< 0.00013
	Molybdenum	mg/l	0.0036 J	< 0.010	< 0.00074	< 0.010	< 0.00074
	Combined Radium - 226/228	pCi/l	0.937	0.534 U	0.513 U	0.400 U	0.714 U
	Selenium	mg/l	< 0.0014	0.0014 J	< 0.0014	< 0.0050	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.0010	< 0.00018	< 0.0010	< 0.00018

Notes:

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Table 7
Background Levels and Groundwater Protection Standards
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2



Constituent	Units	Background	GWPS
February 2022			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.071	2.00
Beryllium	mg/L	0.0005	0.004
Cadmium	mg/L	0.00063	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035	0.035 ³
Fluoride	mg/L	0.680	4.00
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.030	0.040
Mercury	mg/L	0.0002	0.002
Molybdenum	mg/L	0.014	0.100
Selenium	mg/L	0.005	0.050
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 ³
August/September 2022			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.071	2.00
Beryllium	mg/L	0.0005	0.004
Cadmium	mg/L	0.00063	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035	0.035 ³
Fluoride	mg/L	0.680	4.00
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.030	0.040
Mercury	mg/L	0.00064	0.002
Molybdenum	mg/L	0.014	0.100
Selenium	mg/L	0.005	0.050
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 ³

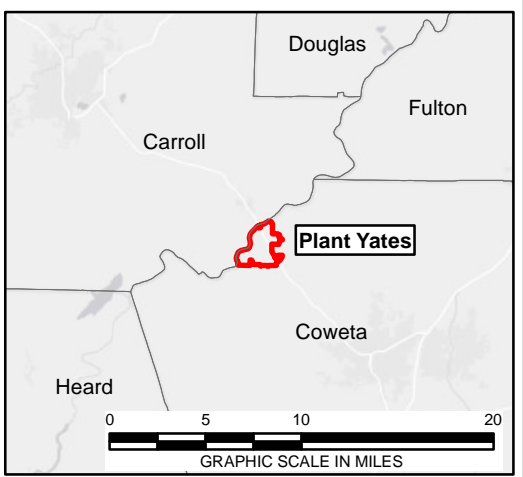
Notes:

1. Site background: Tolerance limits calculated from pooled upgradient well data.
2. GWPS = Groundwater Protection Standard per 40 CFR §257.95(h). On February 22, 2022, the GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS for cobalt, lead, molybdenum, and lithium.
3. 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:

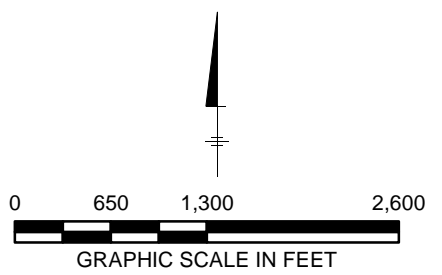
CFR = Code of Federal Regulations
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
pCi/L = picocuries per liter

Figures



LEGEND
 [Yellow dashed line] APPROXIMATE PROPERTY BOUNDARY
 [Black dashed line] PERMITTED UNIT BOUNDARY

NOTE:
 AERIAL IMAGE SOURCES: AUGUST 30, 2022 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-2
 NEWNAN, GA
 2022 ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

ARCADIS | FIGURE
1

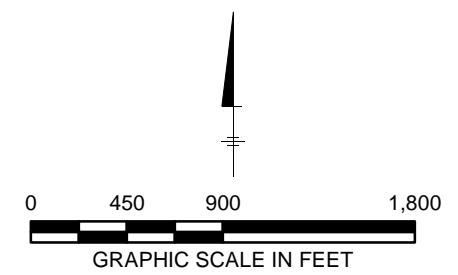


LEGEND

- 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
- ABANDONED DETECTION MONITORING WELL LOCATION
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 1/31/2023

NOTES:

1. YGWC-29I WAS ABANDONED ON OCTOBER 17, 2022. REPLACEMENT WELL YGWC-29IA WAS INSTALLED THE WEEK OF JANUARY 9, 2023.
2. AERIAL IMAGE SOURCES: AUGUST 30, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.



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GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
2022 ANNUAL GROUNDWATER MONITORING
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PLANT YATES CCR REMOVAL AREAS

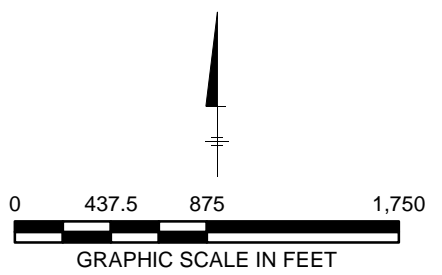
FIGURE
2



LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
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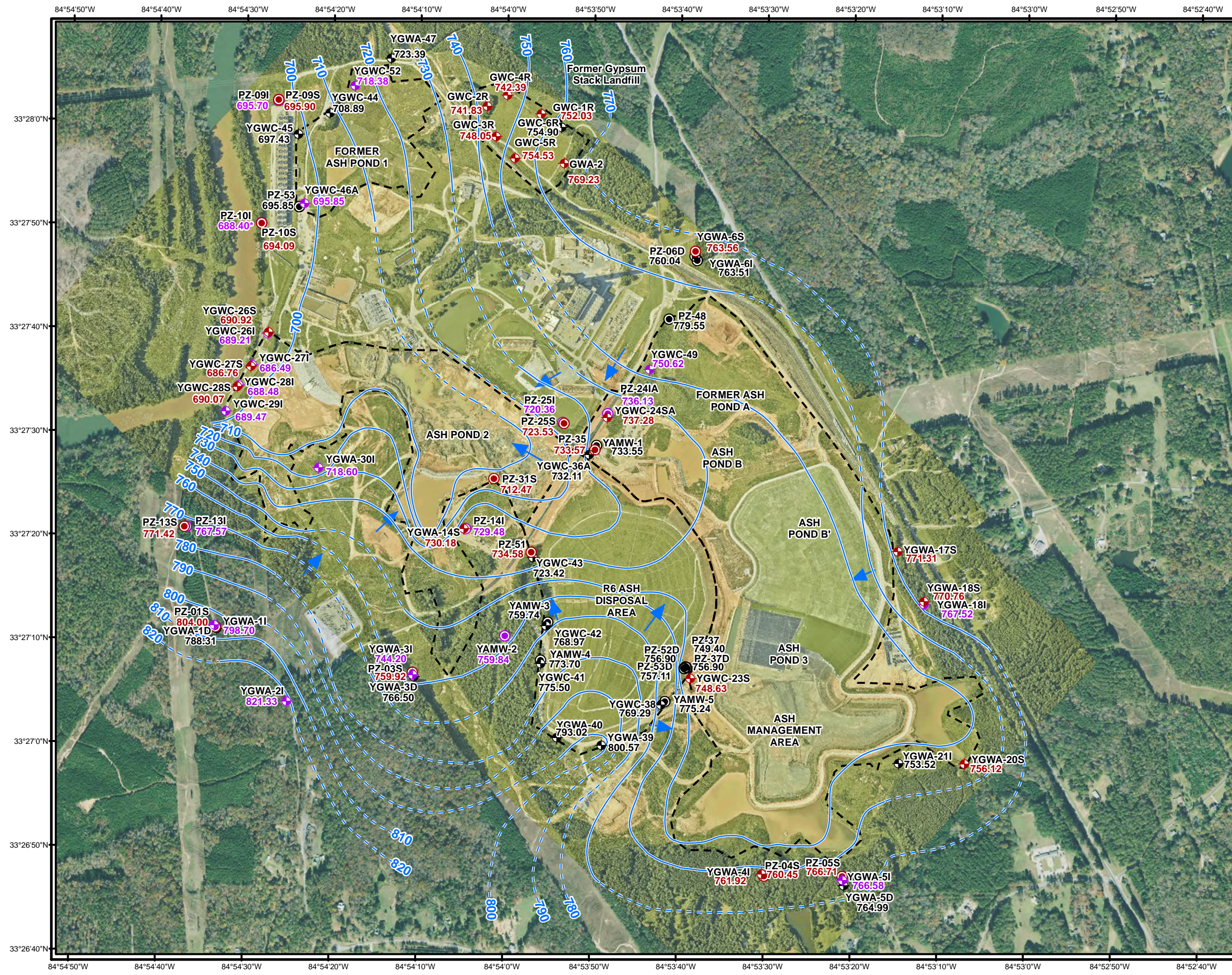
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 2. AERIAL IMAGE SOURCES: AUGUST 30, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

Georgia Power
 PLANT YATES AP-2
 NEWNAN, GA
 2022 ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

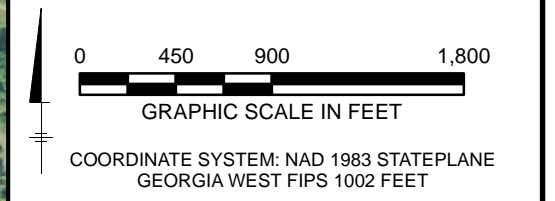



LEGEND

- ◆ 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
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- ➔ GROUNDWATER FLOW DIRECTION

757.11 GROUNDWATER ELEVATION (FEET)

- ### NOTES:
1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.
 2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWA-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: AUGUST 30, 2022 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 FEBRUARY 7, 2022.





Georgia Power
PLANT YATES AP-2
NEWNAN, GA

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITEWIDE GROUNDWATER ELEVATION MAP
FEBRUARY 2022


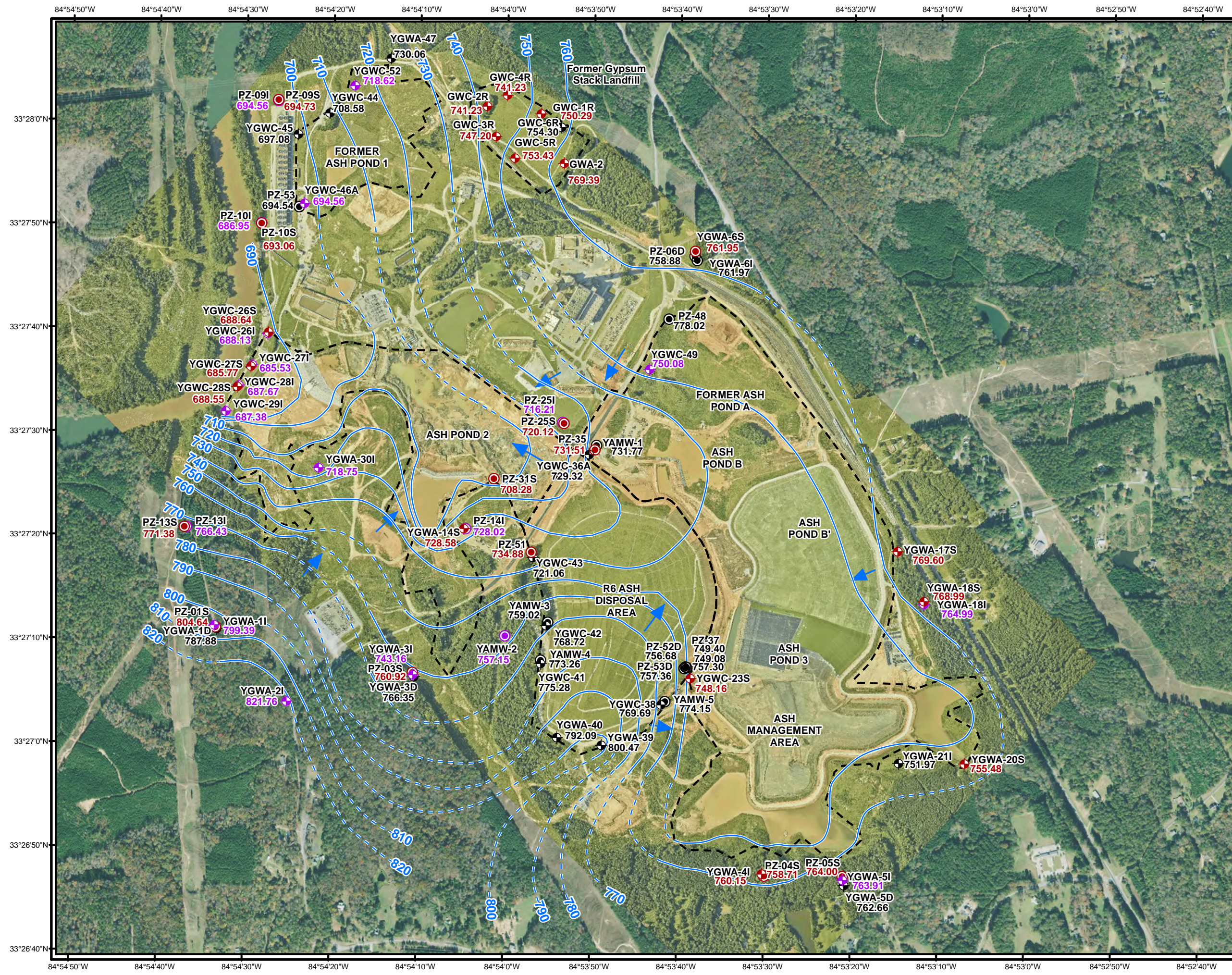


FIGURE
4

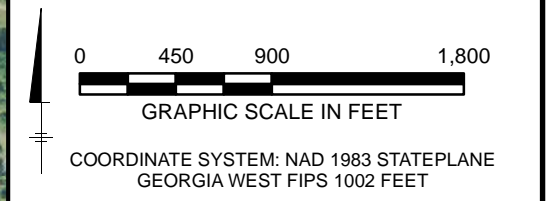



LEGEND

- ◆ 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
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- ➔ GROUNDWATER FLOW DIRECTION

757.11 GROUNDWATER ELEVATION (FEET)

- ### NOTES:
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 3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.
 4. AERIAL IMAGE SOURCES: AUGUST 30, 2022 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 29, 2022.





Georgia Power
PLANT YATES AP-2
NEWNAN, GA

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITEWIDE GROUNDWATER ELEVATION MAP
AUGUST 2022


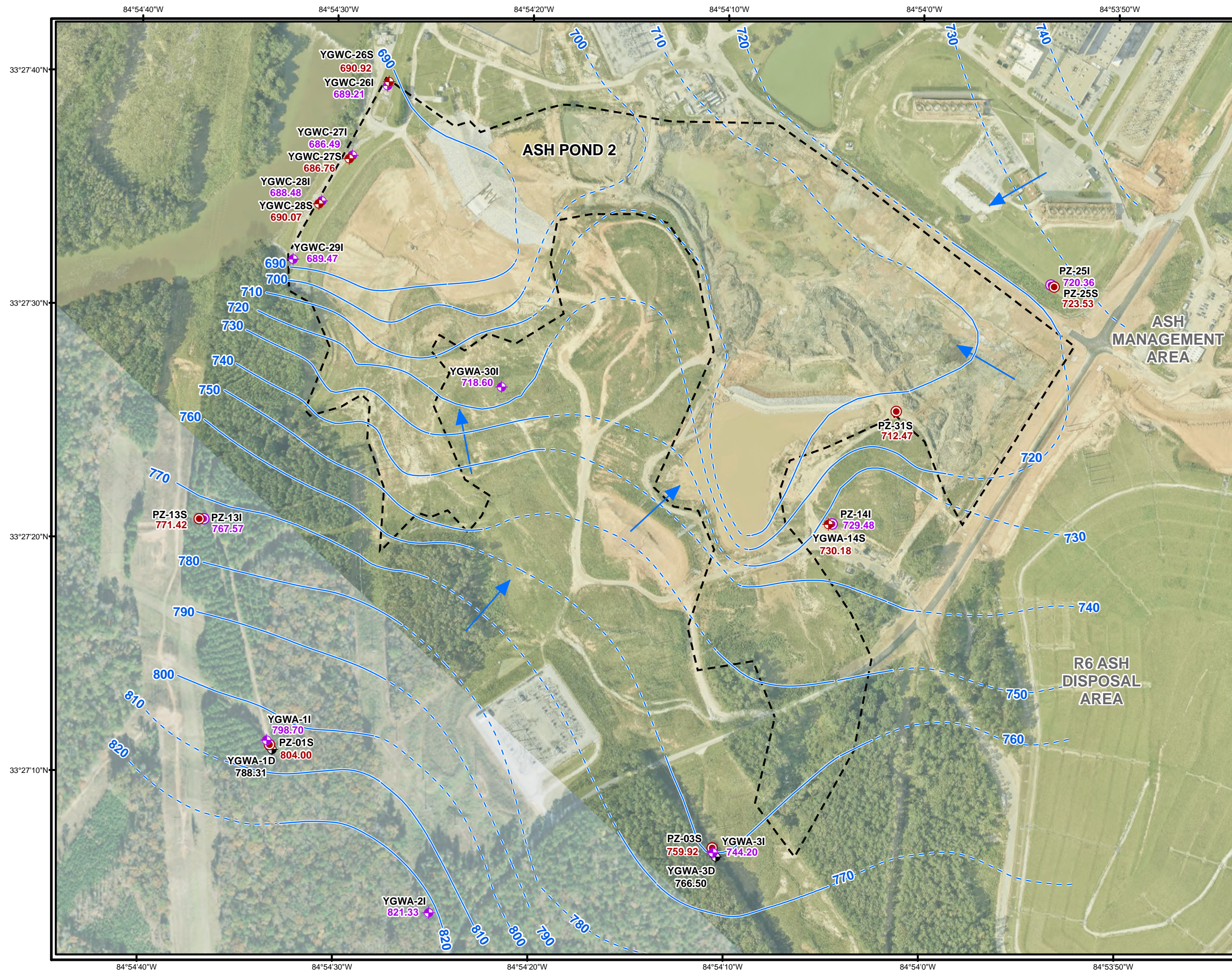


FIGURE
5

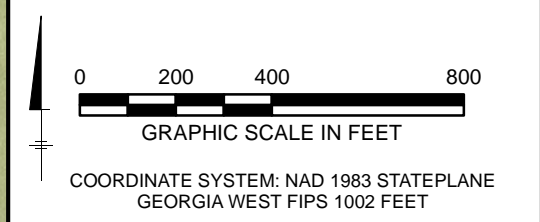



LEGEND

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

690.92 GROUNDWATER ELEVATION (FEET)

- ### NOTES:
1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.
 2. BEDROCK WELL GROUNDWATER ELEVATIONS NOT USED FOR CONTOURING.
 3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.
 4. AERIAL IMAGE SOURCES: AUGUST 30, 2022 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 FEBRUARY 7 & 8, 2022.





Georgia Power
PLANT YATES AP-2
NEWNAN, GA

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP
FEBRUARY 2022


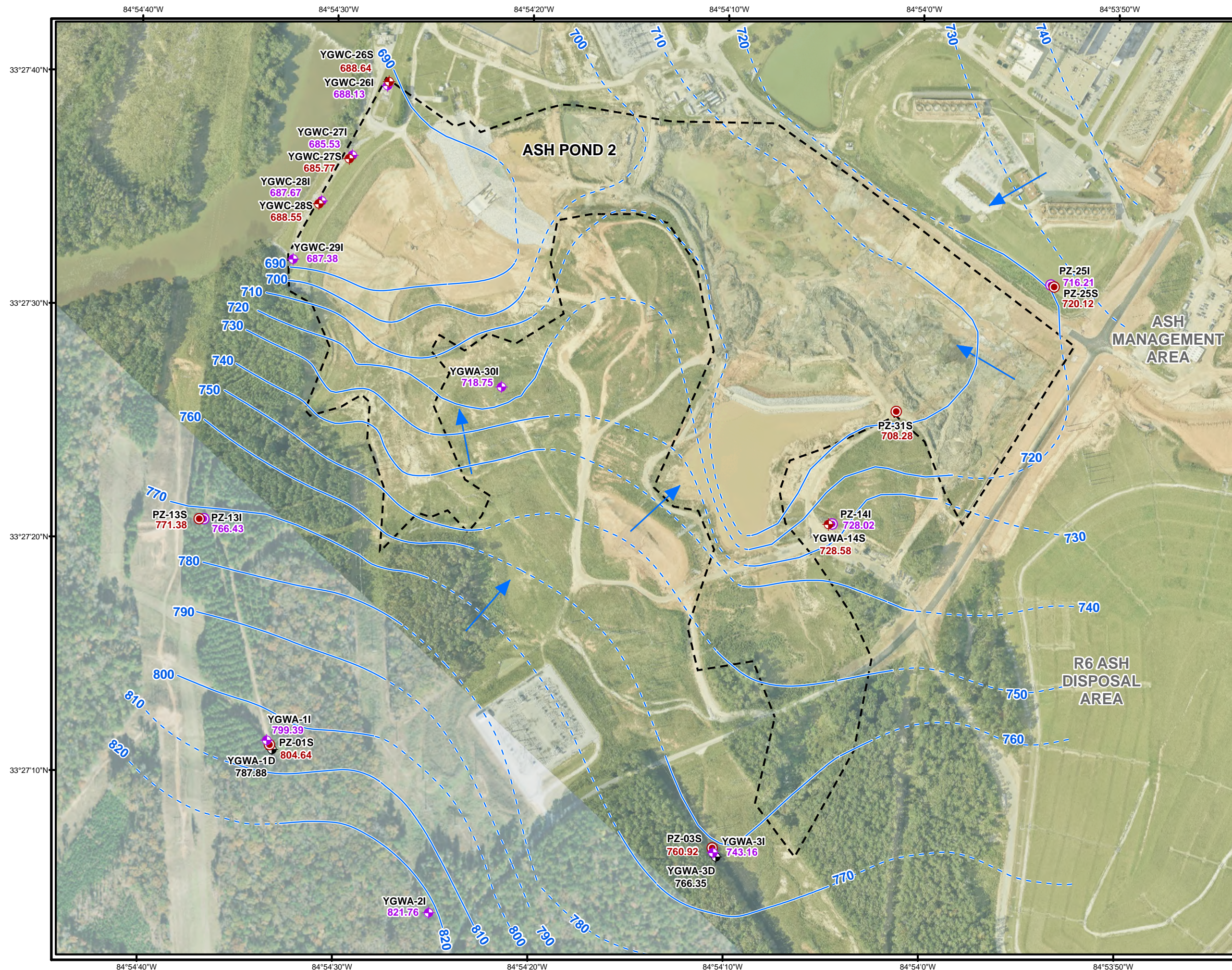


FIGURE
6

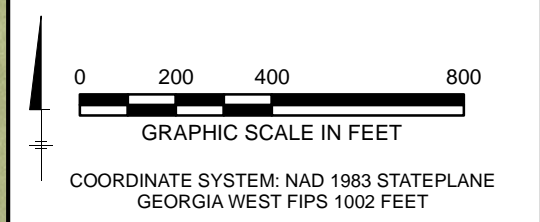



LEGEND

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

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 4. AERIAL IMAGE SOURCES: AUGUST 30, 2022 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 29, 2022.





Georgia Power
PLANT YATES AP-2
NEWNAN, GA

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP
AUGUST 2022




FIGURE
7

Appendix A

**Well Abandonment Report & Field Sampling Forms
(February, August, and September 2022)**



WELL ABANDONMENT REPORT

**Plant Yates AP-2
Newnan, Georgia**

December 14, 2022



Well Abandonment Report
Plant Yates – AP-2

Well Abandonment Report

Plant Yates – AP-2
Newnan, Georgia

December 14, 2022

Prepared By:

Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 900
Atlanta
Georgia 30339
Phone: 770 431 8666
Fax: 770 435 2666

Prepared For:

Georgia Power Company



David Prouty
Project Geologist



Geoffrey Gay, PE
Technical Expert (Eng)

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1	Introduction.....	i
2	Abandonment Activities.....	1

Figures

Figure 1. Site Location

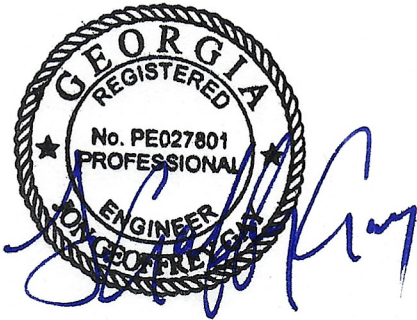
Figure 2. Well Location Map

Appendices

A Well Abandonment Records

PROFESSIONAL ENGINEER CERTIFICATION

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields as demonstrated by state registration and completion of accredited university courses that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g). I further certify that this report was prepared by me or by a subordinate working under my direction.



12.14.22

J. Geoffrey Gay, P.E.
Principal Environmental Engineer
Georgia Registration No. 27801

Date

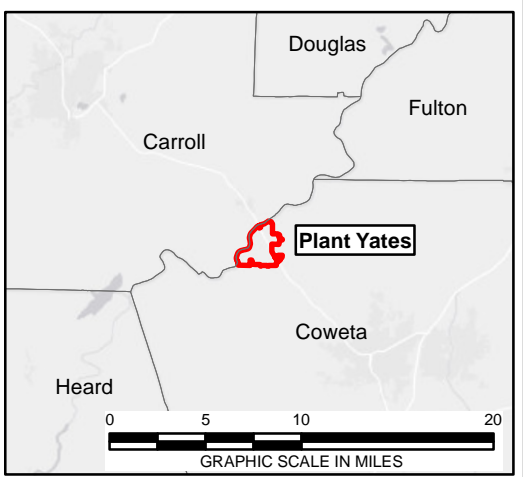
1 Introduction

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 eight miles northwest of the city of Newnan and 13 miles southeast of the city of Carrollton. Plant Yates, once a coal-fired power generation facility converted to natural gas combustion turbines, occupies approximately 2,400 acres. Dam construction activities at Georgia Power Company Plant Yates along the Chattahoochee River necessitated the abandonment of a groundwater monitoring well at Ash Pond (AP) AP-2. This report documents the abandonment of monitoring well YGWC-29I that occurred October 13-14, 2022. **Figure 1** depicts the Site location relative to the surrounding area, and **Figure 2** depicts the location of the monitoring well.

2 Abandonment Activities

Monitoring well abandonment was performed by Cascade Environmental under contract with Southern Company Services (SCS) Field Services. The abandonment activities were performed under the oversight and direction of a Georgia Registered Professional Engineer with Arcadis. Construction along the Chattahoochee River dam area required lowering the ground surface elevation where YGWC-29I was located. Bentonite chips were placed in the well to a depth of 28 feet below the top-of-casing (bTOC). The concrete pads and bollards were removed, and the following day the casing was over-drilled and cut off at a depth of 20 feet below ground surface (bgs). The hole was tremie-grouted to ground surface with a 30 percent solids bentonite grout (Aquaguard®). Well abandonment records are provided in **Appendix A**.

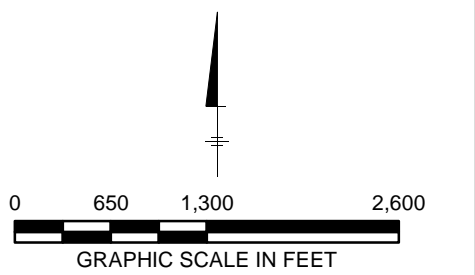
Figures





LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

NOTE:
 AERIAL IMAGE SOURCES: JANUARY 10, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.










COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

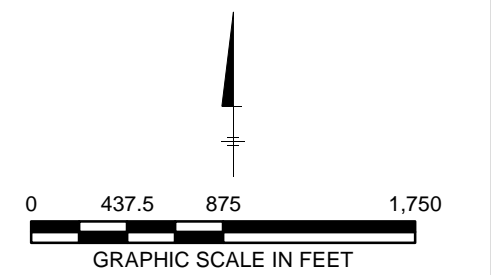
 Georgia Power PLANT YATES AP-2 NEWNAN, GA	
WELL ABANDONMENT REPORT	
SITE LOCATION MAP	
	FIGURE 1




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
-  ABANDONED MONITORING WELL
-  PERMITTED UNIT BOUNDARY

NOTE:
 AERIAL IMAGE SOURCES: JANUARY 10, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET



PLANT YATES AP-2
 NEWNAN, GA
 WELL ABANDONMENT REPORT

WELL LOCATION MAP




FIGURE
1

Appendix A

Well Abandonment Records



Well Decommissioning Record

Site Name: GPC Plant Yates

County: Coweta

Well ID: YGWC-29I

Project Number: _____

Date Installed: 10/11/2015

Date Abandoned: 10/13/22

Subcontractor: _____

Total Well Depth from TOC 39.2 (ft)

Screen Depth from TOC: 29.29 (ft)

Water Table Depth from TOC: 31.76 (ft)

Casing Diameter: 2-inch 4-inch

Screen Diameter: 2-inch 4-inch

Casing Type: Galvanized PVC Stainless Steel

Length: _____

Screen Type: Galvanized PVC Stainless Steel

Length: _____

Casing/Screen: Pulled Cut

Depth BGS: 20 (ft)

Borehole Grouted: Yes No

From 39.2 (ft) to 0 (ft)

Grout Type: Bentonite Cement

Grouting Method: Through Casing Tremie Other (explain)

Grout Type/Comments: Screen abandoned w/ chipsta 28 ft + grouted to surface. Well over drilled to 20 ft BLS.
Grouted to surface w/ 2x50lb bags Aquaguard 10/14/22

Area Resurfaced: Yes No

Resurfacing Details: _____

Crew: _____

Location Sketch: _____

Comments: _____

[Signature]
Signature of Consultant

Arcadis/Geologist
Company/Position

10/13/22
Date

Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 900
Atlanta
Georgia 30339
Phone: 770 431 8666
Fax: 770 435 2666
www.arcadis.com

Groundwater Sampling Forms

AP-2 - February 2022

February 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest / Kim Lapszynski / Jessica Ware / Khalil Carson

Instrument Calibration

Date: 02/8/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Jessica Ware & Kim Lapszynski)	YSI 556 U82097X (Kim Lapszynski)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	NA*	100
Conductivity	us/cm	1409	8000	1409	NA*	8000
pH	S.U.	4.00	4.00	4.00	NA*	4.00
pH	S.U.	7.00	7.08	7.06	NA*	7.00
pH	S.U.	10.00	10.01	9.99	NA*	10.00
ORP	mV	220.0	252.1	220.0	NA*	232.0

HACH/Geotech Standard	Units	HACH	HACH U89261X	Geotech V94550X (Kim Lapszynski)	HACH
20	NTU	20.2	9.7	NA*	20.1
100	NTU	102	20	NA*	99.6
800	NTU	801	101	NA*	803
10 / <0.10	NTU	10.3	804	NA*	10.1

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Jessica Ware)	YSI 556 U82097X (Kim Lapszynski)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	NA*	100	100
Conductivity	us/cm	1409	1413	NA*	1409	8000
pH	S.U.	4.00	4.00	NA*	4.00	4.00
pH	S.U.	7.00	7.06	NA*	7.00	7.00
pH	S.U.	10.00	10.08	NA*	10.00	10.00
ORP	mV	220.0	237.8	NA*	220.0	232.0

HACH/Geotech Standard	Units	HACH	HACH U89261X	Geotech V94550X (Kim Lapszynski)	HACH
20	NTU	--	19.7	**	--
100	NTU	--	100	**	--
800	NTU	--	794	**	--
10 / <0.10	NTU	10.2	9.88	**	10.1

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- calibration not conducted

* Equipment not available or broken

** Mid-day Calibration was conducted but data not recorded

February 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest / Kim Lapszynski / Jessica Ware / Khalil Carson

Instrument Calibration

Date: 02/9/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	YSI 556 U82097X (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100.3	100
Conductivity	us/cm	1409	1413	1409	1407	1409
pH	S.U.	4.00	4.01	4.00	3.97	4.00
pH	S.U.	7.00	7.12	7.06	7.00	7.02
pH	S.U.	10.00	10.16	10.00	9.99	10.08
ORP	mV	220.0	256.8	220.0	220.0	220.0

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech V94550X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	19.9	20.0	20.2	19.9
100	NTU	99.6	100.0	101	99.8
800	NTU	791	800.0	800	797
10 / <0.10	NTU	10.0	< 0.10	9.25	9.18

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	YSI 556 U82097X (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	99.9	NA*
Conductivity	us/cm	1409	1413	1409	1411	NA*
pH	S.U.	4.00	--	4.00	4.02	NA*
pH	S.U.	7.00	7.00	7.02	7.01	NA*
pH	S.U.	10.00	--	10.08	9.92	NA*
ORP	mV	220.0	231	220.0	220.0	NA*

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech V94550X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	--	**	19.7	NA*
100	NTU	--	**	100	NA*
800	NTU	--	**	799	NA*
10 / <0.10	NTU	10.2	**	9.87	NA*

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- calibration not conducted

* Unable to Calibration due to long purge time at midday

** Mid-day Calibration was conducted but data not recorded

February 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Kim Lapszynski / Jessica Ware / Khalil Carson

Instrument Calibration

Date: 02/11/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100
Conductivity	us/cm	1409	1409	1409	1409
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.06	7.02	7.02
pH	S.U.	10.00	10.16	10.12	10.05
ORP	mV	220.0	220.0	220.0	220.0

HACH/Geotech Standard	Units	Geotech V100820X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	20.0	20.0	19.8
100	NTU	100.0	104	99.6
800	NTU	800.0	793	788
10 / <0.10	NTU	< 0.10	9.47	10.2

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	NA*	100	NA*
Conductivity	us/cm	1409	NA*	1409	NA*
pH	S.U.	4.00	NA*	4.00	NA*
pH	S.U.	7.00	NA*	7.02	NA*
pH	S.U.	10.00	NA*	10.04	NA*
ORP	mV	220.0	NA*	220.0	NA*

HACH/Geotech Standard	Units	Geotech (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	NA*	**	NA*
100	NTU	NA*	**	NA*
800	NTU	NA*	**	NA*
10 / <0.10	NTU	NA*	**	NA*

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

-- calibration not conducted

* Half day

** Mid-day Calibration was conducted but data not recorded

February 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest / Kim Lapszynski / Jessica Ware / Khalil Carson

Instrument Calibration

Date: 02/10/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	1409	1413	1409	1409	1409
pH	S.U.	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.06	7.06	7.06	7.02
pH	S.U.	10.00	10.12	10.12	10.08	10.08
ORP	mV	220.0	246.1	252.8	220.0	220.0

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech V94550X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	19.9	20.0	19.8	20.7
100	NTU	101	100.0	101	104
800	NTU	797	800.0	799	827
10 / <0.10	NTU	10.1	< 0.10	9.35	10

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	YSI 556 100686 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	1409	1413	1406	1409	1409
pH	S.U.	4.00	--	7.00	4.00	4.00
pH	S.U.	7.00	7.00	4.00	7.02	7.02
pH	S.U.	10.00	--	9.99	10.04	10.08
ORP	mV	220.0	230	220	220.0	220.0

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	--	**	19.9	**
100	NTU	--	**	102	**
800	NTU	--	**	788	**
10 / <0.10	NTU	9.96	**	9.57	9.94

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not conducted

** Mid-day Calibration was conducted but data not recorded

Client:		Georgia Power			
Project Location:		AP-2			
Date:		2/7/2022			
Sampler:		Mark Chest			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-29I	2/7/2022	13:44:00	27.92	39.59	--
YGWC-28S	2/7/2022	13:48:00	27.88	44.95	--
YGWC-28I	2/7/2022	13:49:00	29.45	69.93	--
YGWC-27S	2/7/2022	13:53:00	29.76	40.52	--
YGWC-27I	2/7/2022	13:55:00	29.70	79.99	--
YGWC-26S	2/7/2022	14:01:00	25.36	40.18	--
YGWC-26I	2/7/2022	14:03:00	26.70	69.81	--

Client:		Georgia Power			
Project Location:		AP-2			
Date:		2/7/2022			
Sampler:		Khalil Carson			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
PZ-25S	2/7/2022	14:59:00	43.07	56.80	--
PZ-25I	2/7/2022	15:02:00	46.02	84.58	--

Client:		Georgia Power			
Project Location:		AP-2			
Date:		2/7/2022			
Sampler:		Jessica Ware			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
PZ-3S	2/7/2022	15:23:00	36.47	42.39	--
YGWA-3I	2/7/2022	15:26:00	52.35	59.05	Tall grass
YGWA-3D	2/7/2022	15:28:00	30.28	134.18	--
YGWA-2I	2/7/2022	15:37:00	44.92	63.75	Metal well label says plz
YGWA-1D	2/7/2022	15:43:00	48.94	128.85	--
PZ-1S	2/7/2022	15:45:00	32.84	36.34	--
YGWA-1I	2/7/2022	15:46:00	37.90	53.60	--
PZ-13S	2/7/2022	15:49:00	36.37	43.79	--
PZ-13I	2/7/2022	15:53:00	40.05	59.22	--

Client:		Georgia Power			
Project Location:		AP-2			
Date:		2/8/2022			
Sampler:		Khalil Carson			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-14S	2/8/2022	08:39:00	18.58	34.96	--
PZ-14I	2/8/2022	08:41:00	19.58	50.86	--
PZ-31S	2/8/2022	08:48:00	26.15	34.72	--
YGWA-30I	2/8/2022	08:55:00	43.98	59.48	--

Groundwater Sampling Form



Project Number	30052923	Well ID	YGWC-28S	Date	02/08/2022
Project Location	AP-2	Weather(°F)	53.4 degrees F and Clear. The wind is blowing N/NE at 10.3 mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	34.65	Casing Diameter (in)	2
				Well Casing Material	PVC
Static Water Level (ft-bmp)	28.05	Total Depth (ft-bmp)	44.95	Water Column(ft)	16.9
				Gallons in Well	2.75
MP Elevation	717.95	Pump Intake (ft-bmp)	40	Purge Method	Low-Flow
				Sample Method	Low-Flow
Sample Time	15:21	Well Volumes Purged	0.58	Sample ID	YGWC-28S
				Sampled by	Mark Chest
Purge Start	14:48	Gallons Purged	1.59	Replicate/ Code No.	
				Color	Clear
Purge End	15:18				

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)
14:48:00	00:00	200	28.05	6.58	348.25	18.13	6.97	17.1	24.18
14:53:00	05:00	200	28.49	6.02	416.29	34.9	1.07	18.1	-17.59
14:58:00	10:00	200	28.45	6.08	433.33	13.8	0.21	18	-53.81
15:03:00	15:00	200	28.44	6.14	436.54	8.73	0.25	18.1	-65.3
15:08:00	20:00	200	28.51	6.21	436.73	4.74	0.2	17.9	-72.75
15:13:00	25:00	200	28.53	6.25	437.44	2.62	0.16	18	-78.74
15:18:00	30:00	200	28.5	6.3	437.38	2.02	0.15	18.2	-84.47

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

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

Project Number	30052923	Well ID	YGWC-28I	Date	02/08/2022
Project Location	AP-2	Weather(°F)	54.7 degrees F and Clear. The wind is blowing N/NW at 10.3 mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	59.63	Casing Diameter (in)	2
				Well Casing Material	PVC
Static Water Level (ft-bmp)	29.25	Total Depth (ft-bmp)	69.93	Water Column(ft)	40.68
				Gallons in Well	6.61
MP Elevation	717.93	Pump Intake (ft-bmp)	64	Purge Method	Low-Flow
				Sample Method	Low-Flow
Sample Time	16:17	Well Volumes Purged	0.16	Sample ID	YGWC-28I
				Sampled by	Mark Chest
Purge Start	15:54	Gallons Purged	1.06	Replicate/ Code No.	AP-2-DUP-1
				Color	Clear
Purge End	16:14				

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)
15:54:00	00:00	200	29.25	6.31	353.83	0.06	0.27	17.8	46.04
15:59:00	05:00	200	31.35	6.34	354.42	0.83	0.18	17.9	49.81
16:04:00	10:00	200	31.41	6.37	356.04	0.53	0.18	17.8	53.09
16:09:00	15:00	200	31.48	6.37	357.02	0.42	0.19	17.8	56.4
16:14:00	20:00	200	31.35	6.36	357.82	0.29	0.19	17.5	60.75

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	4	HNO3
Metals	250mL HDPE Plastic	2	HNO3
TDS	500 mL Plastic	2	None
Cl, F, SO4	250 mL Plastic	2	None

Comments:

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



Project Number	30053438	Well ID	YGWC-27S	Date	02/08/2022
Project Location	AP-2	Weather(°F)	54.5 degrees F and Clear. The wind is blowing N/NW at 3.4 mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	30.22	Casing Diameter (in)	2
		Well Casing Material	PVC		
Static Water Level (ft-bmp)	28.79	Total Depth (ft-bmp)	40.52	Water Column(ft)	11.73
		Gallons in Well	1.91		
MP Elevation	716.52	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow
		Sample Method	Low-Flow		
Sample Time	17:37	Well Volumes Purged	1.09	Sample ID	YGWC-27S
		Sampled by	Jessica Ware		
Purge Start	17:02	Gallons Purged	2.08	Replicate/ Code No.	
		Color	Clear		
Purge End	17:52				

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)
17:02:00	00:00	250	28.79	6.11	277.81	11.4	0.39	17.9	80.47
17:07:00	05:00	250	28.91	6.21	300.41	11.22	0.18	18.1	85.78
17:12:00	10:00	250	28.84	6.23	302.34	10.84	0.18	17.9	90.85
17:17:00	15:00	200	28.83	6.25	299.67	10.46	0.22	17.1	94.46
17:22:00	20:00	200	28.85	6.22	295.48	4.58	0.26	16.6	100.69
17:27:00	25:00	200	28.85	6.22	290.04	3.61	0.31	16.5	104.39
17:32:00	30:00	200	28.85	6.21	285.17	1.66	0.34	16.3	107.99
17:37:00	35:38	200	28.85	6.22	275.05	2.88	0.4	16.6	110.18

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

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: _____
 Condition of Well: _____
 Well Completion: NA _____

Well Locked at Arrival: _____
 Well Locked at Departure: _____
 Key Number To Well: NA _____

Groundwater Sampling Form

Project Number	30052923	Well ID	YGWC-29I	Date	02/08/2022		
Project Location	AP-2	Weather(°F)	53.4 degrees F and Clear. The wind is blowing N/NE at 10.3 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.29	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	27.85	Total Depth (ft-bmp)	39.59	Water Column(ft)	11.74	Gallons in Well	1.91
MP Elevation	717.39	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:02	Well Volumes Purged	0.69	Sample ID	YGWC-29I	Sampled by	Mark Chest
Purge Start	13:34	Gallons Purged	1.32	Replicate/ Code No.		Color	Clear
Purge End	13:59						

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)
13:34:00	00:00	200	27.85	6.18	197.56	1.06	4.45	17.6	73.19
13:39:00	05:00	200	31.4	5.81	183.83	0.2	0.5	18.1	136.75
13:44:00	10:00	200	31.4	5.83	195.96	2.42	0.69	18	166.78
13:49:00	15:00	200	31.37	5.81	197.2	1.64	0.44	17.5	177.66
13:54:00	20:00	200	31.39	5.83	197.58	0.42	0.28	17.7	184.79
13:59:00	25:00	200	31.4	5.88	199.03	0.16	0.23	17.8	186.92

Constituent Sampled	Container	Number	Preservative
Metals	250mL HDPE Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments:

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



Project Number	30053438	Well ID	YGWC-26S	Date	02/10/2022
Project Location	AP-2	Weather(°F)	41 °F, Sunny, winds at mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.88	Casing Diameter (in)	2
Static Water Level (ft-bmp)	25.22	Total Depth (ft-bmp)	40.18	Water Column(ft)	14.96
MP Elevation	716.28	Pump Intake (ft-bmp)	37	Purge Method	Low-Flow
Sample Time	09:15	Well Volumes Purged	0.33	Sample ID	YGWC-26S
Purge Start	08:44	Gallons Purged	0.79	Replicate/ Code No.	
Purge End	09:33			Color	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)
08:44:00	00:00	200	25.22	5.57	284.72	4.19	4.27	16.7	205.46
08:49:00	05:00	100	27.42	5.21	276.33	1.45	0.46	17.5	197.05
08:54:00	10:00	100	27.22	5.19	277.86	0.51	0.31	16.9	192.1
08:59:00	15:00	100	27.62	5.21	277.99	0.23	0.29	17	184.59
09:04:00	20:00	100	27.46	5.27	278.1	0.2	0.27	17.1	178.08
09:09:00	25:00	100	27.46	5.31	278.3	0.58	0.24	16.5	173.89

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Ammonia, Chloride, Fluoride, Sulfate	250 mL Plastic	1	None

Comments:

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



Project Number	30053438	Well ID	YGWC-26I	Date	02/10/2022
Project Location	AP-2	Weather(°F)	45 °F, Sunny, winds at mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	59.51	Casing Diameter (in)	2
		Well Casing Material	PVC		
Static Water Level (ft-bmp)	25.71	Total Depth (ft-bmp)	69.81	Water Column(ft)	44.1
		Gallons in Well	7.17		
MP Elevation	715.91	Pump Intake (ft-bmp)	61	Purge Method	Low-Flow
		Sample Method	Low-Flow		
Sample Time	10:25	Well Volumes Purged	0.15	Sample ID	YGWC-26I
		Sampled by	Khalil Carson		
Purge Start	10:00	Gallons Purged	1.06	Replicate/ Code No.	
		Color	Clear		
Purge End	10:40				

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)
10:00:00	00:00	200	25.71	6.03	300.39	3.93	5.62	13.8	178.67
10:05:00	05:00	200	26.12	5.9	303.24	1.71	0.62	17.5	39.77
10:10:00	10:00	200	26.12	5.86	303.07	0.61	0.21	17.7	96.39
10:15:00	15:00	200	26.12	5.85	302.63	0.82	0.16	17.8	117.77
10:20:00	20:00	200	26.12	5.84	302.08	1.55	0.15	18	128.4

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,Fluoride ,Sulfate	250 mL Plastic	1	None

Comments:

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: _____
 Condition of Well: _____
 Well Completion: NA _____

Well Locked at Arrival: _____
 Well Locked at Departure: _____
 Key Number To Well: NA _____

Groundwater Sampling Form



Project Number	30053438	Well ID	YGWC-27I		Date	02/10/2022	
Project Location	AP-2	Weather(°F)	55 °F, Sunny, winds at mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.69	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	28.5	Total Depth (ft-bmp)	79.99	Water Column(ft)	51.49	Gallons in Well	8.37
MP Elevation	716.19	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:45	Well Volumes Purged	0.09	Sample ID	YGWC-27I	Sampled by	Khalil Carson
Purge Start	11:20	Gallons Purged	0.73	Replicate/ Code No.		Color	Clear
Purge End	12:12						

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)
11:20:00	00:00	100	28.5	7.56	323.39	1.47	8.49	16.5	207.74
11:25:00	05:00	150	29.13	6.24	335.68	1.5	0.73	17.9	25.48
11:30:00	10:00	150	29.24	6.23	333.01	0.54	0.29	18.1	12.27
11:35:00	15:00	150	29.3	6.25	329.64	0.47	0.25	18.2	3.84
11:40:00	20:00	150	29.3	6.23	328.73	0.46	0.2	18.2	-10.14

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,Fluoride ,Sulfate	250 mL Plastic	1	None

Comments:

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: _____
 Condition of Well: _____
 Well Completion: NA _____

Well Locked at Arrival: _____
 Well Locked at Departure: _____
 Key Number To Well: NA _____

Upgradient Wells

Groundwater Sampling Form

Project Number	30052923	Well ID	YGWA-3I	Date	02/09/2022
Project Location	AP-2	Weather(°F)	It is Clear. The wind is blowing W/SW at 3.4 mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	48.85	Casing Diameter (in)	2
Static Water Level (ft-bmp)	52.37	Total Depth (ft-bmp)	59.05	Water Column(ft)	6.68
MP Elevation	796.55	Pump Intake (ft-bmp)	54	Purge Method	Low-Flow
Sample Time	11:35	Well Volumes Purged	1.71	Sample ID	YGWA-3I
Purge Start	10:44	Gallons Purged	1.86	Replicate/ Code No.	
Purge End	11:21			Color	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)
10:44:00	00:00	150		7.79	191.72	0.55	9.33	15.5	-6.75
10:49:00	05:00	150	52.73	7.56	242.9	0	4.82	16.5	9.8
10:54:00	10:00	150	52.76	7.63	253.88	0	3.07	16.4	-12.92
10:59:00	15:00	150	52.81	7.67	247.96	0	1.77	16.5	-73.7
11:01:00	17:14	150	52.88	7.68	241.83	0	1.49	16.5	-89.6
11:06:00	22:14	150	52.94	7.71	229.42	0	1.1	16.6	-111.61
11:11:00	27:14	150	52.95	7.66	217.68	0	0.81	16.6	-119.84
11:16:00	32:14	150	52.95	7.71	209.46	0	0.67	16.5	-130.84
11:21:00	37:14	150	52.95	7.73	202.67	0	0.54	16.5	-137.96
11:26:00	42:14	150	52.95	7.75	196.59	0	0.44	16.5	-143.71
11:31:00	47:14	150	52.95	7.66	196.86	0	0.48	16.5	-140.36

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments:

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



Project Number	30052923	Well ID	YGWA-11	Date	02/09/2022		
Project Location	AP-2	Weather(°F)	57.9 degrees F and Clear. The wind is blowing W at 8.1 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	43.3	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	37.85	Total Depth (ft-bmp)	53.6	Water Column(ft)	15.75	Gallons in Well	2.56
MP Elevation	836.6	Pump Intake (ft-bmp)	49	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:45	Well Volumes Purged	0.72	Sample ID	YGWA-11	Sampled by	Kim Lapszynski
Purge Start	12:46	Gallons Purged	1.85	Replicate/ Code No.		Color	Clear
Purge End	13:43						

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)
12:46:00	00:00	250		7.54	42.71	0.98	9.62	16.4	81.1
12:51:00	05:00	250	39.57	6.68	55.57	1.12	2.25	16.3	-50.93
12:56:00	10:00	250	39.97	6.53	41.47	0.68	1.93	16.2	-47.9
13:01:00	15:00	100	40.05	6.51	39.94	0.75	1.62	16.1	-40.01
13:06:00	20:00	100	40.16	6.42	36.96	0.57	1.62	15.9	-27.95
13:11:00	25:00	100	40.28	6.32	36.37	0.37	2.49	15.8	-12.99
13:16:00	30:00	100	40.43	6.18	31.64	0.89	3.27	15.8	2.7
13:21:00	35:00	100	40.54	6.15	30.07	0.71	3.68	15.7	12.7
13:26:00	40:00	100	40.63	6.19	30.99	0.74	3.8	15.8	16.89
13:31:00	45:00	100	40.71	6.15	33.49	0.35	3.86	15.7	23.45
13:36:00	50:00	100	40.81	6.17	30.42	0.9	3.8	15.7	26.45
13:41:00	55:00	100	40.86	6.24	31.73	1.72	3.76	15.7	26

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III, IV Metals	250 mL Plastic	1	HNO3

Comments:

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



Project Number	30052923	Well ID	YGWA-2I	Date	02/09/2022
Project Location	AP-2	Weather(°F)	60.1 degrees F and Clear. The wind is blowing W/SW at 8.1 mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	53.45	Casing Diameter (in)	2
Static Water Level (ft-bmp)	44.87	Total Depth (ft-bmp)	63.75	Water Column(ft)	18.88
MP Elevation	866.25	Pump Intake (ft-bmp)	60	Purge Method	Low-Flow
Sample Time	17:35	Well Volumes Purged	0.59	Sample ID	YGWA-2I
Purge Start	15:14	Gallons Purged	1.81	Replicate/ Code No.	
Purge End	17:32			Color	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)
15:14:00	00:00	50	44.87	7.53	126.76		9.14	16.8	4.3
15:19:00	05:00	50	45.68	7.22	162.5		6.17	17.1	-9.41
15:24:00	10:00	50	46.07	7.14	185.48	2.76	3.69	16.7	-31.45
15:29:00	15:00	50	46.48	6.92	200.48	2.75	2.2	16.8	-37.18
15:34:00	20:00	50	46.87	6.7	199.52	1.55	1.58	16.6	-38.99
15:39:00	25:00	50	47.25	6.51	200.48	4.75	1.43	16.5	-36.85
15:44:00	30:00	50	47.62	6.41	197.86	2.14	1.44	16.6	-32.96
15:49:00	35:00	50	47.96	6.43	200.78	1.35	1.39	16.7	-29.86
15:54:00	40:00	50	48.26	6.39	197.61	0.65	1.53	16.9	-23.68
15:59:00	45:00	50	48.52	6.28	192.97	2.73	1.45	16.8	-17.24
16:04:00	50:00	50	48.82	6.24	189.88	1.52	1.41	16.9	-10.9
16:09:00	55:00	50	49.1	6.27	189.2	2.05	1.35	16.9	-6.22
16:14:00	00:00	50	49.4	6.23	187.16	1.97	1.38	16.9	-0.28
16:19:00	05:00	50	49.66	6.09	181.16	1.53	1.44	16.7	6
16:24:00	10:00	50	49.96	6.11	180.14	0.39	1.51	16.8	10.14
16:29:00	15:00	50	50.18	6.13	180.56	0.67	1.62	16.8	13.44
16:34:00	20:00	50	50.43	6.05	174.37	0.47	1.69	16.6	17.64
16:39:00	25:00	50	50.67	5.98	173.99	0.48	1.78	16.5	22.67
16:44:00	30:00	50	50.88	5.99	170.88	0.95	1.81	16.5	25.38
16:49:00	35:00	50	51.15	5.95	173.45	1.02	1.9	16.4	28.55
16:54:00	40:00	50	51.42	5.9	171.8	0.76	1.93	16.3	30.52
16:59:00	45:00	50	51.63	5.93	170.38	0.14	1.92	16.3	30.85
17:04:00	50:00	50	51.91	5.92	173.39	0.76	1.95	16.2	32.14
17:09:00	55:00	50	52.18	6.02	173.52	1.42	1.97	16.4	31.79
17:14:00	00:00	50	52.45	6	172.23	0.24	1.97	16.3	31.19
17:19:00	05:00	50	52.64	5.95	171.43	0.18	2.02	16.2	31.67
17:24:00	10:00	50	52.74	5.94	171.84	0.53	2	16.1	33.03
17:29:00	15:00	50	52.91	5.89	172.05	0.53	2.18	15.9	36.18
17:31:00	17:11	50		5.86	173.09	0.49	2.21	15.8	37.14

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV	250 mL Plastic	1	HNO3

Groundwater Sampling Form



Project Number	30053438	Well ID	YGWA-30I	Date	02/11/2022
Project Location	AP-2	Weather(°F)	47 °F, Clear, winds at mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.18	Casing Diameter (in)	2
Static Water Level (ft-bmp)	43.9	Total Depth (ft-bmp)	59.48	Water Column(ft)	15.58
MP Elevation	762.58	Pump Intake (ft-bmp)	54.5	Purge Method	Low-Flow
Sample Time	09:20	Well Volumes Purged	0.75	Sample ID	YGWA-30I
Purge Start	08:36	Gallons Purged	1.89	Replicate/ Code No.	
Purge End	09:26	Color	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)
08:36:00	00:00	200	43.9	6.06	56.19		7.65	15.8	221.48
08:41:00	05:00	200	43.9	5.75	42.5		6.81	16.5	191.7
08:46:00	10:00	200	43.9	5.65	41.21	0.61	6.81	16.6	192.77
08:51:00	15:00	200	43.9	5.47	40.54	0.32	6.79	16.5	197.87
08:56:00	20:00	200	43.9	5.39	39.59	0.43	6.72	16.5	198.93
09:01:00	25:00	200	43.9	5.52	39.79	0.32	6.78	16.6	192.36
09:07:00	30:41	200	43.9	5.52	39.73	0.17	6.77	16.6	191.93
09:12:00	35:41	200	43.9	5.59	39.75	0.42	6.73	16.7	188.76

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Chloride,Fluoride ,Sulfate	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Comments:

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



Project Number	30052923	Well ID	YGWA-1D		Date	02/09/2022	
Project Location	AP-2	Weather(°F)	57.9 degrees F and Clear. The wind is blowing W at 8.1 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	78.05	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	48.84	Total Depth (ft-bmp)	128.85	Water Column(ft)	80.01	Gallons in Well	13
MP Elevation	837.25	Pump Intake (ft-bmp)	108	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:45	Well Volumes Purged	0.12	Sample ID	YGWA-1D	Sampled by	Kim Lapszynski
Purge Start	14:10	Gallons Purged	1.59	Replicate/ Code No.		Color	Clear
Purge End	14:41						

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)
14:10:00	00:00	200		7.26	47.87	74.8	9.84	14.8	27.93
14:15:00	05:00	200	48.93	7.14	31.6	9.14	1.28	16.1	-52.75
14:20:00	10:00	200	48.99	7.13	66.76	5.96	0.6	16.1	-71.82
14:25:00	15:00	200	49.04	7.17	33.51	3.37	0.33	16	-86.68
14:30:00	20:00	200	49.04	7.2	30.75	3.16	0.27	16	-95.91
14:35:00	25:00	200	49.07	7.2	29.69	1.01	0.28	16	-96.24
14:40:00	30:00	200	49.09	7.12	30.84	1.27	0.3	16	-90.4

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments:

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



Project Number	30052923	Well ID	YGWA-3D	Date	02/09/2022		
Project Location	AP-2	Weather(°F)	It is Clear. The wind is blowing W/SW at 3.4 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	83.88	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	30.23	Total Depth (ft-bmp)	134.18	Water Column(ft)	103.95	Gallons in Well	16.89
MP Elevation	796.78	Pump Intake (ft-bmp)	113	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:20	Well Volumes Purged	0.05	Sample ID	YGWA-3D	Sampled by	Kim Lapszynski
Purge Start	09:51	Gallons Purged	0.91	Replicate/ Code No.		Color	Clear
Purge End	10:14						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (cm)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:51:00	00:00	150		8.52	223.85		11.02	11.6	146.52
09:57:00	05:49	150		7.72	215.15		0.57	15	-163.37
10:02:00	10:49	150	30.34	7.87	213.86		0.17	15.4	-160.88
10:07:00	15:49	150	30.35	7.94	213.95	0.36	0.11	15.7	-166.55
10:09:00	18:03	150		7.95	213.88	0.95	0.09	15.8	-169.2
10:14:00	23:03	150	30.35	7.97	213.55	0.11	0.09	15.8	-174.12

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl,F,SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments: The Water-level range during purging activities was 30.23-30.35 ft-bmp

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



Project Number	30053438	Well ID	YGWA-14S	Date	02/10/2022
Project Location	AP-2	Weather(°F)	65.8 degrees F and Clear. The wind is blowing W/SW at 6.9 mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	24.66	Casing Diameter (in)	2
				Well Casing Material	PVC
Static Water Level (ft-bmp)	18.52	Total Depth (ft-bmp)	34.96	Water Column(ft)	16.44
				Gallons in Well	2.67
MP Elevation	748.76	Pump Intake (ft-bmp)	30	Purge Method	Low-Flow
				Sample Method	Low-Flow
Sample Time	16:20	Well Volumes Purged	0.40	Sample ID	YGWA-14S
				Sampled by	Khalil Carson
Purge Start	15:53	Gallons Purged	1.06	Replicate/ Code No.	Up-DUP-2
				Color	Clear
Purge End	16:39				

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)
15:53:00	00:00	200	18.52	4.9	63.46		6.61	18.2	196.17
15:58:00	05:00	200	19.65	4.47	63.88	0.37	5.84	18.1	235.99
16:03:00	10:00	200	19.65	4.52	64.03	0.38	5.8	18.1	244.08
16:08:00	15:00	200	19.65	4.52	64.11	0.46	5.77	18.1	250.58
16:13:00	20:00	200	19.65	4.5	64.25	0.27	5.74	18.1	256.98

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	2	None
RAD Chem	1L Plastic	4	HNO3
Metals	250 mL Plastic	2	HNO3
Chloride,Fluoride ,Sulfate	250 mL Plastic	2	None

Comments:

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

Project Number	30053438	Well ID	YGWA-5D	Date	02/10/2022		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	65.8 degrees F and Clear. The wind is blowing W/NW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	78.83	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	19.52	Total Depth (ft-bmp)	129.13	Water Column(ft)	109.61	Gallons in Well	17.81
MP Elevation	784.53	Pump Intake (ft-bmp)	124	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	17:40	Well Volumes Purged	0.06	Sample ID	YGWA-5D	Sampled by	Khalil Carson
Purge Start	17:10	Gallons Purged	1.06	Replicate/ Code No.		Color	Clear
Purge End	18:21						

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)
17:10:00	00:00	200	19.52	6.70	201.38	7.53	2.33	16.4	-82.19
17:15:00	05:00	200	20.35	7.02	219.86	4.55	0.13	16.6	-128.55
17:20:00	10:00	200	20.35	7.00	208.73	2.03	0.09	16.5	-141.68
17:25:00	15:00	200	20.35	6.99	203.50	0.41	0.07	16.5	-143.96
17:30:00	20:00	200	20.35	6.99	201.44	0.04	0.06	16.4	-145.53

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Chloride,FLUORIDE , Sulfate	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Comments:

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



Project Number	30052918	Well ID	YGWA-18I	Date	02/09/2022
Project Name/Location	AMA AP-3, A, B, A		Weather(°F)	57.0 degrees F and Clear. The wind is blowing W/NW at 6.9 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.97-79.97	Casing Diameter (in)	2
Static Water Level (ft-bmp)	23	Total Depth (ft-bmp)	79.97	Water Column(ft)	56.97
MP Elevation	790.57	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow
Sample Time	14:31	Volumes Purged	0.26	Sample ID	YGWA-18I
Purge Start	14:05	Gallons Purged	2.44	Replicate/ Code No.	
Purge End	14:42				

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
14:15	0	0	250	23.31	0.66	6.00	0.097	2.43	3.54	14.81	182.6	Clear	None
14:20	5	5	250	23.38	0.99	5.98	0.095	0.70	3.51	14.93	186.9	Clear	None
14:25	5	10	250	23.37	1.32	5.98	0.095	0.52	3.52	15.13	190.1	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

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: <u>yes</u>
Condition of Well: <u>Good condition</u>	Well Locked at Departure: <u>yes</u>
Well Completion: <u>Stick-up</u>	Key Number To Well: <u>NA</u>

ft-bmp = feet below measuring point
 in = inches
 ft = feet
 mL/min = milliliters per minute
 mS/cm = milliSiemens per centimeter
 NTU = Nephelometric Turbidity Unit
 mg/L = milligrams per liter

mV = milliv

Groundwater Sampling Form



Project Number	30052923	Well ID	YGWA-5I		Date	02/10/2022		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	65.8 degrees F and Clear. The wind is blowing W/NW at 5.8 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	48.64	Casing Diameter (in)	2	Well Casing Material	PVC	
Static Water Level (ft-bmp)	17.94	Total Depth (ft-bmp)	58.94	Water Column(ft)	41	Gallons in Well	6.66	
MP Elevation	784.54	Pump Intake (ft-bmp)	53	Purge Method	Low-Flow		Sample Method	Low-Flow
Sample Time	17:43	Well Volumes Purged	0.16	Sample ID	YGWA-5I		Sampled by	Mark Chest
Purge Start	17:05	Gallons Purged	1.06	Replicate/ Code No.	UP-DUP-3		Color	Clear
Purge End	17:25							

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)
17:05:00	00:00	200	17.94	6.85	98.05	6.03	7.71	16.4	197.08
17:10:00	05:00	200	18.38	5.14	77.62	0.12	6.1	16.6	246.13
17:15:00	10:00	200	18.38	5.12	77.78	0.13	6.11	16.5	247.72
17:20:00	15:00	200	18.38	5.13	77.2	0.08	6.13	16.5	249
17:25:00	20:00	200	18.38	5.14	78.65	0.87	6.13	16.4	250.28

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	4	HNO3
TDS	1L Plastic	2	None
Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	2	None

Comments:

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: _____
 Condition of Well: _____
 Well Completion: NA _____

Well Locked at Arrival: _____
 Well Locked at Departure: _____
 Key Number To Well: NA _____

Groundwater Sampling Form



Project Number	30053438	Well ID	YGWA-4I		Date	02/11/2022		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	46.6 degrees F and Clear. The wind is blowing W/SW at 3.4 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	38.51	Casing Diameter (in)	2	Well Casing Material	PVC	
Static Water Level (ft-bmp)	22.21	Total Depth (ft-bmp)	48.81	Water Column(ft)	26.6	Gallons in Well	4.32	
MP Elevation	784.21	Pump Intake (ft-bmp)	45	Purge Method	Low-Flow		Sample Method	Low-Flow
Sample Time	10:40	Well Volumes Purged	0.21	Sample ID	YGWA-4I	Sampled by	Khalil Carson	
Purge Start	10:13	Gallons Purged	0.92	Replicate/ Code No.			Color	Clear
Purge End	10:55							

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)
10:13:00	00:00	200	22.21	5.67	113.64	2.83	7.6	13.6	206.98
10:18:00	05:00	200	25.15	6.03	141.88	0.41	1.29	15.6	187.93
10:23:00	10:00	150	26.75	5.98	131.39	0.61	1.82	15.6	188.25
10:28:00	15:00	150	26.6	5.96	130.68	0.38	1.85	15.3	189.93
10:33:00	20:00	150	26.6	5.95	130.2	0.42	1.87	15.4	190.98

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Chloride, Fluoride, Sulfate	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Comments:

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



Project Number	30052918	Well ID	YGWA-17S	Date	02/09/2022
Project Name/Location	AMA AP-3, A, B and B		Weather(°F)	Sunny, clear, 46 degrees Fahrenheit	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.65-39.65	Casing Diameter (in)	2
Static Water Level (ft-bmp)	11.7	Total Depth (ft-bmp)	39.97	Water Column(ft)	28.27
MP Elevation	783.05	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow
Sample Time	10:20	Volumes Purged	0.58	Sample ID	YGWA-17S
Purge Start	09:46	Gallons Purged	2.64	Replicate/ Code No.	
Purge End	10:36				

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
09:56	0	0	200	12.05	0.53	5.56	0.122	6.67	2.00	14.04	181.0	Clear	None
10:01	5	5	200	12.07	0.79	5.54	0.122	3.67	1.83	14.08	187.0	Clear	None
10:06	5	10	200	12.06	1.06	5.53	0.121	4.20	1.67	14.14	192.3	Clear	None
10:11	5	15	200	12.04	1.32	5.53	0.12	2.97	1.58	14.25	197.1	Clear	None
10:16	5	20	200	12.07	1.59	5.53	0.12	2.52	1.57	14.38	200.3	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

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: <u>AMA</u>	Well Locked at Arrival: <u>yes</u>
Condition of Well: <u>Good condition</u>	Well Locked at Departure: <u>yes</u>
Well Completion: <u>Stick-up</u>	Key Number To Well: <u>NA</u>

ft-bmp = feet below measuring point
 in = inches
 ft = feet
 mL/min = milliliters per minute
 mS/cm = milliSiemens per centimeter
 NTU = Nephelometric Turbidity Unit
 mg/L = milligrams per liter

mV = milliv

Groundwater Sampling Form



Project Number	30052918	Well ID	YGWA-18S	Date	02/09/2022
Project Name/Location	AMA AP-3, A, B, A		Weather(°F)	50.2 degrees F and Clear. The wind is blowing SW at 4.7 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.97-39.97	Casing Diameter (in)	2
Static Water Level (ft-bmp)	19.74	Total Depth (ft-bmp)	39.97	Water Column(ft)	20.23
MP Elevation	790.57	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow
Sample Time	12:24	Volumes Purged	0.89	Sample ID	YGWA-18S
Purge Start	11:20	Gallons Purged	2.92	Replicate/ Code No.	
Purge End	13:03				

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
11:30	0	0	150	20.21	0.40	5.51	0.067	13.5	3.71	12.46	227.8	Clear	None
11:35	5	5	150	20.23	0.59	5.41	0.067	13.4	3.04	12.98	220.8	Clear	None
11:40	5	10	100	20.14	0.73	5.35	0.068	13.7	2.32	13.23	219.9	Clear	None
11:45	5	15	100	20.06	0.86	5.31	0.068	12.5	2.26	13.17	220.8	Clear	None
11:50	5	20	100	20.09	0.99	5.29	0.067	10.3	1.88	13.15	219.7	Clear	None
11:55	5	25	100	20.13	1.12	5.30	0.068	7.97	1.87	13.30	218.0	Clear	None
12:00	5	30	100	20.12	1.25	5.30	0.068	7.46	1.80	13.48	217.3	Clear	None
12:05	5	35	100	20.11	1.39	5.30	0.068	5.99	1.82	13.59	215.2	Clear	None
12:10	5	40	100	20.14	1.52	5.29	0.068	4.62	1.80	13.67	214.3	Clear	None
12:15	5	45	100	20.12	1.65	5.29	0.068	4.33	1.85	13.69	213.2	Clear	None
12:20	5	50	100	20.10	1.78	5.28	0.068	3.23	1.77	13.68	213.6	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

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: <u>yes</u>
Condition of Well: <u>Good condition</u>	Well Locked at Departure: <u>yes</u>
Well Completion: <u>Stick-up</u>	Key Number To Well: <u>NA</u>

ft-bmp = feet below measuring point
 in = inches
 ft = feet
 mL/min = milliliters per minute
 mS/cm = milliSiemens per centimeter
 NTU = Nephelometric Turbidity Unit
 mg/L = milligrams per liter

mV = milliv

Groundwater Sampling Form



Project Number	30052916	Well ID	YGWA-39	Date	02/08/2022
Project Name/Location	GPC Yates Phase I AP-B Site		Weather(°F)	65 degrees F and Clear. The wind is blowing W/SW.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	58.09-68.09	Casing Diameter (in)	2
Static Water Level (ft-bmp)	17.62	Total Depth (ft-bmp)	68.59	Water Column(ft)	50.97
MP Elevation	818.19	Pump Intake (ft-bmp)	63	Purge Method	Low-Flow
Sample Time	14:55	Volumes Purged	0.26	Sample ID	YGWA-39
Purge Start	14:13	Gallons Purged	2.11	Replicate/ Code No.	
Purge End	14:54				

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
14:23	0	0	200	17.62	0.53	5.78	0.381	0.15	0.40	16.43	68.9	Clear	None
14:28	5	5	200	18.07	0.79	5.78	0.382	0.02	0.28	16.52	72.9	Clear	None
14:33	5	10	200	18.08	1.06	5.78	0.381	0.07	0.25	16.41	76.8	Clear	None
14:38	5	15	200	18.09	1.32	5.75	0.373	0.02	0.22	16.28	86.2	Clear	None
14:43	5	20	200	18.09	1.59	5.77	0.368	0.39	0.20	16.28	89.9	Clear	None
14:48	5	25	200	18.11	1.85	5.78	0.367	0.56	0.20	16.21	89.6	Clear	None
14:53	5	30	200	18.11	2.11	5.78	0.366	0.06	0.19	16.24	92.0	Clear	None

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments:

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: R6	Well Locked at Arrival: yes
Condition of Well: <u>Good condition</u>	Well Locked at Departure: <u>yes</u>
Well Completion: <u>Stick-up</u>	Key Number To Well: <u>NA</u>

ft-bmp = feet below measuring point
 in = inches
 ft = feet
 mL/min = milliliters per minute
 mS/cm = milliSiemens per centimeter
 NTU = Nephelometric Turbidity Unit
 mg/L = milligrams per liter

mV = milliv

Groundwater Sampling Form



Project Number	30052918	Well ID	YGWA-211	Date	02/09/2022
Project Name/Location	AMA AP-3, A, B, A		Weather(°F)	Sunny, clear, 60 degrees Fahrenheit	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.6-79.6	Casing Diameter (in)	2
Static Water Level (ft-bmp)	29.61	Total Depth (ft-bmp)	79.9	Water Column(ft)	50.29
MP Elevation	783.7	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow
Sample Time	17:40	Volumes Purged	0.46	Sample ID	YGWA-211
Purge Start	17:06	Gallons Purged	3.80	Replicate/ Code No.	
Purge End	18:21				

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
17:16	0	0	250	32.85	0.66	6.81	0.143	3.84	0.82	15.17	-50.9	Clear	None
17:21	5	5	250	33.11	0.99	6.85	0.144	2.31	0.54	15.13	-81.5	Clear	None
17:26	5	10	200	33.27	1.25	6.85	0.144	1.57	0.38	15.04	-79.2	Clear	None
17:31	5	15	175	33.34	1.49	6.85	0.144	2.27	0.36	14.99	-80.0	Clear	None
17:36	5	20	175	33.25	1.72	6.84	0.143	1.19	0.33	14.82	-86.9	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

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: <u>yes</u>
Condition of Well: <u>Good condition</u>	Well Locked at Departure: <u>yes</u>
Well Completion: <u>Stick-up</u>	Key Number To Well: <u>NA</u>

ft-bmp = feet below measuring point
 in = inches
 ft = feet
 mL/min = milliliters per minute
 mS/cm = milliSiemens per centimeter
 NTU = Nephelometric Turbidity Unit
 mg/L = milligrams per liter

mV = milliv

Groundwater Sampling Form



Project Number	30052918	Well ID	YGWA-20S	Date	02/09/2022
Project Name/Location	AMA AP-3, A, B, A		Weather(°F)	Sunny, clear, 62 degrees Fahrenheit	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	19.22-29.52	Casing Diameter (in)	2
Static Water Level (ft-bmp)	11.02	Total Depth (ft-bmp)	29.52	Water Column(ft)	18.5
MP Elevation	767.12	Pump Intake (ft-bmp)	24.5	Purge Method	Low-Flow
Sample Time	16:19	Volumes Purged	1.19	Sample ID	YGWA-20S
Purge Start	15:35	Gallons Purged	3.59	Replicate/ Code No.	
Purge End	16:38				

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
15:45	0	0	250	11.78	0.66	5.96	0.047	19.3	7.42	14.69	252.1	Clear	None
15:50	5	5	250	11.75	0.99	5.94	0.047	11.6	7.18	14.67	236.3	Clear	None
15:55	5	10	250	11.77	1.32	5.93	0.047	9.03	7.16	14.65	228.2	Clear	None
16:00	5	15	200	11.64	1.59	5.93	0.046	6.99	6.90	14.65	223.0	Clear	None
16:05	5	20	200	11.49	1.85	5.91	0.045	4.05	6.98	14.38	222.3	Clear	None
16:10	5	25	200	11.42	2.11	5.91	0.045	3.40	6.93	14.33	220.7	Clear	None
16:15	5	30	200	11.41	2.38	5.91	0.045	3.55	6.89	14.22	220.0	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

Comments:

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: <u>yes</u>
Condition of Well: <u>Good condition</u>	Well Locked at Departure: <u>yes</u>
Well Completion: <u>Stick-up</u>	Key Number To Well: <u>NA</u>

ft-bmp = feet below measuring point
 in = inches
 ft = feet
 mL/min = milliliters per minute
 mS/cm = milliSiemens per centimeter
 NTU = Nephelometric Turbidity Unit
 mg/L = milligrams per liter

mV = milliv

Groundwater Sampling Form



Project Number	30052923	Well ID	YGWA-47	Date	02/08/2022
Project Location	AP-1	Weather(°F)	53.4 degrees F and Clear. The wind is blowing N/NE at 10.3 mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.4	Casing Diameter (in)	2
				Well Casing Material	PVC
Static Water Level (ft-bmp)	34.8	Total Depth (ft-bmp)	59.19	Water Column(ft)	24.39
				Gallons in Well	3.96
MP Elevation	758.22	Pump Intake (ft-bmp)	54	Purge Method	Low-Flow
				Sample Method	Low-Flow
Sample Time	11:40	Well Volumes Purged	0.40	Sample ID	YGWA-47
				Sampled by	Mark Chest
Purge Start	11:12	Gallons Purged	1.59	Replicate/ Code No.	
				Color	Clear
Purge End	11:37				

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)
11:12:00	00:00	200	34.8	5.15	193.83		2.88	17.3	238.85
11:17:00	05:00	200	35.55	5.24	195.95		2.87	17	241.34
11:22:00	10:00	200	35.55	5.3	197.08	0.8	2.93	17.1	240.91
11:27:00	15:00	200	35.55	5.38	196.93	0.22	2.95	17.1	238.23
11:32:00	20:00	200	35.55	5.42	197.63	0.22	2.86	17	237.76
11:37:00	25:00	200	35.55	5.4	197.93	0.19	2.82	17.2	239.78
11:42:00	30:00	200	35.55	5.53	201	0.37	2.95	18.2	229.25

Constituent Sampled	Container	Number	Preservative
Metals	250mL HDPE Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Wet Chem Non Metals	250 mL Plastic	1	None

Comments:

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



Project Number	30053438	Well ID	GWA-2	Date	02/08/2022		
Project Location	Gypsum Landfill		Weather(°F)	38.8 degrees F and Clear. The wind is blowing N at 11.4 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	42.1	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	36.42	Total Depth (ft-bmp)	52.13	Water Column(ft)	15.71	Gallons in Well	2.55
MP Elevation	805.62	Pump Intake (ft-bmp)	47	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:45	Well Volumes Purged	0.26	Sample ID	GWA-2	Sampled by	Khalil Carson
Purge Start	10:14	Gallons Purged	0.66	Replicate/ Code No.	UP-DUP-1	Color	Clear
Purge End	10:40						

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)
10:14:00	00:00	100	36.42	5.84	450.71		1.28	15	181.1
10:19:00	05:00	100	37.25	5.8	427.58	2.88	1.18	15.1	184.46
10:24:00	09:56	100	37.4	5.8	420.36	2.7	1.04	15.2	184.8
10:29:00	14:56	100	37.52	5.82	417.21	1.81	0.93	15.4	179.34
10:34:00	19:56	100	37.45	5.83	415.26	1.05	0.95	14.5	178.52
10:39:00	24:56	100	37.45	5.83	414.33	0.85	0.97	14.5	174.43

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	2	None
RAD Chem	1L Plastic	4	HNO3
Metals	250 mL Plastic	2	HNO3
Chloride, Fluoride, Sulfate	250 mL Plastic	2	None

Comments:

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



Project Number	30052916	Well ID	YGWA-40	Date	02/08/2022
Project Name/Location	GPC Yates Phase I AP-B Site		Weather(°F)	50.7 degrees F and Clear. The wind is blowing N/NE at 10.3 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	37.73-47.73	Casing Diameter (in)	2
Static Water Level (ft-bmp)	22.72	Total Depth (ft-bmp)	48.23	Water Column(ft)	25.51
MP Elevation	815.73	Pump Intake (ft-bmp)	42	Purge Method	Low-Flow
Sample Time	13:22	Volumes Purged	0.38	Sample ID	YGWA-40
Purge Start	12:49	Gallons Purged	1.59	Replicate/ Code No.	
Purge End	13:38				

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:59	0	0	200	23.91	0.53	5.35	0.124	1.31	1.06	15.73	206.9	Clear	None
13:04	5	5	200	23.94	7.93	5.34	0.123	0.35	0.85	15.77	211.4	Clear	None
13:09	5	10	200	23.97	10.57	5.30	0.119	0.02	0.73	15.72	211.6	Clear	None
13:14	5	15	200	23.97	1.32	5.29	0.118	0.44	0.60	15.81	211.1	Clear	None
13:19	5	20	200	23.98	1.59	5.26	0.118	0.02	0.53	15.75	211.7	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	500 mL Plastic	1	HNO3

Comments:

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: R6 Ash Disposal Area	Well Locked at Arrival: <u>yes</u>
Condition of Well: <u>Good condition</u>	Well Locked at Departure: <u>yes</u>
Well Completion: <u>Stick-up</u>	Key Number To Well: <u>NA</u>

ft-bmp = feet below measuring point
 in = inches
 ft = feet
 mL/min = milliliters per minute
 mS/cm = milliSiemens per centimeter
 NTU = Nephelometric Turbidity Unit
 mg/L = milligrams per liter

mV = milliv

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-29I					
Person Gauging: Mark Chest					
Date: 2/7/2022					
Time: 13:44:00					
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 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 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

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-28S					
Person Gauging: Mark Chest					
Date: 2/7/2022					
Time: 13:48:00					
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 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 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:					
None					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-28I			
Person Gauging:		Mark Chest			
Date:		2/7/2022			
Time:		13:49:00			
			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 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 checked="" type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input 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:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-27S			
Person Gauging:		Mark Chest			
Date:		2/7/2022			
Time:		13:53:00			
			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 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 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:				
	None				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-271					
Person Gauging: Mark Chest					
Date: 2/7/2022					
Time: 13:55:00					
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 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 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:					
None					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-26S					
Person Gauging: Mark Chest					
Date: 2/7/2022					
Time: 14:01:00					
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 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 checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input 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:					
None					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-26I			
Person Gauging:		Mark Chest			
Date:		2/7/2022			
Time:		14:03:00			
			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 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 checked="" type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input 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:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-25S			
Person Gauging:		Khalil Carson			
Date:		2/7/2022			
Time:		14:59:00			
			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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-25I			
Person Gauging:		Khalil Carson			
Date:		2/7/2022			
Time:		15:02:00			
			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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: PZ-3S					
Person Gauging: Jessica Ware					
Date: 2/7/2022					
Time: 15:23:00					
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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input 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:				
	Tall grass				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-1S			
Person Gauging:		Jessica Ware			
Date:		2/7/2022			
Time:		15:45:00			
			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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input 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:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-13S			
Person Gauging:		Jessica Ware			
Date:		2/7/2022			
Time:		15:49:00			
			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 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input 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:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-13I			
Person Gauging:		Jessica Ware			
Date:		2/7/2022			
Time:		15:53:00			
			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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input 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:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-14I			
Person Gauging:		Khalil Carson			
Date:		2/8/2022			
Time:		08:41:00			
			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

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-31S			
Person Gauging:		Khalil Carson			
Date:		2/8/2022			
Time:		08:48:00			
			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 checked="" type="checkbox"/>	<input 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

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-30I					
Person Gauging: Khalil Carson					
Date: 2/8/2022					
Time: 08:55:00					
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 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 type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input 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:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-14S					
Person Gauging: Khalil Carson					
Date: 2/8/2022					
Time: 08:39:00					
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

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-11			
Person Gauging:		Jessica Ware			
Date:		2/7/2022			
Time:		15:46:00			
			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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input 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:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-3I			
Person Gauging:		Jessica Ware			
Date:		2/7/2022			
Time:		15:26:00			
			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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input 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:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-3D			
Person Gauging:		Jessica Ware			
Date:		2/7/2022			
Time:		15:28:00			
			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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input 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:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-2I					
Person Gauging: Jessica Ware					
Date: 2/7/2022					
Time: 15:37:00					
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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input 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:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-1D					
Person Gauging: Jessica Ware					
Date: 2/7/2022					
Time: 15:43:00					
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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input 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:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-4I				
Person Gauging: Jessica Ware				
Date: 2/7/2022				
Time: 11:16:00				
		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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input 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

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-5D					
Person Gauging: Jessica Ware					
Date: 2/7/2022					
Time: 11:34:00					
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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input 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:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-20S				
Person Gauging: Jessica Ware				
Date: 2/7/2022				
Time: 11:44:00				
		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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input 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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-5I					
Person Gauging: Jessica Ware					
Date: 2/7/2022					
Time: 11:32:00					
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 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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input 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:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-211					
Person Gauging: Jessica Ware					
Date: 2/7/2022					
Time: 11:53:00					
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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input 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:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-17S				
Person Gauging: Jessica Ware				
Date: 2/7/2022				
Time: 12:25:00				
		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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input 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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-18I				
Person Gauging: Jessica Ware				
Date: 2/7/2022				
Time: 12:35:00				
		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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input 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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-18S					
Person Gauging: Jessica Ware					
Date: 2/7/2022					
Time: 12:39:00					
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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input 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:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill				
Permit Number:				
Well ID: YGWA-40				
Person Gauging: Jessica Ware				
Date: 2/7/2022				
Time: 14:00:00				
		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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input 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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWA-39					
Person Gauging: Jessica Ware					
Date: 2/7/2022					
Time: 14:05:00					
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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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 type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input 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:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWA-2					
Person Gauging: Mark Chest					
Date: 2/7/2022					
Time: 11:05:00					
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 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 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:					
None					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-1			
Permit Number:					
Well ID:		YGWA-47			
Person Gauging:		Mark Chest			
Date:		2/7/2022			
Time:		12:32:00			
			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 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 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:				

AP-2 August/September 2022

August 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/ Khalil Carson/ Jake Swanson/ David Prouty

Instrument Calibration

Date: 08/30/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 870001 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1413	1413	1409	1413	1409	1409
pH	S.U.	4.00	4.00	4.01	4.01	4.00	4.01
pH	S.U.	7.00	7.00	6.99	6.99	7.00	7.00
pH	S.U.	10.00	10.00	9.95	9.95	10.00	10.00
ORP	mV	220.0	220.0	220.0	220.0	228.3	226.8

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	20.8	19.8	19.7	0.02	19.8
Turbidity	NTU	100	101	100	101	20.0	101
Turbidity	NTU	800	799	802	813	100	806
Turbidity	NTU	<0.10	0.08	0.02	0.02	801	0.1

Date: 08/30/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1409	1419	1409	1413	1409	1409
pH	S.U.	4.00	4.01	4.02	4.01	4.01	4.02
pH	S.U.	7.00	6.99	6.98	6.99	6.99	6.98
pH	S.U.	10.00	9.95	9.91	9.95	9.95	9.95
ORP	mV	220.0	220.0	220.0	220.0	220.0	220.2

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	20.0	19.8	19.7	0.02	--
Turbidity	NTU	100	98.2	100	98.8	20.0	--
Turbidity	NTU	800	793	804	796	100	--
Turbidity	NTU	<0.10	0.02	0.02	0.02	801	--

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not performed

* Half day

August 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/ Khalil Carson/ Jake Swanson/ David Prouty

Instrument Calibration

Date: 08/31/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1413	1413	1409	1413	1409	1409
pH	S.U.	4.00	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.05	10.00	10.00	10.00
ORP	mV	220.0	220.0	220.0	220.0	220.0	232.0

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	21.0	19.6	20.5	0.02	19.9
Turbidity	NTU	100	101	101	102	20.0	109
Turbidity	NTU	800	813	800	806	100	804
Turbidity	NTU	<0.10	0.02	0.02	0.04	801	0.02

Date: 08/31/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 870001 (David Prouty)
DO	% saturation	100	NA*	100	100	100	100
Conductivity	us/cm	1409	NA*	1409	1413	1409	1409
pH	S.U.	4.00	NA*	4.01	4.01	4.02	4.01
pH	S.U.	7.00	NA*	6.98	6.99	6.98	6.99
pH	S.U.	10.00	NA*	9.95	9.95	9.91	9.97
ORP	mV	220.0	NA*	220.0	220.0	220.0	223.3

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	NA*	19.5	18.9	0.02	--
Turbidity	NTU	100	NA*	99.9	99.1	20.0	--
Turbidity	NTU	800	NA*	796	792	100	--
Turbidity	NTU	<0.10	NA*	0.02	0.02	801	--

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not performed

* Half day

August 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/ Khalil Carson/ Jake Swanson/ David Prouty

Instrument Calibration

Date: 09/01/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1413	1413	1409	1413	1409	1409
pH	S.U.	4.00	4.00	4.00	4.01	4.00	4.00
pH	S.U.	7.00	7.00	7.00	6.99	7.02	7.02
pH	S.U.	10.00	10.00	10.00	9.95	10.05	10.05
ORP	mV	220.0	220.0	220.0	220.0	220.0	233.9

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	20.4	20.3	20.7	0.02	19.8
Turbidity	NTU	100	101	100	101	20.0	103
Turbidity	NTU	800	803	801	803	100	802
Turbidity	NTU	<0.10	0.02	0.02	0.09	801	0.02

Date: 09/01/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	NA*	100	100	100	NA*
Conductivity	us/cm	1409	NA*	1409	1413	1409	NA*
pH	S.U.	4.00	NA*	4.01	4.01	4.01	NA*
pH	S.U.	7.00	NA*	6.99	6.99	6.99	NA*
pH	S.U.	10.00	NA*	10.00	9.95	9.95	NA*
ORP	mV	220.0	NA*	220.0	220.0	220.0	NA*

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	NA*	20.3	19.8	0.02	NA*
Turbidity	NTU	100	NA*	101	97.3	20.0	NA*
Turbidity	NTU	800	NA*	806	797	100	NA*
Turbidity	NTU	<0.10	NA*	0.02	0.02	801	NA*

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not performed

* Half day

Client:		Georgia Power			
Project Location:		AP-2			
Date:		8/29/2022			
Sampler:		Jake Swanson			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-26S	8/29/2022	11:13:00	27.64	40.18	--
YGWC-26I	8/29/2022	11:23:00	27.78	69.81	--
YGWC-27I	8/29/2022	11:59:00	30.66	79.99	--
YGWC-27S	8/29/2022	11:59:00	30.75	40.52	--
YGWC-28I	8/29/2022	12:08:00	30.26	69.93	--
YGWC-28S	8/29/2022	12:09:00	29.40	44.95	--
YGWC-29I	8/29/2022	12:14:00	30.01	39.59	--
PZ-25I	8/29/2022	12:25:00	50.17	84.58	--
PZ-25S	8/29/2022	12:31:00	46.48	56.80	--
PZ-14I	8/29/2022	12:37:00	21.04	50.86	--
YGWA-14S	8/29/2022	12:39:00	20.18	34.96	--
YGWA-30I	8/29/2022	12:49:00	43.83	59.48	--
PZ-31S	8/29/2022	12:58:00	30.34	34.72	--

Client:		Georgia Power			
Project Location:		AP-2			
Date:		8/29/2022			
Sampler:		Jessica Ware			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
PZ-3S	8/29/2022	10:44:00	35.47	42.39	--
YGWA-3I	8/29/2022	11:06:00	53.39	59.05	--
YGWA-3D	8/29/2022	11:08:00	30.43	134.18	--
PZ-13S	8/29/2022	11:09:00	36.41	43.79	--
PZ-13I	8/29/2022	11:24:00	41.19	59.22	--
YGWA-1D	8/29/2022	11:25:00	49.37	128.85	--
PZ-1S	8/29/2022	11:30:00	32.20	36.34	--
YGWA-1I	8/29/2022	11:32:00	37.21	53.60	--
YGWA-2I	8/29/2022	11:36:00	44.49	63.75	--

Groundwater Sampling Form

Updated : 9/1/2022 3:43:25 PM - 04:00

Project Number	30053438	Well ID	YGWC-26I	Date	08/31/2022		
Project Location	AP-2	Weather(°F)	86.9 degrees F and Clear. The wind is blowing N/NW at 6.9 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	59.51	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	27.89	Total Depth (ft-bmp)	69.81	Water Column(ft)	41.92	Gallons in Well	6.81
MP Elevation	715.91	Pump Intake (ft-bmp)	61	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	17:40	Well Volumes Purged	0.27	Sample ID	YGWC-26I	Sampled by	Khalil Carson
Purge Start	17:03	Gallons Purged	1.85	Replicate/ Code No.		Color	Clear
Purge End	18:14						

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)
17:03:00	00:00	200	91.50262	6.33	302.91		7.57	30.1	165.76
17:08:00	05:00	200	27.98	6.09	311.98	2.62	5.82	27.3	32.20
17:13:00	10:00	200	27.98	5.89	313.75	1.74	3.04	26.2	-16.01
17:18:00	15:00	200	27.98	5.81	316.13	1.31	1.60	25.9	4.62
17:23:00	20:00	200	27.98	5.80	316.60	1.04	1.13	25.5	59.61
17:28:00	25:00	200	27.98	5.79	316.57	0.15	1.01	25.7	99.45
17:33:00	30:00	200	27.98	5.78	316.48	0.02	0.92	25.6	120.11
17:38:00	35:00	200	27.98	5.77	316.53	0.02	0.83	25.7	132.82

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
CL,F,SO4	250 mL Plastic	1	None

Comments: -

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 : 9/1/2022 3:43:26 PM - 04:00

Project Number	30053438	Well ID	YGWC-27I	Date	09/01/2022		
Project Location	AP-2	Weather(°F)	69.3 degrees F and Clear. The wind is blowing undefined at 0.0 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.69	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	30.6	Total Depth (ft-bmp)	79.99	Water Column(ft)	49.39	Gallons in Well	8.03
MP Elevation	716.19	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:25	Well Volumes Purged	0.15	Sample ID	YGWC-27I	Sampled by	Khalil Carson
Purge Start	08:51	Gallons Purged	1.19	Replicate/ Code No.		Color	Clear
Purge End	09:53						

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)
08:51:00	00:00	150	30.6	7.37	336.68		8.24	23.1	148.48
08:56:00	05:00	150	30.9	6.34	330.56	0.02	3.38	20.9	42.46
09:01:00	10:00	150	30.93	6.22	334.66	0.47	1.34	20.1	0.43
09:06:00	15:00	150	30.95	6.18	339.03	0.02	0.84	20.0	-9.52
09:11:00	20:00	150	30.95	6.16	341.89	0.40	0.64	20.0	-15.73
09:16:00	25:00	150	30.95	6.15	339.59	0.14	0.55	19.9	-20.22
09:21:00	30:00	150	30.95	6.13	337.18	0.02	0.49	19.9	-25.29

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Cl,F,SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: -

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 : 9/2/2022 9:55:13 AM - 04:00

Project Number	30053438	Well ID	YGWC-29I	Date	09/01/2022		
Project Location	AP-2	Weather(°F)	86.5 degrees F and Partly Cloudy. The wind is blowing SE at 3.4 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.29	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	30.13	Total Depth (ft-bmp)	39.59	Water Column(ft)	9.46	Gallons in Well	1.54
MP Elevation	717.39	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:40	Well Volumes Purged	0.51	Sample ID	YGWC-29I	Sampled by	Khalil Carson
Purge Start	14:16	Gallons Purged	0.79	Replicate/ Code No.	Ap-2-fb-2	Color	Clear
Purge End	15:16						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (cm)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:16:00	00:00	150	3013	6.01	235.14		2.70	22.5	191.91
14:21:00	05:00	150	30.78	6.02	235.46	4.79	1.33	22.4	183.80
14:26:00	10:00	150	30.8	5.95	238.87	3.62	1.00	23.7	186.26
14:31:00	15:00	150	30.82	5.97	240.30	1.99	0.91	24.4	186.10
14:36:00	20:00	150	30.82	6.05	240.72	0.86	0.86	24.5	185.73

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
CL,F,SO4	250 mL Plastic	1	None

Comments: -

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 : 9/2/2022 9:55:15 AM - 04:00

Project Number	30053438	Well ID	YGWC-27S	Date	09/01/2022		
Project Location	AP-2	Weather(°F)	Sunny 80				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	30.22	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	30.76	Total Depth (ft-bmp)	40.52	Water Column(ft)	9.76	Gallons in Well	1.59
MP Elevation	716.52	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:30	Well Volumes Purged	0.75	Sample ID	YGWC-27S	Sampled by	Khalil Carson
Purge Start	09:57	Gallons Purged	1.18	Replicate/ Code No.		Color	Clear
Purge End	11:00						

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)
09:57:00	00:00	150	100.9186	5.88	265.86		3.95	21.5	122.27
10:02:00	04:54	150	30.81	5.86	257.61	4.44	2.88	22.8	126.54
10:07:00	09:54	150	30.84	5.90	249.97	3.99	2.00	23.3	129.01
10:12:00	14:54	150	30.84	6.04	245.81	3.64	1.12	22.4	129.14
10:17:00	19:54	150	30.84	6.07	247.04	2.33	0.77	22.3	134.07
10:22:00	24:54	150	30.84	6.08	247.62	1.48	0.61	22.4	136.93
10:27:00	29:54	150	30.84	6.13	248.71	0.89	0.59	22.6	135.78

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
CL,F,SO4	250 mL Plastic	1	None

Comments: -

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 : 9/9/2022 12:08:12 PM
-04:00

Project Number	30053438	Well ID	YGWC-28I	Date	09/01/2022		
Project Location	AP-2	Weather(°F)	80.4 degrees F and Clear. The wind is blowing E/NE at 3.4 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	59.63	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	30.25	Total Depth (ft-bmp)	69.93	Water Column(ft)	39.68	Gallons in Well	6.45
MP Elevation	717.93	Pump Intake (ft-bmp)	64	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:40	Well Volumes Purged	0.12	Sample ID	YGWC-28I	Sampled by	Khalil Carson
Purge Start	11:15	Gallons Purged	0.79	Replicate/ Code No.	Ap-2-dup-01	Color	Clear
Purge End	12:59						

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)
11:15:00	00:00	150	30.26	6.53	366.62		5.03	24.4	126.17
11:20:00	05:00	150	30.85	6.49	334.82	0.02	2.27	23.5	102.81
11:25:00	10:00	150	30.92	6.43	323.91	0.02	1.43	23.5	111.46
11:30:00	15:00	150	30.92	6.43	321.48	0.42	1.32	23.7	117.89
11:35:00	20:00	150	30.92	6.41	320.14	0.37	1.27	24.0	124.66

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
CL,F,SO4	250 mL Plastic	1	None

Comments: -

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 : 9/9/2022 12:14:12 PM
-04:00

Project Number	30053438	Well ID	YGWC-28S	Date	09/01/2022		
Project Location	AP-2	Weather(°F)	72.5 degrees F and Clear. The wind is blowing SE at 10.3 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	34.65	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	29.47	Total Depth (ft-bmp)	44.95	Water Column(ft)	15.48	Gallons in Well	2.52
MP Elevation	717.95	Pump Intake (ft-bmp)	40	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	17:55	Well Volumes Purged	1.34	Sample ID	YGWC-28S	Sampled by	Khalil Carson
Purge Start	16:19	Gallons Purged	3.37	Replicate/ Code No.	Ap-2-Eb-02-	Color	Clear
Purge End	18:36						

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)
16:19:00	00:00	150	96.68635	6.41	448.14		2.71	26.2	-25.13
16:24:00	05:00	150	29.55	6.51	462.04	38.30	1.47	27.5	-46.65
16:29:00	10:00	150	29.55	6.51	465.72	30.30	1.32	27.6	-48.70
16:34:00	15:00	150	29.55	6.56	475.00	19.90	1.09	27.4	-53.61
16:39:00	20:00	150	29.55	6.56	476.64	17.70	0.95	26.8	-56.94
16:44:00	25:00	150	29.55	6.58	476.15	14.20	0.88	26.7	-58.25
16:49:00	30:00	150	29.55	6.60	476.73	11.20	0.87	26.6	-59.31
16:54:00	35:00	150	29.55	6.62	476.82	11.50	0.84	26.5	-59.77
16:59:00	40:00	150	29.55	6.59	477.79	9.68	0.81	26.5	-59.07
17:04:00	45:00	150	29.55	6.61	477.26	11.60	0.80	26.1	-60.19
17:09:00	50:00	150	29.55	6.62	477.25	11.70	0.81	26.0	-61.01
17:14:00	55:00	150	29.55	6.62	477.26	11.50	0.81	26.1	-61.44
17:19:00	00:00	150	29.55	6.62	476.91	9.24	0.79	26.0	-61.36
17:24:00	05:00	150	29.55	6.58	473.81	8.25	0.79	26.1	-59.90
17:29:00	10:00	150	29.55	6.59	476.44	6.27	0.80	25.9	-60.45
17:34:00	15:00	150	29.55	6.60	476.52	4.92	0.80	25.8	-61.37
17:39:00	20:00	150	29.55	6.60	477.92	4.83	0.78	25.9	-62.17
17:44:00	25:00	150	29.55	6.59	477.81	4.11	0.78	25.8	-62.30

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
CL,F,SO4	250 mL Plastic	1	None

Groundwater Sampling Form



Comments: -

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 : 9/9/2022 12:14:13 PM
-04:00

Project Number	30053438	Well ID	YGWC-26S	Date	08/31/2022		
Project Location	AP-2	Weather(°F)	70.0 degrees F and Drizzle. The wind is blowing E at 8.1 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.88	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	27.65	Total Depth (ft-bmp)	40.18	Water Column(ft)	12.53	Gallons in Well	2.04
MP Elevation	716.28	Pump Intake (ft-bmp)	37	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:15	Well Volumes Purged	0.55	Sample ID	YGWC-26S	Sampled by	Khalil Carson
Purge Start	15:43	Gallons Purged	1.12	Replicate/ Code No.	Ap-2-FB-1 1645 ap-2-eb-01	Color	Clear
Purge End	16:41						

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)
15:43:00	00:00	160	90.71523	5.49	284.55		7.89	29.4	193.88
15:48:00	05:00	160	28.23	5.51	293.28	0.02	2.68	24.9	183.24
15:50:00	07:16	160	28.23	5.59	295.54	0.76	1.62	24.6	192.05
15:52:00	08:41	160	28.23	5.61	294.33	0.33	1.38	23.9	186.47
15:57:00	13:41	160	28.41	5.62	295.24	0.02	1.04	23.9	187.75
16:00:00	16:34	160	28.45	5.57	295.14		0.93	24.5	216.11
16:05:00	21:34	160	28.47	5.61	292.98		0.94	23.8	198.90
16:10:00	26:34	160	28.47	5.61	293.33		0.90	23.8	198.61

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
CL,F,SO4	250 mL Plastic	1	None

Comments: -

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 Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-26S					
Person Gauging: Jake Swanson					
Date: 8/29/2022					
Time: 11:13:00					
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:					
	Cut vegetation				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-26I					
Person Gauging: Jake Swanson					
Date: 8/29/2022					
Time: 11:23:00					
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:					
	Cut vegetation				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-271			
Person Gauging:		Jake Swanson			
Date:		8/29/2022			
Time:		11:59:00			
			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

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-27S			
Person Gauging:		Jake Swanson			
Date:		8/29/2022			
Time:		11:59:00			
			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

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-28I			
Person Gauging:		Jake Swanson			
Date:		8/29/2022			
Time:		12:08:00			
			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

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWC-28S			
Person Gauging:		Jake Swanson			
Date:		8/29/2022			
Time:		12:09:00			
			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

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-29I					
Person Gauging: Jake Swanson					
Date: 8/29/2022					
Time: 12:14:00					
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

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-25I			
Person Gauging:		Jake Swanson			
Date:		8/29/2022			
Time:		12:25:00			
			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

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-25S			
Person Gauging:		Jake Swanson			
Date:		8/29/2022			
Time:		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

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-14I			
Person Gauging:		Jake Swanson			
Date:		8/29/2022			
Time:		12:37:00			
			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:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-31S			
Person Gauging:		Jake Swanson			
Date:		8/29/2022			
Time:		12:58:00			
			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:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-13S			
Person Gauging:		Jessica Ware			
Date:		8/29/2022			
Time:		11:09:00			
			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

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-13I			
Person Gauging:		Jessica Ware			
Date:		8/29/2022			
Time:		11:24:00			
			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

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-1S			
Person Gauging:		Jessica Ware			
Date:		8/29/2022			
Time:		11:30:00			
			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

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-3S			
Person Gauging:		Jessica Ware			
Date:		8/29/2022			
Time:		10:44:00			
			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:				

Upgradient Wells

Groundwater Sampling Form

Updated : 8/31/2022 7:46:53 PM
-04:00

Project Number	30053438	Well ID	YGWA-4I	Date	08/31/2022		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	80 °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	38.51	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	23.95	Total Depth (ft-bmp)	48.81	Water Column(ft)	24.86	Gallons in Well	4.04
MP Elevation	784.21	Pump Intake (ft-bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:37	Well Volumes Purged	0.39	Sample ID	YGWA-4I	Sampled by	Jessica Ware
Purge Start	14:54	Gallons Purged	1.59	Replicate/ Code No.		Color	Clear
Purge End	16:09						

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)
14:54:00	00:00	150	23.95	7.44	130.83	1.30	7.32	22.7	171.68
14:59:00	05:00	150	24.59	5.76	135.49	0.75	6.11	21.8	192.79
15:04:00	10:00	150	24.56	5.61	146.32	0.40	4.64	21.7	192.23
15:09:00	15:00	150	24.58	5.60	148.00	0.18	3.90	21.0	194.40
15:14:00	20:00	150	24.61	5.58	145.41	0.18	4.00	20.7	205.39
15:19:00	25:00	150	24.61	5.59	146.24	0.10	5.83	20.4	210.12
15:24:00	30:00	150	24.59	5.54	146.21	0.39	2.02	19.6	202.49
15:29:00	35:00	150	24.63	5.50	146.96	0.27	1.95	19.7	205.75
15:34:00	40:00	150	24.64	5.50	146.94	0.22	1.95	19.6	207.02

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250mL HDPE Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Sampled

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 : 8/30/2022 11:20:20
AM -04:00

Project Number	30053438	Well ID	YGWA-5I	Date	08/30/2022
Project Location	AMA AP-3, A, B and B'		Weather(°F)	72.9 degrees F and Fog/Mist. The wind is blowing undefined at 0.0 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	48.64	Casing Diameter (in)	2
				Well Casing Material	PVC
Static Water Level (ft-bmp)	20.65	Total Depth (ft-bmp)	58.94	Water Column(ft)	38.29
				Gallons in Well	6.22
MP Elevation	784.54	Pump Intake (ft-bmp)	53	Purge Method	Low-Flow
				Sample Method	Low-Flow
Sample Time	10:52	Well Volumes Purged	0.26	Sample ID	YGWA-5I
				Sampled by	Mark Chest
Purge Start	10:19	Gallons Purged	1.60	Replicate/ Code No.	
				Color	Clear
Purge End	10:49				

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)
10:19:00	00:00	200	20.65	5.66	85.76		6.54	18.0	201.34
10:19:00	00:20	200	20.65	5.36	82.81		6.50	17.4	210.79
10:24:00	05:20	200	21.65	4.90	82.41	0.55	6.13	17.1	232.62
10:29:00	10:20	200	21.66	4.75	81.15	0.92	6.12	17.1	243.71
10:34:00	15:20	200	21.65	4.82	82.39	1.03	6.19	17.2	240.12
10:39:00	20:20	200	21.65	5.05	82.15	1.72	6.16	17.3	233.32
10:44:00	25:20	200	21.67	5.01	82.90	0.43	6.17	17.4	238.95
10:49:00	30:20	200	21.67	5.00	82.09	0.41	6.17	17.4	240.28

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	1L Plastic	1	None
Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	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: NA	Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/30/2022 3:01:48 PM
-04:00

Project Number	30053438	Well ID	YGWA-5D	Date	08/30/2022		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	74.5 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	78.83	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	21.96	Total Depth (ft-bmp)	129.13	Water Column(ft)	107.17	Gallons in Well	17.41
MP Elevation	784.53	Pump Intake (ft-bmp)	124	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:05	Well Volumes Purged	0.12	Sample ID	YGWA-5D	Sampled by	Mark Chest
Purge Start	11:25	Gallons Purged	2.14	Replicate/ Code No.		Color	Clear
Purge End	12:00						

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)
11:25:00	00:00	200	21.96	6.77	198.80		4.08	20.0	184.74
11:26:00	00:17	200	21.96	6.80	198.26		2.67	19.2	34.77
11:31:00	05:17	200	22.99	7.46	223.19	0.02	0.14	17.9	-206.55
11:36:00	10:17	200	22.95	7.40	211.77	0.03	0.18	18.0	-225.81
11:41:00	15:17	200	22.95	7.36	208.20	0.02	0.20	18.3	-227.48
11:41:00	15:28	200	22.95	7.41	208.28	0.02	0.20	18.3	-229.94
11:46:00	20:28	200	22.95	7.40	206.51	0.02	0.21	18.0	-223.33
11:51:00	25:28	200	22.95	7.40	206.23	0.02	0.17	18.2	-220.02
11:56:00	30:28	200	22.95	7.40	205.72	0.02	0.19	18.2	-214.34
12:01:00	35:28	200	22.95	7.40	205.32	0.02	0.18	18.3	-211.56
12:06:00	40:28	200	22.95	7.40	205.22	0.02	0.19	18.3	-210.48

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	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: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 9/1/2022 10:02:42 PM
-04:00

Project Number	30053438	Well ID	YGWA-17S	Date	08/30/2022		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	32 °C, Overcast, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.65	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	13.33	Total Depth (ft-bmp)	39.85	Water Column(ft)	26.52	Gallons in Well	4.31
MP Elevation	783.05	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:40	Well Volumes Purged	0.31	Sample ID	YGWA-17S	Sampled by	Jessica Ware
Purge Start	15:11	Gallons Purged	1.32	Replicate/ Code No.		Color	Clear
Purge End	16:01						

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)
15:11:00	00:00	200	13.33	5.18	92.71		2.71	22.6	198.73
15:16:00	05:00	200	13.58	4.89	91.82	1.08	1.61	21.5	209.01
15:21:00	10:00	200	13.59	4.81	91.68	0.91	1.50	21.0	214.69
15:26:00	15:00	200	13.62	4.73	91.72	0.99	1.53	20.9	222.92
15:31:00	20:00	200	13.61	4.70	91.70	1.51	1.49	20.6	225.77
15:36:00	25:00	200	13.62	4.68	91.28	1.47	1.48	20.5	228.01

Constituent Sampled	Container	Number	Preservative
Metals	250mL HDPE Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3

Comments: Sampled

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 : 9/1/2022 10:02:47 PM
-04:00

Project Number	30053438	Well ID	YGWA-18S	Date	08/30/2022		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	74 °F, Overcast, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.97	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	21.48	Total Depth (ft-bmp)	39.97	Water Column(ft)	18.49	Gallons in Well	3
MP Elevation	790.57	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:10	Well Volumes Purged	0.40	Sample ID	YGWA-18S	Sampled by	Jessica Ware
Purge Start	09:37	Gallons Purged	1.19	Replicate/ Code No.		Color	Clear
Purge End	10:39						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (in)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:37:00	00:00	150	21.92	6.54	65.89	0.81	8.20	22.5	152.66
09:42:00	05:00	150		5.35	51.04		2.93	19.9	196.80
09:47:00	10:00	150	21.9	5.27	50.58	0.77	2.35	19.7	205.05
09:52:00	15:00	150	21.93	5.22	49.98	0.24	2.38	19.1	210.39
09:57:00	20:00	150	21.98	5.18	49.93	0.29	1.98	19.0	215.27
10:02:00	25:00	150	21.9	5.19	49.89	0.35	1.89	19.7	215.28
10:07:00	30:00	150	21.94	5.18	49.48	0.20	1.92	19.0	217.25

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
Metals	250mL HDPE Plastic	1	HNO3

Comments: Sampled

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 : 9/1/2022 10:02:38 PM
-04:00

Project Number	30053438	Well ID	YGWA-18I	Date	08/30/2022		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	76 °F, Overcast, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.67	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	24.46	Total Depth (ft-bmp)	79.97	Water Column(ft)	55.51	Gallons in Well	9.02
MP Elevation	790.57	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:35	Well Volumes Purged	0.18	Sample ID	YGWA-18I	Sampled by	Jessica Ware
Purge Start	10:50	Gallons Purged	1.59	Replicate/ Code No.		Color	Clear
Purge End	14:04						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (in)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:50:00	00:00	150	24.46	6.14	106.03		8.41	22.5	152.49
10:55:00	05:00	150	24.53	6.25	102.96	1.12	4.10	21.7	170.86
11:00:00	10:00	150	24.52	5.99	103.96	0.67	3.27	21.1	174.65
11:05:00	15:00	150	24.55	5.84	105.27	0.02	3.35	21.0	173.55
11:10:00	20:00	150	24.54	5.82	105.80	0.02	3.61	20.7	176.59
11:15:00	25:00	150	24.56	5.81	105.70	0.02	3.74	20.6	179.03
11:20:00	30:00	150	24.56	5.82	105.91		3.83	20.4	181.31
11:25:00	35:00	150	24.56	5.87	106.36		3.94	21.0	178.86
11:30:00	40:00	150	24.56	5.89	109.49		3.93	21.5	176.97

Constituent Sampled	Container	Number	Preservative
Metals	250mL HDPE Plastic	1	HNO3
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Compressor broke at 1124. Last reading at 11:20 was stable (dtw 24.56, turb 0.02). Got new compressor from Field and sampled at 13:35. Ok-ed by Mark Chest 8/30.

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 : 8/31/2022 1:51:50 PM
-04:00

Project Number	30053438	Well ID	YGWA-20S	Date	08/31/2022		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	80 °F, , winds at mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	19.22	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.57	Total Depth (ft-bmp)	29.52	Water Column(ft)	17.95	Gallons in Well	2.92
MP Elevation	767.12	Pump Intake (ft-bmp)	24.5	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:57	Well Volumes Purged	0.34	Sample ID	YGWA-20S	Sampled by	Jessica Ware
Purge Start	12:23	Gallons Purged	0.99	Replicate/ Code No.		Color	Clear
Purge End	13:35						

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)
12:23:00	00:00	200	11.57	6.60	54.41	1.83	8.33	23.1	121.75
12:28:00	05:00	150	12.04	5.59	54.42	9.46	8.08	19.9	199.47
12:33:00	10:00	100	11.91	5.51	54.40	8.03	7.92	21.0	210.37
12:38:00	15:00	100	11.82	5.45	54.47	7.33	7.85	21.2	216.56
12:43:00	20:00	100	11.8	5.37	54.27	4.86	7.77	21.2	224.01
12:48:00	25:00	100	11.78	5.38	54.31	2.98	7.66	21.6	223.86
12:53:00	30:00	100	11.73	5.38	54.63	2.35	7.56	22.7	225.51

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250mL HDPE Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Sampled

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 : 8/31/2022 2:06:34 PM
-04:00

Project Number	30053438	Well ID	YGWA-211	Date	08/30/2022		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	84.2 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	32.12	Total Depth (ft-bmp)	79.9	Water Column(ft)	47.78	Gallons in Well	7.76
MP Elevation	783.7	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:30	Well Volumes Purged	0.31	Sample ID	YGWA-211	Sampled by	Mark Chest
Purge Start	13:52	Gallons Purged	2.38	Replicate/ Code No.		Color	Clear
Purge End	14:27						

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)
13:52:00	00:00	300	32.12	7.45	175.48		7.87	32.5	157.78
13:57:00	05:00	250	35.55	7.08	197.65	2.22	0.28	21.0	-101.65
14:02:00	10:00	250	36	6.90	177.38	0.36	0.15	24.2	-98.85
14:07:00	15:00	250	36.12	6.82	170.35	0.02	0.16	22.1	-92.98
14:12:00	20:00	250	36.19	6.72	166.61	0.03	0.13	22.2	-92.82
14:17:00	25:00	250	36.27	6.64	161.22	0.02	0.12	22.3	-92.13
14:22:00	30:00	250	36.34	6.59	157.87	0.02	0.13	22.8	-91.59
14:27:00	35:00	250	36.41	6.58	155.91	0.00	0.13	23.4	-91.50

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
F, Cl, SO4	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: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/31/2022 2:06:35 PM
-04:00

Project Number	30053438	Well ID	YGWA-39	Date	08/31/2022		
Project Location	AMA R6 CCR Landfill		Weather(°F)	84.6 degrees F and Clear. The wind is blowing N/NW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	58.09	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	17.6	Total Depth (ft-bmp)	68.59	Water Column(ft)	50.99	Gallons in Well	8.29
MP Elevation	818.19	Pump Intake (ft-bmp)	63	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:50	Well Volumes Purged	0.25	Sample ID	YGWA-39	Sampled by	Mark Chest
Purge Start	13:06	Gallons Purged	2.11	Replicate/ Code No.		Color	Clear
Purge End	13:46						

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)
13:06:00	00:00	200	17.6	7.01	352.92		2.46	22.9	24.34
13:11:00	05:00	200	18.25	5.84	383.57	1.89	0.09	19.6	85.04
13:16:00	10:00	200	18.34	5.77	376.89	0.65	0.05	19.5	94.91
13:21:00	15:00	200	18.37	5.67	371.48	0.43	0.04	19.4	106.56
13:26:00	20:00	200	18.39	5.54	366.27	0.02	0.04	19.4	119.01
13:31:00	25:00	200	18.44	5.44	361.38	0.02	0.04	19.4	127.52
13:36:00	30:00	200	18.39	5.37	363.20	0.36	0.04	19.2	133.20
13:41:00	35:00	200	18.4	5.33	359.98	0.02	0.05	19.3	137.26
13:46:00	40:00	200	18.41	5.30	364.75	1.09	0.04	19.3	139.19

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
F,Cl,SO4	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: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 9/2/2022 10:29:15 AM
-04:00

Project Number	30053438	Well ID	YGWA-40	Date	08/31/2022		
Project Location	AMA R6 CCR Landfill		Weather(°F)	84.6 degrees F and Clear. The wind is blowing N/NW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	37.73	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	23.55	Total Depth (ft-bmp)	48.23	Water Column(ft)	24.68	Gallons in Well	4.01
MP Elevation	815.73	Pump Intake (ft-bmp)	42	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:40	Well Volumes Purged	0.40	Sample ID	YGWA-40	Sampled by	Mark Chest
Purge Start	16:06	Gallons Purged	1.59	Replicate/ Code No.		Color	Clear
Purge End	16:36						

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)
16:06:00	00:00	200		5.03	105.09		0.11	17.9	197.89
16:11:00	05:00	200	25.8	4.91	100.87	0.02	0.10	18.0	234.91
16:16:00	10:00	200	25.85	4.79	98.98	0.05	0.47	18.0	259.26
16:21:00	15:00	200	25.85	4.66	100.66	0.02	0.39	17.9	280.04
16:26:00	20:00	200	25.85	4.59	98.38	0.02	0.29	17.9	293.98
16:31:00	25:00	200	25.85	4.57	94.16	0.03	0.26	17.9	302.46
16:36:00	30:00	200	25.85	4.53	94.04	0.05	0.22	17.8	311.98

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
F, CL, SO4	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: NA Key Number To Well: NA

Groundwater Sampling Form



Updated : 8/31/2022 10:19:04 AM -04:00

Project Number	30053438	Well ID	YGWA-11	Date	08/31/2022		
Project Location	AP-2	Weather(°F)	71.1 degrees F and Cloudy. The wind is blowing N at 5.8 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	43.3	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	37.23	Total Depth (ft-bmp)	53.6	Water Column(ft)	16.37	Gallons in Well	2.66
MP Elevation	836.6	Pump Intake (ft-bmp)	49	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:10	Well Volumes Purged	0.48	Sample ID	YGWA-11	Sampled by	Khalil Carson
Purge Start	08:22	Gallons Purged	1.27	Replicate/ Code No.		Color	Clear
Purge End	10:17						

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)
08:22:00	00:00	150	37.23	5.68	89.49		6.59	22.6	186.55
08:27:00	05:00	150	38.18	5.65	86.30	0.53	5.29	20.0	141.15
08:28:00	05:29	100	37.23	5.61	88.39	0.53	5.02	19.9	139.26
08:33:00	10:29	100	38.22	5.74	88.86	0.94	4.68	20.5	112.33
08:38:00	15:29	100	38.27	5.66	84.27	0.61	4.82	20.7	110.40
08:43:00	20:29	100	38.32	5.49	78.81	0.11	4.94	20.7	121.58
08:48:00	25:29	100	38.36	5.63	77.52	0.27	5.14	20.7	118.66
08:53:00	30:29	100	38.4	5.56	76.06	0.33	5.28	20.6	125.51
08:58:00	35:29	100	38.45	5.70	75.25	0.41	5.38	20.7	120.61
09:03:00	40:29	100	38.49	5.67	74.70	0.27	5.34	20.7	124.88
09:08:00	45:29	100	38.49	5.64	74.31	0.69	5.46	20.8	129.78

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
C,F,SO4	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Comments: -

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 : 9/8/2022 4:54:30 PM - 04:00

Project Number	30053438	Well ID	YGWA-1D	Date	08/30/2022		
Project Location	AP-2	Weather(°F)	75.6 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	78.05	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	49.39	Total Depth (ft-bmp)	128.85	Water Column(ft)	79.46	Gallons in Well	12.91
MP Elevation	837.25	Pump Intake (ft-bmp)	108	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:50	Well Volumes Purged	0.12	Sample ID	YGWA-1D	Sampled by	Khalil Carson
Purge Start	13:15	Gallons Purged	1.59	Replicate/ Code No.		Color	Clear
Purge End	14:30						

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	200	145.6365	7.19	165.81		3.53	37.3	101.43
13:15:00	00:29	200	49.43	7.19	164.03		3.51	37.5	101.95
13:20:00	05:29	200	49.47	7.25	157.05	1.75	2.20	31.1	35.74
13:24:00	09:31	200	49.45	7.10	157.61	1.66	1.52	27.9	31.13
13:29:00	14:31	200	49.45	6.88	159.90	0.02	1.11	26.8	3.74
13:32:00	16:49	200	49.45	7.04	162.63		1.09	25.6	-16.24
13:37:00	21:49	200	49.45	7.11	163.02	1.71	0.98	25.2	-43.61
13:42:00	26:49	200	49.45	7.18	163.35	1.04	0.84	24.6	-59.45
13:47:00	31:49	200	49.45	7.20	161.94	0.66	0.78	24.4	-67.58

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Cl,F,SO4	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Comments: -

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 : 8/30/2022 7:27:49 PM -

Project Number	30053438	Well ID	YGWA-2I	Date	08/30/2022
Project Location	AP-2	Weather(°F)	Cloudy temp 77		
Measuring Pt. Description	Top of Outer Casing	Screen Setting (ft-bmp)	53.45	Casing Diameter (in)	2
Static Water Level (ft-bmp)	44.5	Total Depth (ft-bmp)	63.75	Water Column(ft)	19.25
MP Elevation	866.25	Pump Intake (ft-bmp)	60	Purge Method	Low-Flow
Sample Time	10:00	Well Volumes Purged	0.30	Sample ID	YGWA-2I
Purge Start	09:24	Gallons Purged	0.92	Replicate/ Code No.	
Purge End	11:43			Color	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)
9:24	00:00	200	44.5	7.10	173.92		8.48	23.4	178.94
9:29	05:00	200	45.65	6.83	180.62	2.33	4.00	20.9	-40.08
9:34	10:00	150	46.00	6.94	189.14	1.05	1.60	20.5	-72.2
9:39	15:00	50	46.38	7.01	189.31	0.41	1.13	21.3	-82.9
9:44	20:00	50	46.63	7.04	188.53	0.77	1.11	21.9	-89.1
9:49	25:00:00	50	46.71	7.05	186.33	1.76	1.04	22.4	-90.7
9:54	30:00:00	50	46.81	7.04	184.05	0.53	1.04	22.7	-87.2

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Anions	250 mL Plastic	1	HNO3

Comments: -

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 : 8/31/2022 1:51:49 PM
-04:00

Project Number	30053438	Well ID	YGWA-3I	Date	08/31/2022		
Project Location	AP-2	Weather(°F)	78 °F, Sunny, winds at mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	48.85	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	53.22	Total Depth (ft-bmp)	59.05	Water Column(ft)	5.83	Gallons in Well	0.95
MP Elevation	796.55	Pump Intake (ft-bmp)	54	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:54	Well Volumes Purged	2.05	Sample ID	YGWA-3I	Sampled by	Jessica Ware
Purge Start	10:02	Gallons Purged	1.95	Replicate/ Code No.		Color	Clear
Purge End	11:25						

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)
10:02:00	00:00	200	53.22	7.57	210.69	0.30	8.69	19.1	125.05
10:07:00	05:00	200	53.62	7.40	274.64	0.48	4.45	19.6	130.45
10:12:00	10:00	200	53.7	7.36	291.19	1.91	1.99	18.8	71.97
10:17:00	15:00	125	53.52	7.41	291.02	1.24	2.03	21.7	29.04
10:22:00	20:00	125	53.48	7.43	285.82	0.53	1.94	22.0	6.67
10:27:00	25:00	125	53.46	7.45	272.37	1.02	1.67	21.8	-19.80
10:32:00	30:00	125	53.44	7.46	258.51	0.67	1.44	22.1	-34.15
10:37:00	35:00	125	53.45	7.47	245.50	0.48	1.20	21.8	-44.37
10:42:00	40:00	125	53.46	7.47	235.31	0.27	1.05	21.8	-51.67
10:47:00	45:00	125	53.46	7.48	230.69	0.53	1.03	21.8	-54.62
10:52:00	50:00	125	53.47	7.49	228.11	0.40	1.08	21.9	-55.58

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250mL HDPE Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Sampled

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 : 9/1/2022 10:02:45 PM
-04:00

Project Number	30053438	Well ID	YGWA-3D	Date	08/31/2022
Project Location	AP-2	Weather(°F)	32 °F, , winds at mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	83.88	Casing Diameter (in)	2
Static Water Level (ft-bmp)	30.3	Total Depth (ft-bmp)	134.18	Water Column(ft)	103.88
MP Elevation	796.78	Pump Intake (ft-bmp)	113	Purge Method	Low-Flow
Sample Time	09:30	Well Volumes Purged	0.07	Sample ID	YGWA-3D
Purge Start	08:57	Gallons Purged	1.19	Replicate/ Code No.	
Purge End	10:01			Color	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)
08:57:00	00:00	150	30.3	7.68	227.11		8.62	22.6	193.29
09:02:00	05:00	150	30.33	6.91	222.28	0.69	2.37	20.4	10.36
09:07:00	10:00	150	30.34	7.16	223.33	0.83	1.07	20.0	-40.45
09:12:00	15:00	150	30.32	7.45	222.32	0.60	0.70	19.5	-59.28
09:17:00	20:00	150	30.35	7.57	222.71	0.28	0.63	19.2	-73.91
09:22:00	25:00	150	30.36	7.62	222.83	0.02	0.62	19.4	-89.84
09:27:00	30:00	150	30.33	7.65	222.81	0.13	0.54	19.5	-102.82

Constituent Sampled	Container	Number	Preservative
Metals	250mL HDPE Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Sampled

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 : 9/1/2022 3:43:23 PM - 04:00

Project Number	30053438	Well ID	YGWA-14S	Date	08/31/2022		
Project Location	AP-2	Weather(°F)	83.7 degrees F and Clear. The wind is blowing N at 8.1 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	24.66	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	20.24	Total Depth (ft-bmp)	34.96	Water Column(ft)	14.72	Gallons in Well	2.39
MP Elevation	748.76	Pump Intake (ft-bmp)	30	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:15	Well Volumes Purged	1.03	Sample ID	YGWA-14S	Sampled by	Khalil Carson
Purge Start	13:10	Gallons Purged	2.47	Replicate/ Code No.		Color	Clear
Purge End	15:07						

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)
13:10:00	00:00	150	20.24	5.15	69.74		7.46	27.3	185.16
13:15:00	05:00	150	20.34	4.84	61.05	0.02	6.85	27.9	213.44
13:20:00	09:46	150	20.34	4.87	66.68	0.02	6.14	27.6	224.17
13:25:00	14:46	150	20.34	4.83	65.63	0.08	5.95	27.2	234.74
13:30:00	19:46	150	20.34	4.76	65.77	0.02	5.93	27.0	249.59
13:35:00	24:46	150	20.34	4.88	54.89	0.02	5.94	26.9	246.66
13:40:00	29:46	150	20.34	4.96	61.81	0.02	5.88	26.9	246.23
13:45:00	34:46	150	20.34	5.01	64.18	0.20	5.77	27.2	248.56
13:50:00	39:46	150	20.34	4.67	63.07	0.69	5.72	27.2	267.44
13:55:00	44:46	150	20.34	4.88	54.79	1.89	5.73	27.2	264.42
13:58:00	47:24	150	20.34	4.94	64.26	1.89	5.86	26.8	299.77
14:03:00	52:24	150	20.34	5.06	57.06	0.02	5.74	27.2	273.52
14:08:00	57:24	150	20.34	5.12	55.34	0.18	5.79	27.1	269.07
14:13:00	02:24	150	20.34	5.15	57.24	0.24	5.75	27.0	268.37

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Cl,F,SO4	250 mL Plastic	1	None

Comments: -

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

Groundwater Sampling Form



Well Location: _____
Condition of Well: _____
Well Completion: NA _____

Well Locked at Arrival: _____
Well Locked at Departure: _____
Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 9/1/2022 3:43:22 PM - 04:00

Project Number	30053438	Well ID	YGWA-30I	Date	08/31/2022
Project Location	AP-2	Weather(°F)	Partly cloudy 81		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.18	Casing Diameter (in)	2
Static Water Level (ft-bmp)	43.86	Total Depth (ft-bmp)	59.48	Water Column(ft)	15.62
MP Elevation	762.58	Pump Intake (ft-bmp)	54.5	Purge Method	Low-Flow
Sample Time	11:30	Well Volumes Purged	0.67	Sample ID	YGWA-30I
Purge Start	10:44	Gallons Purged	1.70	Replicate/ Code No.	
Purge End	12:00			Color	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)
10:44:00	00:00	150	44.36	6.64	58.07		8.59	24.5	133.57
10:49:00	05:00	150	44.36	6.63	59.21	1.32	8.48	25.9	121.26
10:55:00	10:49	150	43.9	6.71	58.93	0.71	8.27	27.4	152.70
10:57:00	12:53	150	43.9	6.60	55.09	1.12	8.58	27.2	161.79
11:02:00	17:53	150	43.9	6.13	53.46	1.31	7.97	26.4	148.39
11:07:00	22:53	150	43.9	5.58	54.11	0.81	7.48	25.8	178.08
11:12:00	27:53	150	43.9	5.74	54.08	0.85	7.38	25.2	175.12
11:17:00	32:53	150	43.9	5.78	54.88	0.02	7.25	25.1	178.57
11:22:00	37:53	150	43.9	5.84	54.83	0.14	7.14	25.2	180.65
11:27:00	42:53	150	43.9	5.87	54.57	0.41	7.07	25.4	182.89

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	125 mL Plastic	1	HNO3
TDS	250 mL Plastic	1	None
C,FL,SO4	125 mL Plastic	1	None

Comments: —

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 : 8/30/2022 7:53:59 PM
-04:00

Project Number	30052922	Well ID	GWA-2	Date	08/30/2022		
Project Location	Gypsum Landfill		Weather(°F)	72.0 degrees F and Fog. The wind is blowing E/SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	42.1	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	36.28	Total Depth (ft-bmp)	52.13	Water Column(ft)	15.85	Gallons in Well	2.58
MP Elevation	805.62	Pump Intake (ft-bmp)	47	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:05	Well Volumes Purged	0.20	Sample ID	GWA-2	Sampled by	Jake Swanson
Purge Start	09:34	Gallons Purged	0.53	Replicate/ Code No.		Color	Clear
Purge End	09:54						

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)
09:34:00	00:00	100	36.28	5.79	189.14	0.77	1.60	20.5	-72.17
09:39:00	05:00	100	36.81	5.49	189.31	0.22	1.13	21.3	-82.91
09:44:00	10:00	100	36.9	5.35	188.53	0.31	1.11	21.0	-89.15
09:49:00	15:00	100	36.96	5.35	186.33	0.36	1.04	20.8	-90.65
09:54:00	20:00	100	37.03	5.39	184.04	0.43	1.04	20.8	-87.16

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: Upgradient well

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 : 8/31/2022 1:26:36 PM
-04:00

Project Number	30052922	Well ID	YGWA-47	Date	08/31/2022		
Project Location	AP-1	Weather(°F)	73 sunny				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.4	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	34.18	Total Depth (ft-bmp)	59.19	Water Column(ft)	25.01	Gallons in Well	4.06
MP Elevation	758.22	Pump Intake (ft-bmp)	54	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:15	Well Volumes Purged	0.20	Sample ID	YGWA-47	Sampled by	Jake Swanson
Purge Start	08:47	Gallons Purged	0.79	Replicate/ Code No.		Color	Clear
Purge End	09:07						

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)
08:47:00	00:00	150	34.18	6.58	151.49	2.88	7.95	22.6	181.33
08:52:00	05:00	150	34.74	5.33	132.46	3.07	3.82	19.5	191.39
08:57:00	10:00	150	34.75	5.26	129.13	0.96	3.62	19.2	193.14
09:02:00	15:00	150	34.77	5.28	129.79	0.89	3.53	19.0	188.90
09:07:00	20:00	150	34.79	5.32	135.11	0.02	3.44	19.1	185.05

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,F, SO4	250 mL Plastic	1	None
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: NA Key Number To Well: NA

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWA-2					
Person Gauging: Jake Swanson					
Date: 8/29/2022					
Time: 09:39:00					
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:					
	Cut vegetation				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report



Project Location: AP-1			Yes	No	N/A
Permit Number:					
Well ID: YGWA-47					
Person Gauging: David Prouty					
Date: 8/29/2022					
Time: 10:23:00					
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious	<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,	<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	<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	<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:					
Cut vegetation					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-30I			
Person Gauging:		Jake Swanson			
Date:		8/29/2022			
Time:		12:49:00			
			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:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-14S					
Person Gauging: Jake Swanson					
Date: 8/29/2022					
Time: 12:39:00					
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:					
	Cut vegetation				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-211					
Person Gauging: Jessica Ware					
Date: 8/29/2022					
Time: 09:48:00					
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 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 type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input 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:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill				
Permit Number:				
Well ID: YGWA-39				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 13:12:00				
		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

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWA-40					
Person Gauging: Jessica Ware					
Date: 8/29/2022					
Time: 12:52:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input 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:					
Area overgrown, should be cleared					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-18S				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 12:17:00				
		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 checked="" type="checkbox"/>	<input 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 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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-18I				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 12:14:00				
		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 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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-17S				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 12:06:00				
		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 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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-5I				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 10:22:00				
		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 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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-5D				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 10:11:00				
		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 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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-20S				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 09:51:00				
		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 checked="" type="checkbox"/>	<input 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 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 type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input 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:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-4I				
Person Gauging: Jessica Ware				
Date: 8/29/2022				
Time: 09:55:00				
		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:			
	No vehicle access, down trees			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-11					
Person Gauging: Jessica Ware					
Date: 8/29/2022					
Time: 11:32:00					
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 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

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-1D			
Person Gauging:		Jessica Ware			
Date:		8/29/2022			
Time:		11:25:00			
			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

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-2I			
Person Gauging:		Jessica Ware			
Date:		8/29/2022			
Time:		11:36:00			
			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

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-3I			
Person Gauging:		Jessica Ware			
Date:		8/29/2022			
Time:		11:06:00			
			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

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-3D			
Person Gauging:		Jessica Ware			
Date:		8/29/2022			
Time:		11:08:00			
			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:				

Appendix B

Analytical Lab and Data Validation Reports (February, August, and September 2022)

February 2022

Georgia Power Co. – Plant Yates

Data Review Report

Metals, Radium, and General Chemistry Analyses

SDGs #92587078 and 92587089

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #44873R

Review Level: Tier II

Project: 30052923.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92587078 and 92587089 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
YGWC-28S	92587078001 92587089001	Water	2/8/2022		X	X	X
YGWC-28I	92587078002 92587089002	Water	2/8/2022		X	X	X
AP-2-DUP-1	92587078003 92587089003	Water	2/8/2022	YGWC-28I	X	X	X
YGWC-29I	92587078004 92587089004	Water	2/8/2022		X	X	X
AP-2-FB-1	92587078005 92587089005	Water	2/8/2022		X	X	X
YGWC-27S	92587078006 92587089006	Water	2/8/2022		X	X	X
AP-2-EB-1	92587078007 92587089007	Water	2/8/2022		X	X	X
AP-2-EB-2	92587078008 92587089008	Water	2/9/2022		X	X	X
AP-2-FB-2	92587078009 92587089009	Water	2/9/2022		X	X	X
YGWC-26S	92587078010 92587089010	Water	2/10/2022		X	X	X
YGWC-26I	92587078011 92587089011	Water	2/10/2022		X	X	X
YGWC-27I	92587078012 92587089012	Water	2/10/2022		X	X	X

Data Review Report

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.
4. pH analysis performed as a field measurement.

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) SM4500-H+ B and 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), and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017).

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.

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

Data Review Report

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
YGWC-28S YGWC-28I AP-2-DUP-1 YGWC-29I YGWC-27S YGWC-26S YGWC-26I YGWC-27I	Arsenic (EB, FB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration

Notes:

EB = Equipment blank

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 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 YGWC-29I in association with SW-846 6010D analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWC-28I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWC-28S in association with SW-846 7470A analysis exhibited recoveries outside of the control limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWC-28S	Mercury	AC (77%)	74%

Note:

AC = Acceptable

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified. The qualifications are applied to all sample results associated with this SDG.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

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. 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
YGWC-28I / AP-2-DUP-1	Calcium	31.8	31.3	1.6%
	Barium	0.083	0.083	0.0%
	Boron	2.4	2.4	0.0%
	Antimony	0.0030 U	0.0011 J	AC
	Cadmium	0.00033 J	0.00030 J	
	Lithium	0.0076 J	0.0076 J	
	Molybdenum	0.0011 J	0.0012 J	

Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-DUP-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	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES)					
Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)					
Cold Vapor Atomic Absorption (CVAA)					
Tier II Validation					
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
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
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.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

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 AP-2-FB-1 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 samples AP-2-FB-1 and YGWC-27I in association with TDS analysis exhibited RPDs 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
YGWC-28I / AP-2-DUP-1	TDS	206	202	2.0%
	Chloride	15.2	15.1	0.7%
	Sulfate	8.1	8.1	0.0%
	Fluoride	0.063 J	0.063 J	AC

Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-DUP-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: SM4500-H+ B, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
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 (± 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_{Sample} = uncertainty of the sample

U_{Blank} = 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-228, Radium-226, and total Radium were detected in the QA blanks, however, the activities were measured as less than the uncertainty and MDC or between the uncertainty and MDC as described above. Hence, the blank results are considered non-detect and no qualification of the results was required.

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 < ±3 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.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

u²(x), u²(x₀), u²(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 ±3 sigma. Warning limits have been established as ±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 ±3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

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

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 ±3 sigma. Warning limits have been established as ±2 sigma.

The laboratory duplicate analysis performed on sample location YGWC-28S in association with SW-846 9315 analysis exhibited acceptable difference between the results.

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-28I / AP-2-DUP-1	Radium-226	0.0326 ± 0.0715	0.0621 ± 0.0828	AC
	Radium-228	1.04 ± 0.575	0.334 ± 0.282	
	Total Radium	1.07 ± 0.647	0.396 ± 0.365	

Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-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

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = 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:

- YGWC-28I, AP-2-DUP-1, YGWC-29I, YGWC-27S, YGWC-26S, and YGWC-26I – Radium-226, Radium-228, and total Radium
- YGWC-27I – Radium-226

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	
Miscellaneous Instrumentation					
Tier II Validation					
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: 

DATE: March 21, 2022

PEER REVIEW: Dennis Capria

DATE: March 25, 2022

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.

Page: 1 / Of 1

Section A Required Client Information: Company: GA Power Address: Atlanta, GA Email To: Phone: Requested Due Date:		Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Purchase Order #: Project Name: Plant Yates AP-2 Project Number:		Section C Invoice Information: Attention: Southern Co. Company Name: Address: Pace Quote: Pace Project Manager: Nicole D'Oleo Pace Profile #: 10840		Regulatory Agency: State / Location: Georgia
--	--	--	--	--	--	--

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL QL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	pH:
						START DATE	START TIME	END DATE	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320								
1	YGWC-26S	WT	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2	YGWC-28T	WT	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
3	YGWC-27S	WT	G	2/8/22	1737	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	YGWC-27L	WT	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
5	YGWC-28S	WT	G	2/8/22	1521	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	YGWC-28I	WT	G	2/8/22	1647	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	AP-2-DUP-1	WT	G	2/8/22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	YGWC-29I	WT	G	2/8/22	1402	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	AP-2-FB-1	WT	G	2/8/22	1829	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	AP-2-FB-2	WT	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	AP-2-FB-1	WT	G	2/8/22	1535	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	AP-2-FB-2	WT	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>[Signature]</i> Arcadis	2/9/22	825	<i>[Signature]</i> Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D	<i>[Signature]</i> Arcadis	2/9/22	1018	<i>[Signature]</i> Arcadis	2/9/22	1018	
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: Mark Chest SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed: 2/9/22
--	--	---------------------

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:
Phone: Fax:
Requested Due Date:

Section B

Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates AP-2
Project Number:

Section C

Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Page: 1 Of 1

Regulatory Agency
State / Location
Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	CODE Drinking Water DW Water WT Waste Water WW Product P SoftSolid SL Oil OL Wipe WIP Air AR Other OT Tissue TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)
				START DATE	START TIME	END DATE	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	
1	YGWC-26S	WT	G	-	-	-	-	5	2	3							X	X	X	X			
2	YGWC-28t	WT	G	-	-	-	-	5	2	3							X	X	X	X			
3	YGWC-27S	WT	G	2/8/22	1737	-	-	5	2	3							X	X	X	X			
4	YGWC-27t	WT	G	-	-	-	-	5	2	3							X	X	X	X			
5	YGWC-28S	WT	G	-	-	-	-	5	2	3							X	X	X	X			
6	YGWC-28t	WT	G	-	-	-	-	5	2	3							X	X	X	X			
7	AP-2-DUP-1	WT	G	-	-	-	-	5	2	3							X	X	X	X			
8	YGWC-29t	WT	G	-	-	-	-	5	2	3							X	X	X	X			
9	AP-2-EB-1	WT	G	2/8/22	827	-	-	5	2	3							X	X	X	X			
10	AP-2-EB-2	WT	G	-	-	-	-	5	2	3							X	X	X	X			
11	AP-2-FB-1	WT	G	-	-	-	-	5	2	3							X	X	X	X			
12	AP-2-FB-2	WT	G	-	-	-	-	5	2	3							X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Waine / Arcadis	2/9/22	0828	Jessica Waine / Arcadis	2/9/22	0828	
App III Metals: Boron 6020B, Ca 6010D	Jessica Waine / Arcadis	2/9/22	1018	M. Waine	2/9/22	1018	
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		TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Jessica Waine					
SIGNATURE of SAMPLER: Jessica Waine					

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587078	No qualifiers assigned						
92587089	YGWC-28S	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-28I	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-DUP-1	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-29I	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-FB-1	SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-27S	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-EB-1	SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-EB-2	SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	AP-2-FB-2	SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-26S	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-26I	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL
	YGWC-27I	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
		SW846 7470A	Mercury	0.00020	mg/L	UJ	MSD %R < LCL

Abbreviations:

%R = percent recovery
LCL = lower control limit
mg/L = milligrams per liter
MSD = matrix spike duplicate

Qualifiers:

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

February 25, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: YATES AP-2
Pace Project No.: 92587089

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 2022. 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Anna Bottum, ERM
Andrea Brazell, ERM
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Lacy Smith, ERM
Samantha Thomas

Caitlin Tillema, ERM
Christine Weaver, ERM
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: YATES AP-2
Pace Project No.: 92587089

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES AP-2

Pace Project No.: 92587089

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587089001	YGWC-28S	Water	02/08/22 15:21	02/09/22 10:18
92587089002	YGWC-28I	Water	02/08/22 16:17	02/09/22 10:18
92587089003	AP-2-DUP-1	Water	02/08/22 00:00	02/09/22 10:18
92587089004	YGWC-29I	Water	02/08/22 14:02	02/09/22 10:18
92587089005	AP-2-FB-1	Water	02/08/22 15:35	02/09/22 10:18
92587089006	YGWC-27S	Water	02/08/22 17:37	02/09/22 10:18
92587089007	AP-2-EB-1	Water	02/08/22 18:27	02/09/22 10:18
92587089008	AP-2-EB-2	Water	02/09/22 18:45	02/10/22 17:00
92587089009	AP-2-FB-2	Water	02/09/22 16:45	02/10/22 17:00
92587089010	YGWC-26S	Water	02/10/22 09:15	02/11/22 16:45
92587089011	YGWC-26I	Water	02/10/22 10:25	02/11/22 16:45
92587089012	YGWC-27I	Water	02/10/22 11:45	02/11/22 16:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES AP-2

Pace Project No.: 92587089

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587089001	YGWC-28S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587089002	YGWC-28I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587089003	AP-2-DUP-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587089004	YGWC-29I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587089005	AP-2-FB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587089006	YGWC-27S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587089007	AP-2-EB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587089008	AP-2-EB-2	EPA 6010D	KH	1
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: YATES AP-2
Pace Project No.: 92587089

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587089009	AP-2-FB-2	EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587089010	YGWC-26S	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
92587089011	YGWC-26I	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92587089012	YGWC-27I	SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2
Pace Project No.: 92587089

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587089001	YGWC-28S					
	Performed by	CUSTOME			02/09/22 12:28	
		R				
	pH	6.30	Std. Units		02/09/22 12:28	
EPA 6010D	Calcium	26.7	mg/L	1.0	02/23/22 20:09	
EPA 6020B	Arsenic	0.0042J	mg/L	0.0050	02/23/22 18:29	B
EPA 6020B	Barium	0.20	mg/L	0.0050	02/23/22 18:29	
EPA 6020B	Boron	2.4	mg/L	0.040	02/23/22 18:29	
EPA 6020B	Cobalt	0.00091J	mg/L	0.0050	02/23/22 18:29	
EPA 6020B	Molybdenum	0.00082J	mg/L	0.010	02/23/22 18:29	
SM 2540C-2015	Total Dissolved Solids	216	mg/L	10.0	02/14/22 15:18	
EPA 300.0 Rev 2.1 1993	Chloride	18.3	mg/L	1.0	02/15/22 04:46	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/15/22 04:46	
EPA 300.0 Rev 2.1 1993	Sulfate	10.5	mg/L	1.0	02/15/22 04:46	
92587089002	YGWC-28I					
	Performed by	CUSTOME			02/09/22 12:28	
		R				
	pH	6.34	Std. Units		02/09/22 12:28	
EPA 6010D	Calcium	31.8	mg/L	1.0	02/23/22 20:14	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	02/23/22 18:35	B
EPA 6020B	Barium	0.083	mg/L	0.0050	02/23/22 18:35	
EPA 6020B	Boron	2.4	mg/L	0.040	02/23/22 18:35	
EPA 6020B	Cadmium	0.00033J	mg/L	0.00050	02/23/22 18:35	
EPA 6020B	Lithium	0.0076J	mg/L	0.030	02/23/22 18:35	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	02/23/22 18:35	
SM 2540C-2015	Total Dissolved Solids	206	mg/L	10.0	02/14/22 15:18	
EPA 300.0 Rev 2.1 1993	Chloride	15.2	mg/L	1.0	02/15/22 04:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.063J	mg/L	0.10	02/15/22 04:59	
EPA 300.0 Rev 2.1 1993	Sulfate	8.1	mg/L	1.0	02/15/22 04:59	
92587089003	AP-2-DUP-1					
EPA 6010D	Calcium	31.3	mg/L	1.0	02/23/22 20:18	
EPA 6020B	Antimony	0.0011J	mg/L	0.0030	02/23/22 18:59	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	02/23/22 18:59	B
EPA 6020B	Barium	0.083	mg/L	0.0050	02/23/22 18:59	
EPA 6020B	Boron	2.4	mg/L	0.040	02/23/22 18:59	
EPA 6020B	Cadmium	0.00030J	mg/L	0.00050	02/23/22 18:59	
EPA 6020B	Lithium	0.0076J	mg/L	0.030	02/23/22 18:59	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	02/23/22 18:59	
SM 2540C-2015	Total Dissolved Solids	202	mg/L	10.0	02/14/22 15:19	
EPA 300.0 Rev 2.1 1993	Chloride	15.1	mg/L	1.0	02/15/22 05:13	
EPA 300.0 Rev 2.1 1993	Fluoride	0.063J	mg/L	0.10	02/15/22 05:13	
EPA 300.0 Rev 2.1 1993	Sulfate	8.1	mg/L	1.0	02/15/22 05:13	
92587089004	YGWC-29I					
	Performed by	CUSTOME			02/09/22 12:28	
		R				
	pH	5.88	Std. Units		02/09/22 12:28	
EPA 6010D	Calcium	9.3	mg/L	1.0	02/23/22 20:33	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2
Pace Project No.: 92587089

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587089004	YGWC-29I					
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 19:05	B
EPA 6020B	Barium	0.057	mg/L	0.0050	02/23/22 19:05	
EPA 6020B	Boron	0.71	mg/L	0.040	02/23/22 19:05	
EPA 6020B	Cadmium	0.00019J	mg/L	0.00050	02/23/22 19:05	
EPA 6020B	Lithium	0.0064J	mg/L	0.030	02/23/22 19:05	
SM 2540C-2015	Total Dissolved Solids	120	mg/L	10.0	02/14/22 15:19	
EPA 300.0 Rev 2.1 1993	Chloride	5.5	mg/L	1.0	02/15/22 05:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	02/15/22 05:55	
EPA 300.0 Rev 2.1 1993	Sulfate	22.9	mg/L	1.0	02/15/22 05:55	
92587089005	AP-2-FB-1					
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 19:11	B
EPA 6020B	Boron	0.014J	mg/L	0.040	02/23/22 19:11	
92587089006	YGWC-27S					
	Performed by	CUSTOMER			02/09/22 12:28	
	pH	6.22	Std. Units		02/09/22 12:28	
EPA 6010D	Calcium	27.2	mg/L	1.0	02/23/22 20:58	
EPA 6020B	Arsenic	0.0019J	mg/L	0.0050	02/23/22 19:29	B
EPA 6020B	Barium	0.068	mg/L	0.0050	02/23/22 19:29	
EPA 6020B	Boron	1.1	mg/L	0.20	02/24/22 12:52	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	02/23/22 19:29	
SM 2540C-2015	Total Dissolved Solids	159	mg/L	10.0	02/14/22 15:19	
EPA 300.0 Rev 2.1 1993	Chloride	13.0	mg/L	1.0	02/15/22 06:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.087J	mg/L	0.10	02/15/22 06:51	
EPA 300.0 Rev 2.1 1993	Sulfate	16.3	mg/L	1.0	02/15/22 06:51	
92587089007	AP-2-EB-1					
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	02/23/22 19:35	B
92587089008	AP-2-EB-2					
EPA 6020B	Arsenic	0.0038J	mg/L	0.0050	02/23/22 20:11	B
92587089009	AP-2-FB-2					
EPA 6020B	Arsenic	0.0038J	mg/L	0.0050	02/23/22 20:17	B
92587089010	YGWC-26S					
	Performed by	CUSTOMER			02/14/22 11:29	
	pH	5.31	Std. Units		02/14/22 11:29	
EPA 6010D	Calcium	11.6	mg/L	1.0	02/23/22 22:04	
EPA 6020B	Arsenic	0.0032J	mg/L	0.0050	02/23/22 20:53	B
EPA 6020B	Barium	0.027	mg/L	0.0050	02/23/22 20:53	
EPA 6020B	Beryllium	0.000093J	mg/L	0.00050	02/23/22 20:53	
EPA 6020B	Boron	0.79	mg/L	0.20	02/24/22 13:10	
EPA 6020B	Cobalt	0.0026J	mg/L	0.0050	02/23/22 20:53	
SM 2540C-2015	Total Dissolved Solids	168	mg/L	10.0	02/17/22 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	14.0	mg/L	1.0	02/19/22 03:43	
EPA 300.0 Rev 2.1 1993	Sulfate	86.5	mg/L	1.0	02/19/22 03:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2
Pace Project No.: 92587089

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587089011	YGWC-26I					
	Performed by	CUSTOME			02/14/22 11:30	
		R				
	pH	5.84	Std. Units		02/14/22 11:30	
EPA 6010D	Calcium	16.4	mg/L	1.0	02/23/22 22:09	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/23/22 20:59	B
EPA 6020B	Barium	0.063	mg/L	0.0050	02/23/22 20:59	
EPA 6020B	Boron	0.79	mg/L	0.20	02/24/22 13:16	
EPA 6020B	Lithium	0.0086J	mg/L	0.030	02/23/22 20:59	
EPA 6020B	Selenium	0.0042J	mg/L	0.0050	02/23/22 20:59	
SM 2540C-2015	Total Dissolved Solids	207	mg/L	10.0	02/17/22 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	15.4	mg/L	1.0	02/19/22 03:59	
EPA 300.0 Rev 2.1 1993	Sulfate	81.8	mg/L	1.0	02/19/22 03:59	
92587089012	YGWC-27I					
	Performed by	CUSTOME			02/14/22 11:30	
		R				
	pH	6.23	Std. Units		02/14/22 11:30	
EPA 6010D	Calcium	27.4	mg/L	1.0	02/23/22 22:23	
EPA 6020B	Arsenic	0.0040J	mg/L	0.0050	02/23/22 21:05	B
EPA 6020B	Barium	0.079	mg/L	0.0050	02/23/22 21:05	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	02/23/22 21:05	
EPA 6020B	Boron	2.5	mg/L	0.20	02/24/22 13:22	
EPA 6020B	Cobalt	0.0051	mg/L	0.0050	02/23/22 21:05	
EPA 6020B	Lithium	0.0072J	mg/L	0.030	02/23/22 21:05	
EPA 6020B	Molybdenum	0.0018J	mg/L	0.010	02/23/22 21:05	
SM 2540C-2015	Total Dissolved Solids	190	mg/L	10.0	02/17/22 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	13.1	mg/L	1.0	02/19/22 04:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/19/22 04:14	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	02/19/22 04:14	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92587089

Sample: YGWC-28S		Lab ID: 92587089001		Collected: 02/08/22 15:21		Received: 02/09/22 10:18		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 12:28		
pH	6.30	Std. Units			1		02/09/22 12:28		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	26.7	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:09	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 18:29	7440-36-0	
Arsenic	0.0042J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:29	7440-38-2	B
Barium	0.20	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 18:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 18:29	7440-41-7	
Boron	2.4	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 18:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 18:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:29	7440-47-3	
Cobalt	0.00091J	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 18:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 18:29	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 18:29	7439-93-2	
Molybdenum	0.00082J	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 18:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 18:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 18:29	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:08	7439-97-6	M1
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	216	mg/L	10.0	10.0	1		02/14/22 15:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	18.3	mg/L	1.0	0.60	1		02/15/22 04:46	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.050	1		02/15/22 04:46	16984-48-8	
Sulfate	10.5	mg/L	1.0	0.50	1		02/15/22 04:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92587089

Sample: YGWC-28I		Lab ID: 92587089002		Collected: 02/08/22 16:17		Received: 02/09/22 10:18		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 12:28		
pH	6.34	Std. Units			1		02/09/22 12:28		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	31.8	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:14	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 18:35	7440-36-0	
Arsenic	0.0021J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:35	7440-38-2	B
Barium	0.083	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 18:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 18:35	7440-41-7	
Boron	2.4	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 18:35	7440-42-8	
Cadmium	0.00033J	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 18:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 18:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 18:35	7439-92-1	
Lithium	0.0076J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 18:35	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 18:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 18:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 18:35	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:18	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	206	mg/L	10.0	10.0	1		02/14/22 15:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	15.2	mg/L	1.0	0.60	1		02/15/22 04:59	16887-00-6	
Fluoride	0.063J	mg/L	0.10	0.050	1		02/15/22 04:59	16984-48-8	
Sulfate	8.1	mg/L	1.0	0.50	1		02/15/22 04:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92587089

Sample: AP-2-DUP-1		Lab ID: 92587089003		Collected: 02/08/22 00:00	Received: 02/09/22 10:18	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	31.3	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:18	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.0011J	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 18:59	7440-36-0		
Arsenic	0.0022J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:59	7440-38-2	B	
Barium	0.083	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 18:59	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 18:59	7440-41-7		
Boron	2.4	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 18:59	7440-42-8		
Cadmium	0.00030J	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 18:59	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 18:59	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 18:59	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 18:59	7439-92-1		
Lithium	0.0076J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 18:59	7439-93-2		
Molybdenum	0.0012J	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 18:59	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 18:59	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 18:59	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:21	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	202	mg/L	10.0	10.0	1		02/14/22 15:19			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	15.1	mg/L	1.0	0.60	1		02/15/22 05:13	16887-00-6		
Fluoride	0.063J	mg/L	0.10	0.050	1		02/15/22 05:13	16984-48-8		
Sulfate	8.1	mg/L	1.0	0.50	1		02/15/22 05:13	14808-79-8		

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92587089

Sample: YGWC-29I		Lab ID: 92587089004		Collected: 02/08/22 14:02		Received: 02/09/22 10:18		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 12:28		
pH	5.88	Std. Units			1		02/09/22 12:28		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	9.3	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:33	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:05	7440-36-0	
Arsenic	0.0033J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:05	7440-38-2	B
Barium	0.057	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:05	7440-41-7	
Boron	0.71	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 19:05	7440-42-8	
Cadmium	0.00019J	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:05	7439-92-1	
Lithium	0.0064J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:05	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:23	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	120	mg/L	10.0	10.0	1		02/14/22 15:19		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.5	mg/L	1.0	0.60	1		02/15/22 05:55	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		02/15/22 05:55	16984-48-8	
Sulfate	22.9	mg/L	1.0	0.50	1		02/15/22 05:55	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92587089

Sample: AP-2-FB-1		Lab ID: 92587089005		Collected: 02/08/22 15:35		Received: 02/09/22 10:18		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:53	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:11	7440-36-0	
Arsenic	0.0033J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:11	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:11	7440-41-7	
Boron	0.014J	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 19:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:11	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:26	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/14/22 15:19		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/15/22 06:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 06:09	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/15/22 06:09	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92587089

Sample: YGWC-27S		Lab ID: 92587089006		Collected: 02/08/22 17:37		Received: 02/09/22 10:18		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 12:28		
pH	6.22	Std. Units			1		02/09/22 12:28		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	27.2	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 20:58	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:29	7440-36-0	
Arsenic	0.0019J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:29	7440-38-2	B
Barium	0.068	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:29	7440-41-7	
Boron	1.1	mg/L	0.20	0.043	5	02/23/22 14:19	02/24/22 12:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:29	7440-47-3	
Cobalt	0.0017J	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:29	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:29	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:28	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	159	mg/L	10.0	10.0	1		02/14/22 15:19		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	13.0	mg/L	1.0	0.60	1		02/15/22 06:51	16887-00-6	
Fluoride	0.087J	mg/L	0.10	0.050	1		02/15/22 06:51	16984-48-8	
Sulfate	16.3	mg/L	1.0	0.50	1		02/15/22 06:51	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92587089

Sample: AP-2-EB-1		Lab ID: 92587089007		Collected: 02/08/22 18:27		Received: 02/09/22 10:18		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:02	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:35	7440-36-0		
Arsenic	0.0027J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:35	7440-38-2	B	
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:35	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:35	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 19:35	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:35	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:35	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:35	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:35	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:35	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:35	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:35	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:35	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:31	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/14/22 15:19			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/15/22 07:05	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 07:05	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		02/15/22 07:05	14808-79-8		

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92587089

Sample: AP-2-EB-2 Lab ID: 92587089008 Collected: 02/09/22 18:45 Received: 02/10/22 17:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:40	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:11	7440-36-0	
Arsenic	0.0038J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:11	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:11	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:11	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:39	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/15/22 16:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 12:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 12:36	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 12:36	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92587089

Sample: AP-2-FB-2 Lab ID: 92587089009 Collected: 02/09/22 16:45 Received: 02/10/22 17:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:45	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:17	7440-36-0	
Arsenic	0.0038J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:17	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:17	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:42	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/15/22 16:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 12:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 12:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 12:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92587089

Sample: YGWC-26S		Lab ID: 92587089010		Collected: 02/10/22 09:15		Received: 02/11/22 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/14/22 11:29		
pH	5.31	Std. Units			1		02/14/22 11:29		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	11.6	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 22:04	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:53	7440-36-0	
Arsenic	0.0032J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:53	7440-38-2	B
Barium	0.027	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:53	7440-39-3	
Beryllium	0.000093J	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:53	7440-41-7	
Boron	0.79	mg/L	0.20	0.043	5	02/23/22 14:19	02/24/22 13:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:53	7440-47-3	
Cobalt	0.0026J	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:53	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:53	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:44	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	168	mg/L	10.0	10.0	1		02/17/22 16:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	14.0	mg/L	1.0	0.60	1		02/19/22 03:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 03:43	16984-48-8	
Sulfate	86.5	mg/L	1.0	0.50	1		02/19/22 03:43	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92587089

Sample: YGWC-261		Lab ID: 92587089011		Collected: 02/10/22 10:25		Received: 02/11/22 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/14/22 11:30		
pH	5.84	Std. Units			1		02/14/22 11:30		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	16.4	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 22:09	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:59	7440-36-0	
Arsenic	0.0028J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:59	7440-38-2	B
Barium	0.063	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:59	7440-41-7	
Boron	0.79	mg/L	0.20	0.043	5	02/23/22 14:19	02/24/22 13:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:59	7439-92-1	
Lithium	0.0086J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:59	7439-98-7	
Selenium	0.0042J	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:59	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:47	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	207	mg/L	10.0	10.0	1		02/17/22 16:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	15.4	mg/L	1.0	0.60	1		02/19/22 03:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 03:59	16984-48-8	
Sulfate	81.8	mg/L	1.0	0.50	1		02/19/22 03:59	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92587089

Sample: YGWC-271		Lab ID: 92587089012		Collected: 02/10/22 11:45		Received: 02/11/22 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/14/22 11:30		
pH	6.23	Std. Units			1		02/14/22 11:30		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	27.4	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 22:23	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 21:05	7440-36-0	
Arsenic	0.0040J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 21:05	7440-38-2	B
Barium	0.079	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 21:05	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 21:05	7440-41-7	
Boron	2.5	mg/L	0.20	0.043	5	02/23/22 14:19	02/24/22 13:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 21:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 21:05	7440-47-3	
Cobalt	0.0051	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 21:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 21:05	7439-92-1	
Lithium	0.0072J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 21:05	7439-93-2	
Molybdenum	0.0018J	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 21:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 21:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 21:05	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:50	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	190	mg/L	10.0	10.0	1		02/17/22 16:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	13.1	mg/L	1.0	0.60	1		02/19/22 04:14	16887-00-6	
Fluoride	0.059J	mg/L	0.10	0.050	1		02/19/22 04:14	16984-48-8	
Sulfate	2.4	mg/L	1.0	0.50	1		02/19/22 04:14	14808-79-8	

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92587089

QC Batch:	680120	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007, 92587089008, 92587089009, 92587089010, 92587089011, 92587089012

METHOD BLANK: 3558408 Matrix: Water
Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007, 92587089008, 92587089009, 92587089010, 92587089011, 92587089012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/23/22 19:59	

LABORATORY CONTROL SAMPLE: 3558409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558410 3558411

Parameter	Units	92587089004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	9.3	1	1	10.5	10.5	117	119	75-125	0	20	

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92587089

QC Batch: 680115 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007, 92587089008, 92587089009, 92587089010, 92587089011, 92587089012

METHOD BLANK: 3558393 Matrix: Water
Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007, 92587089008, 92587089009, 92587089010, 92587089011, 92587089012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/23/22 18:18	
Arsenic	mg/L	ND	0.0050	0.0011	02/23/22 18:18	
Barium	mg/L	ND	0.0050	0.00067	02/23/22 18:18	
Beryllium	mg/L	ND	0.00050	0.000054	02/23/22 18:18	
Boron	mg/L	ND	0.040	0.0086	02/23/22 18:18	
Cadmium	mg/L	ND	0.00050	0.00011	02/23/22 18:18	
Chromium	mg/L	ND	0.0050	0.0011	02/23/22 18:18	
Cobalt	mg/L	ND	0.0050	0.00039	02/23/22 18:18	
Lead	mg/L	ND	0.0010	0.00089	02/23/22 18:18	
Lithium	mg/L	ND	0.030	0.00073	02/23/22 18:18	
Molybdenum	mg/L	ND	0.010	0.00074	02/23/22 18:18	
Selenium	mg/L	ND	0.0050	0.0014	02/23/22 18:18	
Thallium	mg/L	ND	0.0010	0.00018	02/23/22 18:18	

LABORATORY CONTROL SAMPLE: 3558394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.11	106	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	111	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Selenium	mg/L	0.1	0.11	105	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558395 3558396

Parameter	Units	92587089002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	105	108	75-125	3	20	

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QUALITY CONTROL DATA

Project: YATES AP-2

Pace Project No.: 92587089

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558395 3558396												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92587089002 Result	Spike Conc.	Spike Conc.	MS Result							
Arsenic	mg/L	0.0021J	0.1	0.1	0.10	0.11	103	105	75-125	2	20	
Barium	mg/L	0.083	0.1	0.1	0.18	0.18	92	100	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	3	20	
Boron	mg/L	2.4	1	1	3.4	3.6	100	115	75-125	4	20	
Cadmium	mg/L	0.00033J	0.1	0.1	0.10	0.10	101	102	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	104	105	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Lithium	mg/L	0.0076J	0.1	0.1	0.11	0.11	103	103	75-125	0	20	
Molybdenum	mg/L	0.0011J	0.1	0.1	0.11	0.11	107	109	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.097	97	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92587089

QC Batch:	678406	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007, 92587089008, 92587089009, 92587089010, 92587089011, 92587089012

METHOD BLANK: 3550211 Matrix: Water
Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007, 92587089008, 92587089009, 92587089010, 92587089011, 92587089012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/16/22 14:36	

LABORATORY CONTROL SAMPLE: 3550212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550213 3550214

Parameter	Units	92587089001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0019	0.0018	77	74	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92587089

QC Batch: 678110 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: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007

METHOD BLANK: 3548928 Matrix: Water
Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/14/22 15:13	

LABORATORY CONTROL SAMPLE: 3548929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	80-120	

SAMPLE DUPLICATE: 3548930

Parameter	Units	92587701001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	299	297	1	25	

SAMPLE DUPLICATE: 3548931

Parameter	Units	92587089005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92587089

QC Batch: 678370 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: 92587089008, 92587089009

METHOD BLANK: 3550019 Matrix: Water

Associated Lab Samples: 92587089008, 92587089009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/15/22 16:29	

LABORATORY CONTROL SAMPLE: 3550020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	80-120	

SAMPLE DUPLICATE: 3550021

Parameter	Units	92587705001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	36.0	37.0	3	25	

SAMPLE DUPLICATE: 3550022

Parameter	Units	92587091011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92587089

QC Batch: 679091 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: 92587089010, 92587089011, 92587089012

METHOD BLANK: 3553375 Matrix: Water
Associated Lab Samples: 92587089010, 92587089011, 92587089012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/17/22 16:05	

LABORATORY CONTROL SAMPLE: 3553376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	374	94	80-120	

SAMPLE DUPLICATE: 3553377

Parameter	Units	92587319023 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	299	300	0	25	

SAMPLE DUPLICATE: 3553378

Parameter	Units	92587089012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	190	186	2	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92587089

QC Batch: 678235	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: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007

METHOD BLANK: 3549593 Matrix: Water
Associated Lab Samples: 92587089001, 92587089002, 92587089003, 92587089004, 92587089005, 92587089006, 92587089007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/15/22 01:58	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 01:58	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 01:58	

LABORATORY CONTROL SAMPLE: 3549594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.8	104	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549595 3549596

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585602018 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	10.2	50	50	64.0	63.6	108	107	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	106	105	90-110	1	10		
Sulfate	mg/L	20.0	50	50	73.7	73.7	107	107	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549597 3549598

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92587089005 Result	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	ND	50	50	52.3	53.6	105	107	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	107	90-110	3	10		
Sulfate	mg/L	ND	50	50	52.2	53.5	104	107	90-110	2	10		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92587089

QC Batch: 678537 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: 92587089008, 92587089009

METHOD BLANK: 3551059 Matrix: Water
Associated Lab Samples: 92587089008, 92587089009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/16/22 09:35	
Fluoride	mg/L	ND	0.10	0.050	02/16/22 09:35	
Sulfate	mg/L	ND	1.0	0.50	02/16/22 09:35	

LABORATORY CONTROL SAMPLE: 3551060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551061 3551062

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585949014	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	ND	50	50	50	62.2	59.5	124	119	90-110	4	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.5	3.0	2.9	120	114	90-110	5	10	M1
Sulfate	mg/L	ND	50	50	50	62.0	59.6	124	119	90-110	4	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551063 3551064

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92587091007	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	1.0	50	50	50	63.8	61.5	126	121	90-110	4	10	M1
Fluoride	mg/L	0.057J	2.5	2.5	2.5	3.1	3.0	123	119	90-110	3	10	M1
Sulfate	mg/L	9.3	50	50	50	71.8	69.6	125	121	90-110	3	10	M1

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92587089

QC Batch: 679328 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: 92587089010, 92587089011, 92587089012

METHOD BLANK: 3554532 Matrix: Water
Associated Lab Samples: 92587089010, 92587089011, 92587089012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/18/22 20:56	
Fluoride	mg/L	ND	0.10	0.050	02/18/22 20:56	
Sulfate	mg/L	ND	1.0	0.50	02/18/22 20:56	

LABORATORY CONTROL SAMPLE: 3554533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554534 3554535

Parameter	Units	92588782001		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	4.2	50	50	54.3	55.2	100	102	90-110	2	10		
Fluoride	mg/L	0.14	2.5	2.5	2.6	2.7	99	102	90-110	2	10		
Sulfate	mg/L	3.1	50	50	53.1	54.1	100	102	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554536 3554537

Parameter	Units	92587881007		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	8.9	50	50	59.0	59.3	100	101	90-110	0	10		
Fluoride	mg/L	0.071J	2.5	2.5	2.6	2.6	100	101	90-110	1	10		
Sulfate	mg/L	70.0	50	50	113	113	87	87	90-110	0	10 M1		

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QUALIFIERS

Project: YATES AP-2

Pace Project No.: 92587089

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.

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: YATES AP-2
Pace Project No.: 92587089

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587089001	YGWC-28S				
92587089002	YGWC-28I				
92587089004	YGWC-29I				
92587089006	YGWC-27S				
92587089010	YGWC-26S				
92587089011	YGWC-26I				
92587089012	YGWC-27I				
92587089001	YGWC-28S	EPA 3010A	680120	EPA 6010D	680402
92587089002	YGWC-28I	EPA 3010A	680120	EPA 6010D	680402
92587089003	AP-2-DUP-1	EPA 3010A	680120	EPA 6010D	680402
92587089004	YGWC-29I	EPA 3010A	680120	EPA 6010D	680402
92587089005	AP-2-FB-1	EPA 3010A	680120	EPA 6010D	680402
92587089006	YGWC-27S	EPA 3010A	680120	EPA 6010D	680402
92587089007	AP-2-EB-1	EPA 3010A	680120	EPA 6010D	680402
92587089008	AP-2-EB-2	EPA 3010A	680120	EPA 6010D	680402
92587089009	AP-2-FB-2	EPA 3010A	680120	EPA 6010D	680402
92587089010	YGWC-26S	EPA 3010A	680120	EPA 6010D	680402
92587089011	YGWC-26I	EPA 3010A	680120	EPA 6010D	680402
92587089012	YGWC-27I	EPA 3010A	680120	EPA 6010D	680402
92587089001	YGWC-28S	EPA 3005A	680115	EPA 6020B	680441
92587089002	YGWC-28I	EPA 3005A	680115	EPA 6020B	680441
92587089003	AP-2-DUP-1	EPA 3005A	680115	EPA 6020B	680441
92587089004	YGWC-29I	EPA 3005A	680115	EPA 6020B	680441
92587089005	AP-2-FB-1	EPA 3005A	680115	EPA 6020B	680441
92587089006	YGWC-27S	EPA 3005A	680115	EPA 6020B	680441
92587089007	AP-2-EB-1	EPA 3005A	680115	EPA 6020B	680441
92587089008	AP-2-EB-2	EPA 3005A	680115	EPA 6020B	680441
92587089009	AP-2-FB-2	EPA 3005A	680115	EPA 6020B	680441
92587089010	YGWC-26S	EPA 3005A	680115	EPA 6020B	680441
92587089011	YGWC-26I	EPA 3005A	680115	EPA 6020B	680441
92587089012	YGWC-27I	EPA 3005A	680115	EPA 6020B	680441
92587089001	YGWC-28S	EPA 7470A	678406	EPA 7470A	678665
92587089002	YGWC-28I	EPA 7470A	678406	EPA 7470A	678665
92587089003	AP-2-DUP-1	EPA 7470A	678406	EPA 7470A	678665
92587089004	YGWC-29I	EPA 7470A	678406	EPA 7470A	678665
92587089005	AP-2-FB-1	EPA 7470A	678406	EPA 7470A	678665
92587089006	YGWC-27S	EPA 7470A	678406	EPA 7470A	678665
92587089007	AP-2-EB-1	EPA 7470A	678406	EPA 7470A	678665
92587089008	AP-2-EB-2	EPA 7470A	678406	EPA 7470A	678665
92587089009	AP-2-FB-2	EPA 7470A	678406	EPA 7470A	678665
92587089010	YGWC-26S	EPA 7470A	678406	EPA 7470A	678665
92587089011	YGWC-26I	EPA 7470A	678406	EPA 7470A	678665
92587089012	YGWC-27I	EPA 7470A	678406	EPA 7470A	678665
92587089001	YGWC-28S	SM 2540C-2015	678110		
92587089002	YGWC-28I	SM 2540C-2015	678110		
92587089003	AP-2-DUP-1	SM 2540C-2015	678110		
92587089004	YGWC-29I	SM 2540C-2015	678110		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2
Pace Project No.: 92587089

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587089005	AP-2-FB-1	SM 2540C-2015	678110		
92587089006	YGWC-27S	SM 2540C-2015	678110		
92587089007	AP-2-EB-1	SM 2540C-2015	678110		
92587089008	AP-2-EB-2	SM 2540C-2015	678370		
92587089009	AP-2-FB-2	SM 2540C-2015	678370		
92587089010	YGWC-26S	SM 2540C-2015	679091		
92587089011	YGWC-26I	SM 2540C-2015	679091		
92587089012	YGWC-27I	SM 2540C-2015	679091		
92587089001	YGWC-28S	EPA 300.0 Rev 2.1 1993	678235		
92587089002	YGWC-28I	EPA 300.0 Rev 2.1 1993	678235		
92587089003	AP-2-DUP-1	EPA 300.0 Rev 2.1 1993	678235		
92587089004	YGWC-29I	EPA 300.0 Rev 2.1 1993	678235		
92587089005	AP-2-FB-1	EPA 300.0 Rev 2.1 1993	678235		
92587089006	YGWC-27S	EPA 300.0 Rev 2.1 1993	678235		
92587089007	AP-2-EB-1	EPA 300.0 Rev 2.1 1993	678235		
92587089008	AP-2-EB-2	EPA 300.0 Rev 2.1 1993	678537		
92587089009	AP-2-FB-2	EPA 300.0 Rev 2.1 1993	678537		
92587089010	YGWC-26S	EPA 300.0 Rev 2.1 1993	679328		
92587089011	YGWC-26I	EPA 300.0 Rev 2.1 1993	679328		
92587089012	YGWC-27I	EPA 300.0 Rev 2.1 1993	679328		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO# : 92587089



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/9/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 083 Type of Ice: Wet Blue None

Cooler Temp: 2.3 Correction Factor: Add/Subtract (°C) +0.2

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

Cooler Temp Corrected (°C): 2.5

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 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: _____



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
 Page 2 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

*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

Project #

WO# : 92587089

PM: NMG

Due Date: 02/23/22

CLIENT: GA-GA Power

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)	AG3A(DG3A)-250 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)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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 DEHNR 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: **Section B** Required Project Information: **Section C** Invoice Information:

Company: GA Power		Report To: SCS Contacts	Attention: Southern Co.	Regulatory Agency:
Address: Atlanta, GA		Copy To: Arcadis Contacts	Company Name:	State / Location:
Phone:	Far	Purchase Order #:	Address:	Georgia
Requested Due Date:		Project Name: Plant Yates AP-2	Pace Quote:	
		Project Number:	Pace Project Manager: Nicole D'Onio	
			Pace Profile #: 10840	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Water Wastewater Surface Water Other Thru	CODE DN WT WTW P S L AP OT TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test	Request Analytical Filtered (Y/N)	Residual Chlorine (Y/N)	pH:				
				MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME			DATE	TIME	Unpreserved	H2SO4	HNO3	HCl					NaOH	Na2S2O3	Methanol	Other
1	YGWC-265	Water	WT G																				
2	YGWC-201	Water	WT G																				
3	YGWC-275	Water	WT G	2/5/21	13:37				3														
4	YGWC-221	Water	WT G						3														
5	YGWC-285	Water	WT G	2/8/21	15:21				3									6.30					
6	YGWC-281	Water	WT G	2/11/21	14:47				3									6.34					
7	AP-2-DUP-1	Water	WT G	2/8/21					3														
8	YGWC-291	Water	WT G	2/8/21	14:02				3									5.88					
9	AP-2-FB-1	Water	WT G	2/8/21	15:29				3														
10	AP-2-FB-2	Water	WT G						3														
11	AP-2-FB-1	Water	WT G	2/8/21	15:35				3														
12	AP-2-FB-2	Water	WT G						3														

SAMPLER NAME AND SIGNATURE		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
PRINT Name of SAMPLER: Mark Chest		2/9/21	8:25	Mark Chest	2/9/21	8:25	Received on Ice (Y/N)
SIGNATURE of SAMPLER: <i>[Signature]</i>		2/9/21	8:25	Mark Chest	2/9/21	8:25	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: Phone: Requested Due Date:	Section B Required Project Information:	Report To: SCS Contacts Copy To: Arcadis Contacts Purchase Order #: Project Name: Plant Yates AP-2 Project Number:	Section C Invoice Information:	Attention: Southern Co. Company Name: Address: Pace Quote: Pace Project Manager: Nicole D'Oleo Pace Profile #: 10840	Regulatory Agency State / Location Georgia
--	---	---	--	--	---	--

ITEM #	SAMPLE ID (A-Z, 0-9 / -) One Character per box. Sample IDs must be unique	MATRIX Disturb Water Water Waste Water Process Sewage Oil Wipes Air Dust Tissue	CODE DW WT WW P SL CL WP AP MS GT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSES TEST			RESIDUAL CHLORINE (Y/N)	PH							
						DATE	TIME						Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Y/N			Y/N						
1	YGWC-265			WT	G																										
2	YGWC-281			WT	G																										
3	YGWC-275			WT	G			2/8/2017	1737																						
4	YGWC-291			WT	G																										
5	YGWC-285			WT	G																										
6	YGWC-281			WT	G																										
7	AP-2-DUP-1			WT	G																										
8	YGWC-291			WT	G																										
9	AP-2-EB-1			WT	G			2/8/2017	827																						
10	AP-2-EB-2			WT	G																										
11	AP-2-FB-1			WT	G																										
12	AP-2-FB-2			WT	G																										

App III Metals: Boron (Bo), Calcium (Ca), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl), Vanadium (V), Zinc (Zn), Mercury (Hg)
 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), Thallium (Tl), Vanadium (V), Zinc (Zn), Mercury (Hg)
 App V: Metals: 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl), Vanadium (V), Zinc (Zn), Mercury (Hg)

RELINQUISHED BY / AFFILIATION: Arcadis
 DATE: 2/19/12
 TIME: 10:18

ACCEPTED BY / AFFILIATION: Arcadis
 DATE: 2/19/12
 TIME: 08:28

SAMPLER NAME AND SIGNATURE: Jessica Verna
 PRINT Name of SAMPLER: Jessica Verna
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 2/19/12

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

March 17, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: YATES AP-2 RAD
Pace Project No.: 92587078

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 2022. 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,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Anna Bottum, ERM
Andrea Brazell, ERM
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Lacy Smith, ERM
Samantha Thomas
Caitlin Tillema, ERM
Christine Weaver, ERM

Albert Zumbuhl, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
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
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587078001	YGWC-28S	Water	02/08/22 15:21	02/09/22 10:18
92587078002	YGWC-28I	Water	02/08/22 16:17	02/09/22 10:18
92587078003	AP-2-DUP-1	Water	02/08/22 00:00	02/09/22 10:18
92587078004	YGWC-29I	Water	02/08/22 14:02	02/09/22 10:18
92587078005	AP-2-FB-1	Water	02/08/22 15:35	02/09/22 10:18
92587078006	YGWC-27S	Water	02/08/22 17:37	02/09/22 10:18
92587078007	AP-2-EB-1	Water	02/08/22 18:27	02/09/22 10:18
92587078008	AP-2-EB-2	Water	02/09/22 18:45	02/10/22 17:00
92587078009	AP-2-FB-2	Water	02/09/22 16:45	02/10/22 17:00
92587078010	YGWC-26S	Water	02/10/22 09:15	02/11/22 16:45
92587078011	YGWC-26I	Water	02/10/22 10:25	02/11/22 16:45
92587078012	YGWC-27I	Water	02/10/22 11:45	02/11/22 16:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587078001	YGWC-28S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078002	YGWC-28I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078003	AP-2-DUP-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078004	YGWC-29I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078005	AP-2-FB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078006	YGWC-27S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078007	AP-2-EB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078008	AP-2-EB-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078009	AP-2-FB-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078010	YGWC-26S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078011	YGWC-26I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587078012	YGWC-27I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587078001	YGWC-28S					
EPA 9315	Radium-226	0.273 ± 0.141 (0.182) C:84% T:NA	pCi/L		03/10/22 08:55	
EPA 9320	Radium-228	0.691 ± 0.351 (0.604) C:78% T:90%	pCi/L		03/07/22 11:51	
Total Radium Calculation	Total Radium	0.964 ± 0.492 (0.786)	pCi/L		03/14/22 21:54	
92587078002	YGWC-28I					
EPA 9315	Radium-226	0.0326 ± 0.0715 (0.169) C:92% T:NA	pCi/L		03/10/22 08:55	
EPA 9320	Radium-228	1.04 ± 0.575 (1.05) C:80% T:87%	pCi/L		03/07/22 15:12	
Total Radium Calculation	Total Radium	1.07 ± 0.647 (1.22)	pCi/L		03/14/22 21:54	
92587078003	AP-2-DUP-1					
EPA 9315	Radium-226	0.0621 ± 0.0828 (0.173) C:94% T:NA	pCi/L		03/10/22 09:20	
EPA 9320	Radium-228	0.334 ± 0.282 (0.556) C:74% T:89%	pCi/L		03/07/22 11:48	
Total Radium Calculation	Total Radium	0.396 ± 0.365 (0.729)	pCi/L		03/14/22 21:54	
92587078004	YGWC-29I					
EPA 9315	Radium-226	0.0450 ± 0.0839 (0.192) C:93% T:NA	pCi/L		03/10/22 09:21	
EPA 9320	Radium-228	0.0585 ± 0.262 (0.600) C:77% T:88%	pCi/L		03/07/22 11:48	
Total Radium Calculation	Total Radium	0.104 ± 0.346 (0.792)	pCi/L		03/14/22 21:54	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587078005	AP-2-FB-1					
EPA 9315	Radium-226	0.0348 ± 0.0741 (0.174) C:95% T:NA	pCi/L		03/10/22 09:21	
EPA 9320	Radium-228	0.212 ± 0.290 (0.621) C:81% T:94%	pCi/L		03/07/22 11:48	
Total Radium Calculation	Total Radium	0.247 ± 0.364 (0.795)	pCi/L		03/14/22 21:54	
92587078006	YGWC-27S					
EPA 9315	Radium-226	0.102 ± 0.108 (0.219) C:96% T:NA	pCi/L		03/10/22 09:21	
EPA 9320	Radium-228	0.679 ± 0.475 (0.941) C:78% T:87%	pCi/L		03/07/22 11:54	
Total Radium Calculation	Total Radium	0.781 ± 0.583 (1.16)	pCi/L		03/14/22 21:54	
92587078007	AP-2-EB-1					
EPA 9315	Radium-226	0.0328 ± 0.0804 (0.192) C:93% T:NA	pCi/L		03/10/22 09:21	
EPA 9320	Radium-228	-0.0965 ± 0.417 (0.969) C:78% T:88%	pCi/L		03/07/22 11:54	
Total Radium Calculation	Total Radium	0.0328 ± 0.497 (1.16)	pCi/L		03/14/22 21:54	
92587078008	AP-2-EB-2					
EPA 9315	Radium-226	0.0200 ± 0.0677 (0.170) C:99% T:NA	pCi/L		03/11/22 07:49	
EPA 9320	Radium-228	0.492 ± 0.327 (0.614) C:79% T:90%	pCi/L		03/04/22 14:05	
Total Radium Calculation	Total Radium	0.512 ± 0.395 (0.784)	pCi/L		03/14/22 21:54	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2 RAD
Pace Project No.: 92587078

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587078009	AP-2-FB-2					
EPA 9315	Radium-226	0.0502 ± 0.0688 (0.144) C:97% T:NA	pCi/L		03/11/22 07:50	
EPA 9320	Radium-228	-0.122 ± 0.281 (0.689) C:77% T:88%	pCi/L		03/04/22 14:05	
Total Radium Calculation	Total Radium	0.0502 ± 0.350 (0.833)	pCi/L		03/14/22 21:54	
92587078010	YGWC-26S					
EPA 9315	Radium-226	0.0338 ± 0.0890 (0.215) C:99% T:NA	pCi/L		03/08/22 08:27	
EPA 9320	Radium-228	0.397 ± 0.385 (0.787) C:94% T:88%	pCi/L		03/07/22 18:22	
Total Radium Calculation	Total Radium	0.431 ± 0.474 (1.00)	pCi/L		03/13/22 14:44	
92587078011	YGWC-26I					
EPA 9315	Radium-226	0.149 ± 0.125 (0.232) C:101% T:NA	pCi/L		03/08/22 08:27	
EPA 9320	Radium-228	-0.127 ± 0.359 (0.876) C:87% T:88%	pCi/L		03/07/22 18:22	
Total Radium Calculation	Total Radium	0.149 ± 0.484 (1.11)	pCi/L		03/13/22 14:44	
92587078012	YGWC-27I					
EPA 9315	Radium-226	-0.0234 ± 0.104 (0.288) C:93% T:NA	pCi/L		03/08/22 08:28	
EPA 9320	Radium-228	1.23 ± 0.543 (0.873) C:85% T:84%	pCi/L		03/07/22 18:23	
Total Radium Calculation	Total Radium	1.23 ± 0.647 (1.16)	pCi/L		03/13/22 14:44	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: YGWC-28S **Lab ID: 92587078001** Collected: 02/08/22 15:21 Received: 02/09/22 10:18 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	0.273 ± 0.141 (0.182) C:84% T:NA	pCi/L	03/10/22 08:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.691 ± 0.351 (0.604) C:78% T:90%	pCi/L	03/07/22 11:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.964 ± 0.492 (0.786)	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: YGWC-28I **Lab ID: 92587078002** Collected: 02/08/22 16:17 Received: 02/09/22 10:18 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	0.0326 ± 0.0715 (0.169) C:92% T:NA	pCi/L	03/10/22 08:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.04 ± 0.575 (1.05) C:80% T:87%	pCi/L	03/07/22 15:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.07 ± 0.647 (1.22)	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: AP-2-DUP-1 **Lab ID: 92587078003** Collected: 02/08/22 00:00 Received: 02/09/22 10:18 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	0.0621 ± 0.0828 (0.173) C:94% T:NA	pCi/L	03/10/22 09:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.334 ± 0.282 (0.556) C:74% T:89%	pCi/L	03/07/22 11:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.396 ± 0.365 (0.729)	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: YGWC-29I **Lab ID: 92587078004** Collected: 02/08/22 14:02 Received: 02/09/22 10:18 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	0.0450 ± 0.0839 (0.192) C:93% T:NA	pCi/L	03/10/22 09:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0585 ± 0.262 (0.600) C:77% T:88%	pCi/L	03/07/22 11:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.104 ± 0.346 (0.792)	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: AP-2-FB-1 **Lab ID: 92587078005** Collected: 02/08/22 15:35 Received: 02/09/22 10:18 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	0.0348 ± 0.0741 (0.174) C:95% T:NA	pCi/L	03/10/22 09:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.212 ± 0.290 (0.621) C:81% T:94%	pCi/L	03/07/22 11:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.247 ± 0.364 (0.795)	pCi/L	03/14/22 21:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: YGWC-27S **Lab ID: 92587078006** Collected: 02/08/22 17:37 Received: 02/09/22 10:18 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	0.102 ± 0.108 (0.219) C:96% T:NA	pCi/L	03/10/22 09:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.679 ± 0.475 (0.941) C:78% T:87%	pCi/L	03/07/22 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.781 ± 0.583 (1.16)	pCi/L	03/14/22 21:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: AP-2-EB-1 **Lab ID: 92587078007** Collected: 02/08/22 18:27 Received: 02/09/22 10:18 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	0.0328 ± 0.0804 (0.192) C:93% T:NA	pCi/L	03/10/22 09:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0965 ± 0.417 (0.969) C:78% T:88%	pCi/L	03/07/22 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0328 ± 0.497 (1.16)	pCi/L	03/14/22 21:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: AP-2-EB-2 **Lab ID: 92587078008** Collected: 02/09/22 18:45 Received: 02/10/22 17:00 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	0.0200 ± 0.0677 (0.170) C:99% T:NA	pCi/L	03/11/22 07:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.492 ± 0.327 (0.614) C:79% T:90%	pCi/L	03/04/22 14:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.512 ± 0.395 (0.784)	pCi/L	03/14/22 21:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: AP-2-FB-2 **Lab ID: 92587078009** Collected: 02/09/22 16:45 Received: 02/10/22 17:00 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	0.0502 ± 0.0688 (0.144) C:97% T:NA	pCi/L	03/11/22 07:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.122 ± 0.281 (0.689) C:77% T:88%	pCi/L	03/04/22 14:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0502 ± 0.350 (0.833)	pCi/L	03/14/22 21:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: YGWC-26S **Lab ID: 92587078010** Collected: 02/10/22 09:15 Received: 02/11/22 16:45 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	0.0338 ± 0.0890 (0.215) C:99% T:NA	pCi/L	03/08/22 08:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.397 ± 0.385 (0.787) C:94% T:88%	pCi/L	03/07/22 18:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.431 ± 0.474 (1.00)	pCi/L	03/13/22 14:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: YGWC-261 **Lab ID: 92587078011** Collected: 02/10/22 10:25 Received: 02/11/22 16:45 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	0.149 ± 0.125 (0.232) C:101% T:NA	pCi/L	03/08/22 08:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.127 ± 0.359 (0.876) C:87% T:88%	pCi/L	03/07/22 18:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.149 ± 0.484 (1.11)	pCi/L	03/13/22 14:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

Sample: YGWC-271 **Lab ID: 92587078012** Collected: 02/10/22 11:45 Received: 02/11/22 16:45 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	-0.0234 ± 0.104 (0.288) C:93% T:NA	pCi/L	03/08/22 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.23 ± 0.543 (0.873) C:85% T:84%	pCi/L	03/07/22 18:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.23 ± 0.647 (1.16)	pCi/L	03/13/22 14:44	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

QC Batch: 485935

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587078001, 92587078002, 92587078003, 92587078004, 92587078005, 92587078006, 92587078007, 92587078008, 92587078009

METHOD BLANK: 2349823

Matrix: Water

Associated Lab Samples: 92587078001, 92587078002, 92587078003, 92587078004, 92587078005, 92587078006, 92587078007, 92587078008, 92587078009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0233 ± 0.0709 (0.175) C:97% T:NA	pCi/L	03/10/22 08:55	

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: YATES AP-2 RAD

Pace Project No.: 92587078

QC Batch: 486611

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587078010, 92587078011, 92587078012

METHOD BLANK: 2353259

Matrix: Water

Associated Lab Samples: 92587078010, 92587078011, 92587078012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0325 ± 0.0552 (0.191) C:101% T:NA	pCi/L	03/08/22 08:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RAD

Pace Project No.: 92587078

QC Batch: 486658

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587078010, 92587078011, 92587078012

METHOD BLANK: 2353494

Matrix: Water

Associated Lab Samples: 92587078010, 92587078011, 92587078012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.240 ± 0.292 (0.616) C:84% T:82%	pCi/L	03/07/22 15:13	

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: YATES AP-2 RAD

Pace Project No.: 92587078

QC Batch: 486656

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587078001, 92587078002, 92587078003, 92587078004, 92587078005, 92587078006, 92587078007

METHOD BLANK: 2353491

Matrix: Water

Associated Lab Samples: 92587078001, 92587078002, 92587078003, 92587078004, 92587078005, 92587078006, 92587078007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.534 ± 0.356 (0.681) C:77% T:89%	pCi/L	03/07/22 11:50	

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: YATES AP-2 RAD

Pace Project No.: 92587078

QC Batch: 486654

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587078008, 92587078009

METHOD BLANK: 2353485

Matrix: Water

Associated Lab Samples: 92587078008, 92587078009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0646 ± 0.235 (0.535) C:84% T:93%	pCi/L	03/04/22 10:45	

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: YATES AP-2 RAD

Pace Project No.: 92587078

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

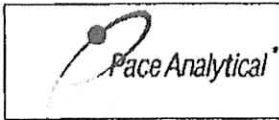
Project: YATES AP-2 RAD

Pace Project No.: 92587078

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587078001	YGWC-28S	EPA 9315	485935		
92587078002	YGWC-28I	EPA 9315	485935		
92587078003	AP-2-DUP-1	EPA 9315	485935		
92587078004	YGWC-29I	EPA 9315	485935		
92587078005	AP-2-FB-1	EPA 9315	485935		
92587078006	YGWC-27S	EPA 9315	485935		
92587078007	AP-2-EB-1	EPA 9315	485935		
92587078008	AP-2-EB-2	EPA 9315	485935		
92587078009	AP-2-FB-2	EPA 9315	485935		
92587078010	YGWC-26S	EPA 9315	486611		
92587078011	YGWC-26I	EPA 9315	486611		
92587078012	YGWC-27I	EPA 9315	486611		
92587078001	YGWC-28S	EPA 9320	486656		
92587078002	YGWC-28I	EPA 9320	486656		
92587078003	AP-2-DUP-1	EPA 9320	486656		
92587078004	YGWC-29I	EPA 9320	486656		
92587078005	AP-2-FB-1	EPA 9320	486656		
92587078006	YGWC-27S	EPA 9320	486656		
92587078007	AP-2-EB-1	EPA 9320	486656		
92587078008	AP-2-EB-2	EPA 9320	486654		
92587078009	AP-2-FB-2	EPA 9320	486654		
92587078010	YGWC-26S	EPA 9320	486658		
92587078011	YGWC-26I	EPA 9320	486658		
92587078012	YGWC-27I	EPA 9320	486658		
92587078001	YGWC-28S	Total Radium Calculation	490237		
92587078002	YGWC-28I	Total Radium Calculation	490237		
92587078003	AP-2-DUP-1	Total Radium Calculation	490237		
92587078004	YGWC-29I	Total Radium Calculation	490237		
92587078005	AP-2-FB-1	Total Radium Calculation	490237		
92587078006	YGWC-27S	Total Radium Calculation	490237		
92587078007	AP-2-EB-1	Total Radium Calculation	490237		
92587078008	AP-2-EB-2	Total Radium Calculation	490237		
92587078009	AP-2-FB-2	Total Radium Calculation	490237		
92587078010	YGWC-26S	Total Radium Calculation	489944		
92587078011	YGWC-26I	Total Radium Calculation	489944		
92587078012	YGWC-27I	Total Radium Calculation	489944		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92587078



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/9/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 083 Type of Ice: Wet Blue None

Cooler Temp: 2.3 Correction Factor: Add/Subtract (°C) +0.2

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

Cooler Temp Corrected (°C): 2.5

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 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: _____



Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: November 15, 2021
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.08

Issuing Authority:
Pace Carolinas Quality Office

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

Project #

WO# : 92587078

PM: NMG

Due Date: 03/02/22

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

CLIENT: GA-GA Power

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

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)	AG3A(DG3A)-250 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)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	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 DEHNR 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: _____
 Phone: _____
 Requested Due Date: _____

Section B Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Purchase Order #: _____
 Project Name: Plant Yates AP-2
 Project Number: _____

Section C Invoice Information:
 Attention: Southern Co.
 Address: _____
 Pace Quote: _____
 Pace Project Manager: Nicole DiIorio
 Pace Profile #: 10840

Regulatory Agency: _____
 State / Location: Georgia

Page: 1 Of 1

ITEM #	SAMPLE ID (A-Z, 0-9 /, .) Sample IDs must be unique	MATRIX Drying Water Water Waste Water Pretreated Sulfid Oil Wipe Air Other Thru	CODE DW WT WV P SL WP AR CT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Y/N	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	pH:								
						START	END							Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other			App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320										
1	YGWC-265			WT G	G	-	-	-	-	-	-	-	5																								
2	YGWC-281			WT G	G	-	-	-	-	-	-	-	5																								
3	YGWC-279			WT G	G	2/8/21	13:37	-	-	-	-	-	5																								
4	YGWC-271			WT G	G	-	-	-	-	-	-	-	5																								
5	YGWC-288			WT G	G	2/8/21	15:21	-	-	-	-	-	5																								
6	YGWC-281			WT G	G	2/11/21	14:17	-	-	-	-	-	5																								
7	AP-2-DUP-1			WT G	G	2/16/21	-	-	-	-	-	-	5																								
8	YGWC-291			WT G	G	2/18/21	14:02	-	-	-	-	-	5																								
9	AP-2-FB-1			WT G	G	2/8/21	15:29	-	-	-	-	-	5																								
10	AP-2-FB-2			WT G	G	-	-	-	-	-	-	-	5																								
11	AP-2-FB-1			WT G	G	2/15/21	15:35	-	-	-	-	-	5																								
12	AP-2-FB-2			WT G	G	-	-	-	-	-	-	-	5																								

ADDITIONAL COMMENTS:
 Arcadis
 2/9/22
 8:25
 2/9/22
 8:25
 2/9/21
 8:25
 2/9/21
 8:25

RELINQUISHED BY / AFFILIATION: Arcadis
DATE: 2/9/22
TIME: 8:25

ACCEPTED BY / AFFILIATION: [Signature]
DATE: 2/9/22
TIME: 8:25

SAMPLER NAME AND SIGNATURE: Mark Chest
PRINT Name of SAMPLER: Mark Chest
SIGNATURE of SAMPLER: [Signature]
DATE Signed: 2/9/21

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:
 Phone: Fax
 Requested Due Date:

Section B

Required Project Information:

Report To: SCSS Contacts
 Copy To: Arcadis Contacts
 Purchase Order #:
 Project Name: Plant Yates AP-2
 Project Number:

Section C

Invoice Information:

Attention: Southern Co.
 Company Name:
 Address:
 Pace Order:
 Pace Project Manager: Nicole D'Ono
 Pace Profile #: 10840

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs must be unique	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES						Analytes Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH:	
				START	END		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3						Methanol
MATRIX	DRILLING WATER	WT	DW	DATE	TIME	DATE	TIME	# OF CONTAINERS	WT	WT	WT	WT	WT	WT	WT	WT	WT	WT
1	YGWC-265	Drilling Water	DW	WT G				0	2	3								
2	YGWC-264	Water	WT	WT G				0	2	3								
3	YGWC-27S	Water	WW	WT G	2/8/21	17:37		5	2	3								
4	YGWC-271	Water	WW	WT G				5	2	3								
5	YGWC-28S	Water	WW	WT G				5	2	3								
6	YGWC-28T	Water	WW	WT G				5	2	3								
7	AP-2-DUP-1	Water	WT	WT G				5	2	3								
8	YGWC-29T	Water	WT	WT G				5	2	3								
9	AP-2-EB-1	Water	WT	WT G	2/8/21	18:27		5	2	3								
10	AP-2-EB-2	Water	WT	WT G				5	2	3								
11	AP-2-FB-1	Water	WT	WT G				5	2	3								
12	AP-2-FB-2	Water	WT	WT G				5	2	3								

RELINQUISHED BY / AFFILIATION
 JESSICA VERA Arcadis
 DATE: 2/19/22
 TIME: 08:28

ACCEPTED BY / AFFILIATION
 JESSICA VERA Arcadis
 DATE: 2/19/22
 TIME: 08:28

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: JESSICA VERA
 SIGNATURE of SAMPLER: *Jessica Vera*
 DATE Signed: 2/19/22

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



Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: JSM
Date: 3/3/2022
Worklist: 65309
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	2353491	
MB concentration:	0.534	
M/B 2 Sigma CSU:	0.356	
MB MDC:	0.681	
MB Numerical Performance Indicator:	2.94	
MB Status vs Numerical Indicator:	Warning	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65309	LCSD65309
Count Date:	3/7/2022	3/7/2022
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.090	36.090
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.810	0.805
Target Conc. (pCi/L, g, F):	4.454	4.482
Uncertainty (Calculated):	0.218	0.220
Result (pCi/L, g, F):	4.392	4.287
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.963	0.935
Numerical Performance Indicator:	-0.12	-0.40
Percent Recovery:	98.60%	95.66%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	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:		
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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS65309	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCSD65309	
Sample Result (pCi/L, g, F):	4.392	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.963	
Sample Duplicate Result (pCi/L, g, F):	4.287	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.935	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.153	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.03%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		
(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:

Quality Control Sample Performance Assessment



Test: Ra-226
 Analyst: JJC2
 Date: 2/27/2022
 Worklist: 65254
 Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2349823
MB Concentration:	0.023
MB Counting Uncertainty:	0.071
MB MDC:	0.175
MB Numerical Performance Indicator:	0.65
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		
LCSD (Y or N)?	LCSD65254	Y
Count Date:	3/11/2022	3/11/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.503
Target Conc. (pCi/L, g, F):	4.753	4.772
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.401	4.767
LCSD Counting Uncertainty (pCi/L, g, F):	2.54	-0.02
Numerical Performance Indicator:	113.63%	99.89%
Percent Recovery:	N/A	N/A
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	125%	125%
Upper % Recovery Limit:	75%	75%
Lower % Recovery Limit:	75%	75%

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):		
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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (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 Limit:		
MS/MSD Lower % Recovery Limit:		

Duplicate Sample Assessment		
Sample I.D.:	LCSD65254	92587078001
Duplicate Sample I.D.:	LCSD65254	92587078001DUP
Sample Result (pCi/L, g, F):	5.401	0.273
Sample Result Counting Uncertainty (pCi/L, g, F):	0.497	0.136
Sample Duplicate Result (pCi/L, g, F):	4.767	0.177
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.465	0.106
Are sample and/or duplicate results below RL?	NO	See Below #
Duplicate Numerical Performance Indicator:	1.824	1.094
(Based on the LCSD Percent Recoveries) Duplicate RPD:	12.87%	42.81%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail**
% RPD Limit:	25%	25%

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 Counting Uncertainty (pCi/L, g, F):		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (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:

~~Batch must be stripped due to unacceptable precision~~

N/A
 WAM 3/14/22

WAM 3/14/22

WAM 3/14/22



Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: JC2
Date: 3/1/2022
Worklist: 65294
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2353259
MB concentration:	-0.033
M/B Counting Uncertainty:	0.055
MB MDC:	0.191
MB Numerical Performance Indicator:	-1.16
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	Y	N
	LCS65294	LCS65294
Count Date:	3/8/2022	3/8/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.506
Target Conc. (pCi/L, g, F):	4.777	4.752
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.910	4.441
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.508	0.466
Numerical Performance Indicator:	0.51	-1.30
Percent Recovery:	102.79%	93.46%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	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:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (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:		

Duplicate Sample Assessment	LCS65294	92587080025
Sample I.D.:	LCS65294	92587080025
Duplicate Sample I.D.:	LCS65294	92587080025DUP
Sample Result (pCi/L, g, F):	4.910	0.708
Sample Result Counting Uncertainty (pCi/L, g, F):	0.508	0.212
Sample Duplicate Result (pCi/L, g, F):	4.441	0.789
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.466	0.203
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.334	-0.540
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.51%	10.80%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (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:



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 3/2/2022
Worklist: 65310
Matrix: WT

Method Blank Assessment	
MB Sample ID	2353492
MB concentration:	0.110
MB 2 Sigma CSU:	0.223
MB MDC:	0.492
MB Numerical Performance Indicator:	0.97
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSID (Y or N)?	Y
Count Date:	3/4/2022	LCS65310	
Spike ID:	21-029	LCS65310	
Decay Corrected Spike Concentration (pCi/mL):	36.127		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.814		
Target Conc. (pCi/mL, g, F):	4.438		
Uncertainty (Calculated):	0.217		
Result (pCi/mL, g, F):	4.343		
LCS/LCSD 2 Sigma CSU (pCi/mL, g, F):	1.032		
Numerical Performance Indicator:	-0.18		
Percent Recovery:	97.87%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	135%		
Lower % Recovery Limits:	60%		

Duplicate Sample Assessment		LCSID (Y or N)?	Y
Sample I.D.:	LCS65310	LCS65310	
Duplicate Sample I.D.:	LCS65310		
Sample Result (pCi/mL, g, F):	4.343		
Sample Result 2 Sigma CSU (pCi/mL, g, F):	1.032		
Sample Duplicate Result (pCi/mL, g, F):	3.967		
Sample Duplicate Result 2 Sigma CSU (pCi/mL, g, F):	0.892		
Are sample and/or duplicate results below RL?	NO		
Duplicate Numerical Performance Indicator:	0.541		
Duplicate Percent Recoveries:	8.78%		
Duplicate Status vs Numerical Indicator:	Pass		
Duplicate Status vs RPD:	Pass		
% RPD Limit:	36%		

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

Matrix Spike/Matrix Spike Duplicate Sample Assessment		MSI/MSD 1	MSI/MSD 2
Sample I.D.:	Sample I.D.:		
Sample MS I.D.:	Sample MS I.D.:		
Sample MSD I.D.:	Sample MSD I.D.:		
Sample Matrix Spike Result:	Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/mL, g, F):		
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/mL, g, F):	Duplicate Numerical Performance Indicator:		
Duplicate Numerical Performance Indicator:	Duplicate Percent Recoveries:		
Duplicate Percent Recoveries:	Duplicate Status vs Numerical Indicator:		
Duplicate Status vs Numerical Indicator:	Duplicate Status vs RPD:		
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:

VAL 3/8/22

Georgia Power Co. – Plant Yates

Data Review Report

Metals and General Chemistry Analyses

SDG #92587091

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Report #44872R

Review Level: Tier II

Project: 30052922.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Group (SDG) #92587091 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
YGWA-39	92587091001	Water	2/8/2022			X	X
YGWA-40	92587091002	Water	2/8/2022			X	X
YGWA-47	92587091003	Water	2/8/2022			X	X
GWA-2	92587091004	Water	2/8/2022			X	X
UP-DUP-1	92587091005	Water	2/8/2022	GWA-2		X	X
YGWA-1I	92587091006	Water	2/9/2022			X	X
YGWA-1D	92587091007	Water	2/9/2022			X	X
YGWA-2I	92587091008	Water	2/9/2022			X	X
YGWA-3I	92587091009	Water	2/9/2022			X	X
YGWA-3D	92587091010	Water	2/9/2022			X	X
UP-EB-1	92587091011	Water	2/9/2022			X	X
UP-FB-1	92587091012	Water	2/9/2022			X	X
YGWA-17S	92587091013	Water	2/9/2022			X	X
YGWA-18S	92587091014	Water	2/9/2022			X	X
YGWA-18I	92587091015	Water	2/9/2022			X	X
YGWA-20S	92587091016	Water	2/9/2022			X	X
YGWA-21I	92587091017	Water	2/9/2022			X	X
YGWA-5I	92587091018	Water	2/10/2022			X	X
UP-DUP-3	92587091019	Water	2/10/2022	YGWA-5I		X	X

Data Review Report

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-14S	92587091020	Water	2/10/2022			X	X
UP-DUP-2	92587091021	Water	2/10/2022	YGWA-14S		X	X
YGWA-30I	92587091022	Water	2/11/2022			X	X
YGWA-4I	92587091023	Water	2/11/2022			X	X
YGWA-5D	92587091024	Water	2/10/2022			X	X
UP-EB-2	92587091025	Water	2/10/2022			X	X
UP-FB-2	92587091026	Water	2/10/2022			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. pH analysis performed as a field measurement.

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, and 7470A; Standard Method (SM) SM4500-H+ B and 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
YGWA-39 YGWA-40 YGWA-47 GWA-2 UP-DUP-1 YGWA-11 YGWA-11 YGWA-21	Arsenic (EB, FB)	Detected sample results <RL and <BAL	"UB" at the RL

Sample Locations	Analytes	Sample Result	Qualification
YGWA-3I YGWA-3D YGWA-17S YGWA-18S YGWA-18I YGWA-20S YGWA-21I YGWA-5I UP-DUP-3 YGWA-14S UP-DUP-2 YGWA-30I YGWA-4I YGWA-5D	Arsenic (EB, FB, MB)	Detected sample results <RL and <BAL	“UB” at the RL
YGWA-18S	Chromium (MB)		

Notes:

- EB = Equipment blank
- FB = Field blank
- MB = Method 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 YGWA-3D in association with SW-846 6010D analysis. The concentration of calcium in the unspiked sample was greater than four-times the amount of spike added; hence the recoveries were not evaluated, and no qualification of the results was required.

The MS/MSD analysis performed using sample YGWA-3I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWA-14S in association with SW-846 7470A 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.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. 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
GWA-2 / UP-DUP-1	Calcium	25.6	25.6	0.0%
	Barium	0.037	0.034	8.5%
	Cobalt	0.072	0.055	26.8%
	Copper	0.0012 J	0.0012 J	AC
	Lithium	0.0031 J	0.0027 J	
	Nickel	0.017	0.014	
	Zinc	0.014	0.012	
YGWA-5I / UP-DUP-3	Calcium	2.5	2.6	AC
	Barium	0.020	0.020	
	Lithium	0.0036 J	0.0037 J	
YGWA-14S / UP-DUP-2	Calcium	1.3	1.2	AC
	Barium	0.0088	0.0084	
	Beryllium	0.00025 J	0.00022 J	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Boron	0.020 J	0.018 J	
	Selenium	0.0014 J	0.0050 U	

Note:

AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable.

The differences in the results between the parent sample YGWI-5I and field duplicate sample UP-DUP-3 were acceptable.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 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	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
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
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
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.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

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 samples YGWA-211 and YGWA-5I in association with anions analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed on sample locations YGWA-47 and YGWA-1D in association with anions analysis exhibited recoveries outside of the acceptance limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWA-47	Sulfate	73%	AC (75%)
YGWA-1D	Chloride	> 125%	AC (121%)

Note:

AC = Acceptable

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

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 samples YGWA-47 and UP-EB-1 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
GWA-2 / UP-DUP-1	TDS	283	271	4.4%
	Chloride	5.7	5.7	0.0%
	Sulfate	107	102	4.8%
	Fluoride	0.064 J	0.059 J	AC
YGWA-5I – UP-DUP-3	TDS	77.0	67.0	13.9%
	Chloride	4.4	4.4	AC
	Sulfate	2.4	2.4	
YGWA-14S / UP-DUP-2	TDS	56.0	53.0	5.5%
	Sulfate	6.2	6.1	1.6%
	Chloride	4.7	4.7	AC

Note:

AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable.

The differences in the results between the parent sample YGWI-5I and field duplicate sample UP-DUP-3 were acceptable.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 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: SM4500-H+ B, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
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

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: March 21, 2022

PEER REVIEW: Dennis Capria

DATE: March 22, 2022

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	Section B	Section C	Page : 1 Of 1
Required Client Information:	Required Project Information:	Invoice Information:	
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.	
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:	
		Address:	
Email To:	Purchase Order #:	Pace Quote:	Regulatory Agency
Phone: Fax	Project Name: Plant Yates Pooled Upgradient	Pace Project Manager: Nicole D'Oleo	State / Location
Requested Due Date:	Project Number:	Pace Profile #: 10840	Georgia

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	PRESERVATIVES								ANALYSES TEST	Y/N	REQUESTED ANALYSIS FILTERED (Y/N)								Residual Chlorine (Y/N)	
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I/II (gypsum only)				
				DATE	TIME	DATE	TIME																					
1	YGWA-39	WT	G	2/8/22	1455	-	-	5	2	3								X	X	X	X							pH: 5.78
2	YGWA-40	WT	G	2/8/22	1322	-	-	5	2	3								X	X	X	X							pH: 5.26
3	YGWA-11	WT	G					5	2	3								X	X	X	X							pH:
4	YGWA-1B	WT	G					3	2	3								X	X	X	X							pH:
5	YGWA-2I	WT	G					5	2	3								X	X	X	X							pH:
6	YGWA-3I	WT	G					5	2	3								X	X	X	X							pH:
7	YGWA-3D	WT	G					5	2	3								X	X	X	X							pH:
8	YGWA-14S	WT	G					5	2	3								X	X	X	X							pH:
9	UP-DUP-2	WT	G					5	2	3								X	X	X	X							pH:
10	YGWA-30I	WT	G					5	2	3								X	X	X	X							pH:
11	UP-EB-1	WT	G					5	2	3								X	X	X	X							pH:
12	UP-FB-1	WT	G					5	2	3								X	X	X	X							pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
	Anions Suite 300.0 (Cl, F, Sulfate)	<i>[Signature]</i>	Arcadis	2/9/22	0825	<i>[Signature]</i>	Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<i>[Signature]</i>	Arcadis	2/9/22	1018	<i>[Signature]</i>	Arcadis	2/9	1018		
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		TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Vin Lopczynski</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed: <i>2/9/22</i>				

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:
 Phone: Fax
 Requested Due Date:
Section B
Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Purchase Order #:
 Project Name: Plant Yates Pooled Upgradient
 Project Number:
Section C
Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Nicole D'Oleo
 Pace Profile #: 10840

 Page: | Of |
 Regulatory Agency
 State / Location
 Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)		COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES								Y/N	Requested Analysis Filtered (Y/N)						Residual Chlorine (Y/N)
		MATRIX CODE	CODE	START	END	UNPRESERVED	H2SO4			HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4		TDS (2540C)	RAD 9315/9320	App I/II (gypsum only)				
		WT	G	DATE	TIME	DATE	TIME																		
1	YGWA-47	WT	G	2/18/22	1140	-	-		5	2	3													pH 5.70	
2	GWA-2	WT	G						5	2	3														pH:
3	UP-DUP-1	WT	G						3	2	3														pH:
4	YGWA-4T	WT	G						5	2	3														pH:
5	YGWA-5T	WT	G						3	2	4														pH:
6	UP-DUP-3	WT	G						5	2	3														pH:
7	YGWA-50	WT	G						5	2	3														pH:
8	YGWA-17S	WT	G						5	2	3														pH:
9	YGWA-18S	WT	G						5	2	3														pH:
10	YGWA-48L	WT	G						5	2	3														pH:
11	YGWA-20S	WT	G						5	2	3														pH:
12	YGWA-21T	WT	G						5	2	3														pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>[Signature]</i> / Arcadis	2/19/22	0825	<i>[Signature]</i> / Arcadis	2/19/22	0825	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<i>[Signature]</i> / Arcadis	2/19/22	1018	<i>[Signature]</i> / Arcadis	2/19/22	1018	
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		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Mark Chest					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed: 2/19/22				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: GA Power	Address: Atlanta, GA	Report To: SCS Contacts	Copy To: Arcadis Contacts	Attention: Southern Co.	Company Name:
Email To:	Phone:	Purchase Order #:	Project Name: Plant Yates Pooled Upgradient	Address:	Pace Quote:
Requested Due Date:	Fax:	Project Number:		Pace Project Manager: Nicole D'Oleo	Pace Profile #: 10840

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 Soli/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS</small>	CODE	COLLECTED	START	END	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							Y/N	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)	pH:						
									SAMPLE TYPE (G=GRAB C=COMP)	DATE		TIME		Unpreserved	H2SO4		HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 83159320	App I / II (ppbsum only)
										DATE		TIME																	
										DATE	TIME	DATE	TIME																
1	YGWA-17	WT	G					5	2	3						X	X	X	X					pH:					
2	GWA-2	WT	G	2/19/22	11:50			5	2	3						X	X	X	X	X					pH: 5.83				
3	UP-DUP-1	WT	G	2/19/22				5	2	3						X	X	X	X	X	X					pH: 5.83			
4	YGWA-11	WT	G					5	2	3						X	X	X	X							pH:			
5	YGWA-51	WT	G					5	2	3						X	X	X	X							pH:			
6	UP-DUP-3	WT	G					5	2	3						X	X	X	X							pH:			
7	YGWA-5B	WT	G					5	2	3						X	X	X	X							pH:			
8	YGWA-17G	WT	G					5	2	3						X	X	X	X							pH:			
9	LIGWA-18S	WT	G					5	2	3						X	X	X	X							pH:			
10	YGWA-18I	WT	G					5	2	3						X	X	X	X							pH:			
11	YGWA-20C	WT	G					5	2	3						X	X	X	X							pH:			
12	YGWA-21I	WT	G					5	2	3						X	X	X	X							pH:			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
Arionis Suite 300.0 (Cl, F, Sulfate)	<i>Khalil Carson</i> / Arcadis	2/19/22	0840	<i>MS</i>	2/19/22	0840		
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<i>MS</i> / Arcadis	2/19/22	1018	<i>MS</i>	2/19	1018		
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: <i>Khalil Carson</i>	DATE Signed: <i>02-09-22</i>
SIGNATURE of SAMPLER: <i>[Signature]</i>	

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587091	YGWA-39	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-40	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-47	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
		EPA 300.0	Sulfate	50.9	mgL	J	MS %R < LCL
	GWA-2	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-1	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-1I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-1D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
		EPA 300.0	Chloride	1.0	mgL	J	MS %R > UCL
	YGWA-2I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-3I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-3D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-17S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-18S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
			Chromium	0.0050	mgL	UB	Blank contamination
	YGWA-18I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-20S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-21I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-5I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-3	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-14S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-2	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-30I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
YGWA-4I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination	
YGWA-5D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination	

Abbreviations:

%R = percent recovery
LCL = lower control limit
mg/L = milligrams per liter
MS = matrix spike
UCL = upper control limit

Qualifiers:

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

February 25, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Dear Ms. Petty:

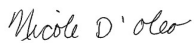
Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Anna Bottum, ERM
Andrea Brazell, ERM
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Lacy Smith, ERM
Samantha Thomas

Caitlin Tillema, ERM
Christine Weaver, ERM
Albert Zumbuhl, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587091001	YGWA-39	Water	02/08/22 14:55	02/09/22 10:18
92587091002	YGWA-40	Water	02/08/22 13:22	02/09/22 10:18
92587091003	YGWA-47	Water	02/08/22 11:40	02/09/22 10:18
92587091004	GWA-2	Water	02/08/22 11:50	02/09/22 10:18
92587091005	UP-DUP-1	Water	02/08/22 00:00	02/09/22 10:18
92587091006	YGWA-1I	Water	02/09/22 13:45	02/10/22 17:00
92587091007	YGWA-1D	Water	02/09/22 14:45	02/10/22 17:00
92587091008	YGWA-2I	Water	02/09/22 17:35	02/10/22 17:00
92587091009	YGWA-3I	Water	02/09/22 11:35	02/10/22 17:00
92587091010	YGWA-3D	Water	02/09/22 10:20	02/10/22 17:00
92587091011	UP-EB-1	Water	02/09/22 13:06	02/10/22 17:00
92587091012	UP-FB-1	Water	02/09/22 10:47	02/10/22 17:00
92587091013	YGWA-17S	Water	02/09/22 10:20	02/10/22 17:00
92587091014	YGWA-18S	Water	02/09/22 12:24	02/10/22 17:00
92587091015	YGWA-18I	Water	02/09/22 14:31	02/10/22 17:00
92587091016	YGWA-20S	Water	02/09/22 16:19	02/10/22 17:00
92587091017	YGWA-21I	Water	02/09/22 17:40	02/10/22 17:00
92587091018	YGWA-5I	Water	02/10/22 17:27	02/11/22 16:45
92587091019	UP-DUP-3	Water	02/10/22 00:00	02/11/22 16:45
92587091020	YGWA-14S	Water	02/10/22 16:20	02/11/22 16:45
92587091021	UP-DUP-2	Water	02/10/22 00:00	02/11/22 16:45
92587091022	YGWA-30I	Water	02/11/22 09:20	02/11/22 16:45
92587091023	YGWA-4I	Water	02/11/22 10:40	02/11/22 16:45
92587091024	YGWA-5D	Water	02/10/22 17:46	02/11/22 16:45
92587091025	UP-EB-2	Water	02/10/22 11:40	02/11/22 16:45
92587091026	UP-FB-2	Water	02/10/22 17:13	02/11/22 16:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587091001	YGWA-39	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091002	YGWA-40	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091003	YGWA-47	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091004	GWA-2	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091005	UP-DUP-1	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091006	YGWA-1I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091007	YGWA-1D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091008	YGWA-2I	EPA 6010D	KH	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587091009	YGWA-3I	EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92587091010	YGWA-3D	SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587091011	UP-EB-1	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091012	UP-FB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
92587091013	YGWA-17S	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
92587091014	YGWA-18S	EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92587091015	YGWA-18I	SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587091016	YGWA-20S	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587091017	YGWA-21I	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587091018	YGWA-5I	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587091019	UP-DUP-3	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587091020	YGWA-14S	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587091021	UP-DUP-2	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587091022	YGWA-30I	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587091023	YGWA-4I	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587091024	YGWA-5D	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92587091025	UP-EB-2	SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091026	UP-FB-2	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587091001	YGWA-39					
	Performed by	CUSTOME			02/09/22 12:38	
		R				
	pH	5.78	Std. Units		02/09/22 12:38	
EPA 6010D	Calcium	15.2	mg/L	1.0	02/23/22 21:07	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/23/22 19:41	B
EPA 6020B	Barium	0.041	mg/L	0.0050	02/23/22 19:41	
EPA 6020B	Boron	0.13	mg/L	0.040	02/24/22 12:58	
EPA 6020B	Cadmium	0.00063	mg/L	0.00050	02/23/22 19:41	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	02/23/22 19:41	
EPA 6020B	Lithium	0.0080J	mg/L	0.030	02/23/22 19:41	
EPA 6020B	Molybdenum	0.0035J	mg/L	0.010	02/23/22 19:41	
SM 2540C-2015	Total Dissolved Solids	248	mg/L	10.0	02/14/22 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	7.4	mg/L	1.0	02/15/22 08:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	02/15/22 08:56	
EPA 300.0 Rev 2.1 1993	Sulfate	14.6	mg/L	1.0	02/15/22 08:56	
92587091002	YGWA-40					
	Performed by	CUSTOME			02/09/22 12:38	
		R				
	pH	5.26	Std. Units		02/09/22 12:38	
EPA 6010D	Calcium	6.0	mg/L	1.0	02/23/22 21:12	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	02/23/22 19:47	B
EPA 6020B	Barium	0.039	mg/L	0.0050	02/23/22 19:47	
EPA 6020B	Beryllium	0.00028J	mg/L	0.00050	02/23/22 19:47	
EPA 6020B	Boron	0.074	mg/L	0.040	02/24/22 13:04	
EPA 6020B	Lithium	0.00076J	mg/L	0.030	02/23/22 19:47	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	02/23/22 19:47	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	02/16/22 15:55	
SM 2540C-2015	Total Dissolved Solids	93.0	mg/L	10.0	02/14/22 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	6.2	mg/L	1.0	02/15/22 09:10	
EPA 300.0 Rev 2.1 1993	Sulfate	17.9	mg/L	1.0	02/15/22 09:10	
92587091003	YGWA-47					
	Performed by	CUSTOME			02/09/22 12:39	
		R				
	pH	5.40	Std. Units		02/09/22 12:39	
EPA 6010D	Calcium	9.4	mg/L	1.0	02/23/22 21:26	
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	02/23/22 19:53	B
EPA 6020B	Barium	0.030	mg/L	0.0050	02/23/22 19:53	
EPA 6020B	Beryllium	0.000056J	mg/L	0.00050	02/23/22 19:53	
EPA 6020B	Boron	0.015J	mg/L	0.040	02/23/22 19:53	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	02/23/22 19:53	
EPA 6020B	Lithium	0.0039J	mg/L	0.030	02/23/22 19:53	
SM 2540C-2015	Total Dissolved Solids	151	mg/L	10.0	02/15/22 16:02	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/15/22 09:52	
EPA 300.0 Rev 2.1 1993	Sulfate	50.9	mg/L	1.0	02/15/22 09:52	M1
92587091004	GWA-2					
	Performed by	CUSTOME			02/09/22 12:39	
		R				

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587091004	GWA-2					
	pH	5.83	Std. Units		02/09/22 12:39	
EPA 6010D	Calcium	25.6	mg/L	1.0	02/23/22 21:31	
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 19:59	B
EPA 6020B	Barium	0.037	mg/L	0.0050	02/23/22 19:59	
EPA 6020B	Cobalt	0.072	mg/L	0.0050	02/23/22 19:59	
EPA 6020B	Copper	0.0012J	mg/L	0.0050	02/23/22 19:59	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	02/23/22 19:59	
EPA 6020B	Nickel	0.017	mg/L	0.0050	02/23/22 19:59	
EPA 6020B	Zinc	0.014	mg/L	0.010	02/23/22 19:59	
SM 2540C-2015	Total Dissolved Solids	283	mg/L	10.0	02/15/22 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	02/15/22 10:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	02/15/22 10:34	
EPA 300.0 Rev 2.1 1993	Sulfate	107	mg/L	3.0	02/15/22 18:19	
92587091005	UP-DUP-1					
EPA 6010D	Calcium	25.6	mg/L	1.0	02/23/22 21:36	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/23/22 20:05	B
EPA 6020B	Barium	0.034	mg/L	0.0050	02/23/22 20:05	
EPA 6020B	Cobalt	0.055	mg/L	0.0050	02/23/22 20:05	
EPA 6020B	Copper	0.0012J	mg/L	0.0050	02/23/22 20:05	
EPA 6020B	Lithium	0.0027J	mg/L	0.030	02/23/22 20:05	
EPA 6020B	Nickel	0.014	mg/L	0.0050	02/23/22 20:05	
EPA 6020B	Zinc	0.012	mg/L	0.010	02/23/22 20:05	
SM 2540C-2015	Total Dissolved Solids	271	mg/L	10.0	02/15/22 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	02/15/22 10:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/15/22 10:48	
EPA 300.0 Rev 2.1 1993	Sulfate	102	mg/L	2.0	02/15/22 18:34	
92587091006	YGWA-1I					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	6.24	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	2.1	mg/L	1.0	02/23/22 21:50	
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 20:23	B
EPA 6020B	Barium	0.0088	mg/L	0.0050	02/23/22 20:23	
EPA 6020B	Cobalt	0.0023J	mg/L	0.0050	02/23/22 20:23	
EPA 6020B	Lithium	0.0027J	mg/L	0.030	02/23/22 20:23	
EPA 6020B	Molybdenum	0.0055J	mg/L	0.010	02/23/22 20:23	
SM 2540C-2015	Total Dissolved Solids	57.0	mg/L	10.0	02/15/22 16:30	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	02/16/22 13:32	
EPA 300.0 Rev 2.1 1993	Sulfate	5.1	mg/L	1.0	02/16/22 13:32	
92587091007	YGWA-1D					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	7.12	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	14.9	mg/L	1.0	02/23/22 21:55	
EPA 6020B	Arsenic	0.0031J	mg/L	0.0050	02/23/22 20:41	B
EPA 6020B	Barium	0.0067	mg/L	0.0050	02/23/22 20:41	

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587091007	YGWA-1D					
EPA 6020B	Cobalt	0.00072J	mg/L	0.0050	02/23/22 20:41	
EPA 6020B	Lithium	0.013J	mg/L	0.030	02/23/22 20:41	
EPA 6020B	Molybdenum	0.0093J	mg/L	0.010	02/23/22 20:41	
SM 2540C-2015	Total Dissolved Solids	105	mg/L	10.0	02/15/22 16:30	
EPA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	02/16/22 13:46	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.10	02/16/22 13:46	M1
EPA 300.0 Rev 2.1 1993	Sulfate	9.3	mg/L	1.0	02/16/22 13:46	M1
92587091008	YGWA-2I					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	5.89	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	23.4	mg/L	1.0	02/23/22 21:59	
EPA 6020B	Arsenic	0.0037J	mg/L	0.0050	02/23/22 20:47	B
EPA 6020B	Barium	0.0029J	mg/L	0.0050	02/23/22 20:47	
EPA 6020B	Lithium	0.0060J	mg/L	0.030	02/23/22 20:47	
EPA 6020B	Molybdenum	0.0057J	mg/L	0.010	02/23/22 20:47	
SM 2540C-2015	Total Dissolved Solids	156	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	1.0J	mg/L	1.0	02/16/22 14:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	02/16/22 14:28	
EPA 300.0 Rev 2.1 1993	Sulfate	18.0	mg/L	1.0	02/16/22 14:28	
92587091009	YGWA-3I					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	7.66	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	23.7	mg/L	1.0	02/23/22 22:42	
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/24/22 17:09	B
EPA 6020B	Barium	0.0031J	mg/L	0.0050	02/24/22 17:09	
EPA 6020B	Lithium	0.021J	mg/L	0.030	02/24/22 17:09	
EPA 6020B	Molybdenum	0.0087J	mg/L	0.010	02/24/22 17:09	
SM 2540C-2015	Total Dissolved Solids	145	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/16/22 14:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.097J	mg/L	0.10	02/16/22 14:42	
EPA 300.0 Rev 2.1 1993	Sulfate	16.0	mg/L	1.0	02/16/22 14:42	
92587091010	YGWA-3D					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	7.97	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	30.3	mg/L	1.0	02/23/22 22:47	M1
EPA 6020B	Antimony	0.0018J	mg/L	0.0030	02/24/22 17:33	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	02/24/22 17:33	B
EPA 6020B	Barium	0.0051	mg/L	0.0050	02/24/22 17:33	
EPA 6020B	Boron	0.010J	mg/L	0.040	02/24/22 17:33	
EPA 6020B	Lithium	0.026J	mg/L	0.030	02/24/22 17:33	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	02/24/22 17:33	
SM 2540C-2015	Total Dissolved Solids	154	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/16/22 14:55	

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587091010	YGWA-3D					
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L	0.10	02/16/22 14:55	
EPA 300.0 Rev 2.1 1993	Sulfate	7.2	mg/L	1.0	02/16/22 14:55	
92587091011	UP-EB-1					
EPA 6020B	Arsenic	0.0019J	mg/L	0.0050	02/24/22 17:39	B
92587091012	UP-FB-1					
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/24/22 17:45	B
92587091013	YGWA-17S					
	Performed by	CUSTOME			02/11/22 10:08	
		R				
	pH	5.53	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	2.8	mg/L	1.0	02/23/22 23:25	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/24/22 17:51	B
EPA 6020B	Barium	0.017	mg/L	0.0050	02/24/22 17:51	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	02/24/22 17:51	
EPA 6020B	Boron	0.0098J	mg/L	0.040	02/24/22 17:51	
SM 2540C-2015	Total Dissolved Solids	81.0	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	10.9	mg/L	1.0	02/16/22 16:55	
EPA 300.0 Rev 2.1 1993	Sulfate	4.8	mg/L	1.0	02/16/22 16:55	
92587091014	YGWA-18S					
	Performed by	CUSTOME			02/11/22 10:08	
		R				
	pH	5.28	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	0.87J	mg/L	1.0	02/23/22 23:30	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/24/22 18:09	B
EPA 6020B	Barium	0.014	mg/L	0.0050	02/24/22 18:09	
EPA 6020B	Beryllium	0.000089J	mg/L	0.00050	02/24/22 18:09	
EPA 6020B	Chromium	0.0014J	mg/L	0.0050	02/24/22 18:09	B
EPA 6020B	Lithium	0.0015J	mg/L	0.030	02/24/22 18:09	
SM 2540C-2015	Total Dissolved Solids	60.0	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	02/16/22 17:09	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	02/16/22 17:09	
92587091015	YGWA-18I					
	Performed by	CUSTOME			02/11/22 10:08	
		R				
	pH	5.98	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	5.1	mg/L	1.0	02/23/22 23:35	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	02/24/22 18:15	B
EPA 6020B	Barium	0.021	mg/L	0.0050	02/24/22 18:15	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	02/24/22 18:15	
SM 2540C-2015	Total Dissolved Solids	103	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	7.5	mg/L	1.0	02/16/22 17:22	
EPA 300.0 Rev 2.1 1993	Sulfate	0.51J	mg/L	1.0	02/16/22 17:22	
92587091016	YGWA-20S					
	Performed by	CUSTOME			02/11/22 10:08	
		R				

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587091016	YGWA-20S					
	pH	5.91	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	2.3	mg/L	1.0	02/23/22 23:40	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	02/24/22 18:21	B
EPA 6020B	Barium	0.014	mg/L	0.0050	02/24/22 18:21	
EPA 6020B	Beryllium	0.000077J	mg/L	0.00050	02/24/22 18:21	
EPA 6020B	Lithium	0.00082J	mg/L	0.030	02/24/22 18:21	
SM 2540C-2015	Total Dissolved Solids	72.0	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	02/16/22 17:36	
92587091017	YGWA-21I					
	Performed by	CUSTOMER			02/11/22 10:08	
	pH	6.84	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	9.8	mg/L	1.0	02/23/22 23:44	
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	02/24/22 18:27	B
EPA 6020B	Barium	0.011	mg/L	0.0050	02/24/22 18:27	
EPA 6020B	Cobalt	0.0078	mg/L	0.0050	02/24/22 18:27	
EPA 6020B	Lithium	0.0061J	mg/L	0.030	02/24/22 18:27	
SM 2540C-2015	Total Dissolved Solids	131	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	1.7	mg/L	1.0	02/17/22 02:57	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/17/22 02:57	
EPA 300.0 Rev 2.1 1993	Sulfate	3.9	mg/L	1.0	02/17/22 02:57	
92587091018	YGWA-5I					
	Performed by	CUSTOMER			02/14/22 11:36	
	pH	5.14	Std. Units		02/14/22 11:36	
EPA 6010D	Calcium	2.5	mg/L	1.0	02/23/22 23:49	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	02/24/22 18:33	B
EPA 6020B	Barium	0.020	mg/L	0.0050	02/24/22 18:33	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	02/24/22 18:33	
SM 2540C-2015	Total Dissolved Solids	77.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	02/19/22 13:40	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	02/19/22 13:40	
92587091019	UP-DUP-3					
EPA 6010D	Calcium	2.6	mg/L	1.0	02/23/22 23:54	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	02/24/22 18:39	B
EPA 6020B	Barium	0.020	mg/L	0.0050	02/24/22 18:39	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	02/24/22 18:39	
SM 2540C-2015	Total Dissolved Solids	67.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	02/19/22 14:20	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	02/19/22 14:20	
92587091020	YGWA-14S					
	Performed by	CUSTOMER			02/14/22 11:36	
	pH	4.50	Std. Units		02/14/22 11:36	
EPA 6010D	Calcium	1.3	mg/L	1.0	02/23/22 23:59	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	02/24/22 18:45	B

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587091020	YGWA-14S					
EPA 6020B	Barium	0.0088	mg/L	0.0050	02/24/22 18:45	
EPA 6020B	Beryllium	0.00025J	mg/L	0.00050	02/24/22 18:45	
EPA 6020B	Boron	0.020J	mg/L	0.040	02/24/22 18:45	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	02/24/22 18:45	
SM 2540C-2015	Total Dissolved Solids	56.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/19/22 14:34	
EPA 300.0 Rev 2.1 1993	Sulfate	6.2	mg/L	1.0	02/19/22 14:34	
92587091021	UP-DUP-2					
EPA 6010D	Calcium	1.2	mg/L	1.0	02/24/22 00:13	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	02/24/22 18:51	B
EPA 6020B	Barium	0.0084	mg/L	0.0050	02/24/22 18:51	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	02/24/22 18:51	
EPA 6020B	Boron	0.018J	mg/L	0.040	02/24/22 18:51	
SM 2540C-2015	Total Dissolved Solids	53.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/19/22 14:47	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	02/19/22 14:47	
92587091022	YGWA-30I					
	Performed by	CUSTOMER			02/14/22 11:37	
	pH	5.59	Std. Units		02/14/22 11:37	
EPA 6010D	Calcium	1.5	mg/L	1.0	02/24/22 00:18	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	02/24/22 18:57	B
EPA 6020B	Barium	0.0077	mg/L	0.0050	02/24/22 18:57	
EPA 6020B	Cobalt	0.0038J	mg/L	0.0050	02/24/22 18:57	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	02/24/22 18:57	
SM 2540C-2015	Total Dissolved Solids	66.0	mg/L	10.0	02/17/22 17:02	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	02/19/22 15:01	
EPA 300.0 Rev 2.1 1993	Sulfate	2.8	mg/L	1.0	02/19/22 15:01	
92587091023	YGWA-4I					
	Performed by	CUSTOMER			02/14/22 11:37	
	pH	5.95	Std. Units		02/14/22 11:37	
EPA 6010D	Calcium	7.5	mg/L	1.0	02/24/22 00:23	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	02/24/22 19:03	B
EPA 6020B	Barium	0.013	mg/L	0.0050	02/24/22 19:03	
EPA 6020B	Lithium	0.012J	mg/L	0.030	02/24/22 19:03	
SM 2540C-2015	Total Dissolved Solids	102	mg/L	10.0	02/17/22 17:02	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	02/19/22 15:14	
EPA 300.0 Rev 2.1 1993	Sulfate	7.7	mg/L	1.0	02/19/22 15:14	
92587091024	YGWA-5D					
	Performed by	CUSTOMER			02/14/22 11:37	
	pH	6.99	Std. Units		02/14/22 11:37	
EPA 6010D	Calcium	24.8	mg/L	1.0	02/24/22 00:27	
EPA 6020B	Arsenic	0.0040J	mg/L	0.0050	02/24/22 19:20	B
EPA 6020B	Barium	0.0084	mg/L	0.0050	02/24/22 19:20	

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091024	YGWA-5D					
EPA 6020B	Boron	0.011J	mg/L	0.040	02/24/22 19:20	
EPA 6020B	Lithium	0.0076J	mg/L	0.030	02/24/22 19:20	
EPA 6020B	Molybdenum	0.00096J	mg/L	0.010	02/24/22 19:20	
SM 2540C-2015	Total Dissolved Solids	127	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/19/22 15:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/19/22 15:54	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	02/19/22 15:54	
92587091025	UP-EB-2					
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/24/22 19:32	B
92587091026	UP-FB-2					
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	02/24/22 19:38	B

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-39		Lab ID: 92587091001		Collected: 02/08/22 14:55		Received: 02/09/22 10:18		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 12:38		
pH	5.78	Std. Units			1		02/09/22 12:38		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	15.2	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:07	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:41	7440-36-0	
Arsenic	0.0034J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:41	7440-38-2	B
Barium	0.041	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:41	7440-41-7	
Boron	0.13	mg/L	0.040	0.0086	1	02/23/22 14:19	02/24/22 12:58	7440-42-8	
Cadmium	0.00063	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:41	7440-47-3	
Cobalt	0.0012J	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:41	7439-92-1	
Lithium	0.0080J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:41	7439-93-2	
Molybdenum	0.0035J	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:41	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:52	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	248	mg/L	10.0	10.0	1		02/14/22 15:20		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.4	mg/L	1.0	0.60	1		02/15/22 08:56	16887-00-6	
Fluoride	0.052J	mg/L	0.10	0.050	1		02/15/22 08:56	16984-48-8	
Sulfate	14.6	mg/L	1.0	0.50	1		02/15/22 08:56	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-40		Lab ID: 92587091002		Collected: 02/08/22 13:22		Received: 02/09/22 10:18		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 12:38		
pH	5.26	Std. Units			1		02/09/22 12:38		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	6.0	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:12	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:47	7440-36-0	
Arsenic	0.0030J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:47	7440-38-2	B
Barium	0.039	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:47	7440-39-3	
Beryllium	0.00028J	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:47	7440-41-7	
Boron	0.074	mg/L	0.040	0.0086	1	02/23/22 14:19	02/24/22 13:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:47	7439-92-1	
Lithium	0.00076J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:47	7439-98-7	
Selenium	0.0014J	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:47	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00013J	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:55	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	93.0	mg/L	10.0	10.0	1		02/14/22 15:20		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.2	mg/L	1.0	0.60	1		02/15/22 09:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 09:10	16984-48-8	
Sulfate	17.9	mg/L	1.0	0.50	1		02/15/22 09:10	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-47		Lab ID: 92587091003		Collected: 02/08/22 11:40		Received: 02/09/22 10:18		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 12:39		
pH	5.40	Std. Units			1		02/09/22 12:39		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	9.4	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:26	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:53	7440-36-0	
Arsenic	0.0027J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:53	7440-38-2	B
Barium	0.030	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:53	7440-39-3	
Beryllium	0.000056J	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:53	7440-41-7	
Boron	0.015J	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 19:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:53	7440-47-3	
Cobalt	0.0013J	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:53	7439-92-1	
Lithium	0.0039J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:53	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	151	mg/L	10.0	10.0	1		02/15/22 16:02		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.2	mg/L	1.0	0.60	1		02/15/22 09:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 09:52	16984-48-8	M1
Sulfate	50.9	mg/L	1.0	0.50	1		02/15/22 09:52	14808-79-8	M1

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: GWA-2		Lab ID: 92587091004		Collected: 02/08/22 11:50		Received: 02/09/22 10:18		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 12:39		
pH	5.83	Std. Units			1		02/09/22 12:39		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	25.6	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:31	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:59	7440-36-0	
Arsenic	0.0033J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:59	7440-38-2	B
Barium	0.037	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:59	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 19:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:59	7440-47-3	
Cobalt	0.072	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:59	7440-48-4	
Copper	0.0012J	mg/L	0.0050	0.00050	1	02/23/22 14:19	02/23/22 19:59	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:59	7439-92-1	
Lithium	0.0031J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:59	7439-98-7	
Nickel	0.017	mg/L	0.0050	0.00071	1	02/23/22 14:19	02/23/22 19:59	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:59	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/23/22 14:19	02/23/22 19:59	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:59	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/23/22 14:19	02/23/22 19:59	7440-62-2	
Zinc	0.014	mg/L	0.010	0.0070	1	02/23/22 14:19	02/23/22 19:59	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:00	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	283	mg/L	10.0	10.0	1		02/15/22 16:03		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.7	mg/L	1.0	0.60	1		02/15/22 10:34	16887-00-6	
Fluoride	0.064J	mg/L	0.10	0.050	1		02/15/22 10:34	16984-48-8	
Sulfate	107	mg/L	3.0	1.5	3		02/15/22 18:19	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-DUP-1		Lab ID: 92587091005		Collected: 02/08/22 00:00		Received: 02/09/22 10:18		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	25.6	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:36	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:05	7440-36-0	
Arsenic	0.0034J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:05	7440-38-2	B
Barium	0.034	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:05	7440-47-3	
Cobalt	0.055	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:05	7440-48-4	
Copper	0.0012J	mg/L	0.0050	0.00050	1	02/23/22 14:19	02/23/22 20:05	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:05	7439-92-1	
Lithium	0.0027J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:05	7439-98-7	
Nickel	0.014	mg/L	0.0050	0.00071	1	02/23/22 14:19	02/23/22 20:05	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:05	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/23/22 14:19	02/23/22 20:05	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:05	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/23/22 14:19	02/23/22 20:05	7440-62-2	
Zinc	0.012	mg/L	0.010	0.0070	1	02/23/22 14:19	02/23/22 20:05	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:03	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	271	mg/L	10.0	10.0	1		02/15/22 16:03		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.7	mg/L	1.0	0.60	1		02/15/22 10:48	16887-00-6	
Fluoride	0.059J	mg/L	0.10	0.050	1		02/15/22 10:48	16984-48-8	
Sulfate	102	mg/L	2.0	1.0	2		02/15/22 18:34	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-11		Lab ID: 92587091006		Collected: 02/09/22 13:45		Received: 02/10/22 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 10:07		
pH	6.24	Std. Units			1		02/11/22 10:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.1	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:50	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:23	7440-36-0	
Arsenic	0.0033J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:23	7440-38-2	B
Barium	0.0088	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:23	7440-47-3	
Cobalt	0.0023J	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:23	7439-92-1	
Lithium	0.0027J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:23	7439-93-2	
Molybdenum	0.0055J	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:23	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	57.0	mg/L	10.0	10.0	1		02/15/22 16:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.3	mg/L	1.0	0.60	1		02/16/22 13:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 13:32	16984-48-8	
Sulfate	5.1	mg/L	1.0	0.50	1		02/16/22 13:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-1D Lab ID: 92587091007 Collected: 02/09/22 14:45 Received: 02/10/22 17:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 10:07		
pH	7.12	Std. Units			1		02/11/22 10:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	14.9	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:55	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:41	7440-36-0	
Arsenic	0.0031J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:41	7440-38-2	B
Barium	0.0067	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:41	7440-47-3	
Cobalt	0.00072J	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:41	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:41	7439-93-2	
Molybdenum	0.0093J	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:41	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	105	mg/L	10.0	10.0	1		02/15/22 16:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.0	mg/L	1.0	0.60	1		02/16/22 13:46	16887-00-6	M1
Fluoride	0.057J	mg/L	0.10	0.050	1		02/16/22 13:46	16984-48-8	M1
Sulfate	9.3	mg/L	1.0	0.50	1		02/16/22 13:46	14808-79-8	M1

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-2I		Lab ID: 92587091008		Collected: 02/09/22 17:35		Received: 02/10/22 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 10:07		
pH	5.89	Std. Units			1		02/11/22 10:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	23.4	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:59	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:47	7440-36-0	
Arsenic	0.0037J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:47	7440-38-2	B
Barium	0.0029J	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:47	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:47	7439-92-1	
Lithium	0.0060J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:47	7439-93-2	
Molybdenum	0.0057J	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:47	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	156	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.0J	mg/L	1.0	0.60	1		02/16/22 14:28	16887-00-6	
Fluoride	0.094J	mg/L	0.10	0.050	1		02/16/22 14:28	16984-48-8	
Sulfate	18.0	mg/L	1.0	0.50	1		02/16/22 14:28	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-3I		Lab ID: 92587091009		Collected: 02/09/22 11:35		Received: 02/10/22 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	CUSTOMER				1		02/11/22 10:07		
pH	7.66	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	23.7	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 22:42	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:09	7440-36-0	
Arsenic	0.0018J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:09	7440-38-2	B
Barium	0.0031J	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:09	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:09	7439-92-1	
Lithium	0.021J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:09	7439-93-2	
Molybdenum	0.0087J	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	145	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	1.1	mg/L	1.0	0.60	1		02/16/22 14:42	16887-00-6	
Fluoride	0.097J	mg/L	0.10	0.050	1		02/16/22 14:42	16984-48-8	
Sulfate	16.0	mg/L	1.0	0.50	1		02/16/22 14:42	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-3D		Lab ID: 92587091010		Collected: 02/09/22 10:20		Received: 02/10/22 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 10:07		
pH	7.97	Std. Units			1		02/11/22 10:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	30.3	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 22:47	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0018J	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:33	7440-36-0	
Arsenic	0.0020J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:33	7440-38-2	B
Barium	0.0051	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:33	7440-41-7	
Boron	0.010J	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:33	7439-92-1	
Lithium	0.026J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:33	7439-93-2	
Molybdenum	0.013	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:33	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	154	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.1	mg/L	1.0	0.60	1		02/16/22 14:55	16887-00-6	
Fluoride	0.43	mg/L	0.10	0.050	1		02/16/22 14:55	16984-48-8	
Sulfate	7.2	mg/L	1.0	0.50	1		02/16/22 14:55	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-EB-1		Lab ID: 92587091011		Collected: 02/09/22 13:06		Received: 02/10/22 17:00		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:06	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:39	7440-36-0		
Arsenic	0.0019J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:39	7440-38-2	B	
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:39	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:39	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:39	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:39	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:39	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:39	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:39	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:39	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:39	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:39	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:39	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:51	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/15/22 16:31			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 15:09	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 15:09	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 15:09	14808-79-8		

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-FB-1 Lab ID: 92587091012 Collected: 02/09/22 10:47 Received: 02/10/22 17:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:20	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:45	7440-36-0	
Arsenic	0.0018J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:45	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:45	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:53	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 15:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 15:23	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 15:23	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-17S		Lab ID: 92587091013		Collected: 02/09/22 10:20		Received: 02/10/22 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 10:08		
pH	5.53	Std. Units			1		02/11/22 10:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.8	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:25	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:51	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:51	7440-38-2	B
Barium	0.017	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:51	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:51	7440-41-7	
Boron	0.0098J	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:51	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:56	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	81.0	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	10.9	mg/L	1.0	0.60	1		02/16/22 16:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 16:55	16984-48-8	
Sulfate	4.8	mg/L	1.0	0.50	1		02/16/22 16:55	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Sample: YGWA-18S		Lab ID: 92587091014		Collected: 02/09/22 12:24		Received: 02/10/22 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 10:08		
pH	5.28	Std. Units			1		02/11/22 10:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	0.87J	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:30	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:09	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:09	7440-38-2	B
Barium	0.014	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:09	7440-39-3	
Beryllium	0.000089J	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:09	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:09	7440-43-9	
Chromium	0.0014J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:09	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:09	7439-92-1	
Lithium	0.0015J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:09	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:59	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	60.0	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.0	mg/L	1.0	0.60	1		02/16/22 17:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:09	16984-48-8	
Sulfate	1.1	mg/L	1.0	0.50	1		02/16/22 17:09	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-181		Lab ID: 92587091015		Collected: 02/09/22 14:31		Received: 02/10/22 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 10:08		
pH	5.98	Std. Units			1		02/11/22 10:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.1	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:35	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:15	7440-36-0	
Arsenic	0.0022J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:15	7440-38-2	B
Barium	0.021	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:15	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:15	7439-92-1	
Lithium	0.0032J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:15	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	103	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.5	mg/L	1.0	0.60	1		02/16/22 17:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:22	16984-48-8	
Sulfate	0.51J	mg/L	1.0	0.50	1		02/16/22 17:22	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Sample: YGWA-20S		Lab ID: 92587091016		Collected: 02/09/22 16:19		Received: 02/10/22 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 10:08		
pH	5.91	Std. Units			1		02/11/22 10:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.3	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:40	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:21	7440-36-0	
Arsenic	0.0021J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:21	7440-38-2	B
Barium	0.014	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:21	7440-39-3	
Beryllium	0.000077J	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:21	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:21	7439-92-1	
Lithium	0.00082J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:21	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	72.0	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.8	mg/L	1.0	0.60	1		02/16/22 17:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:36	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 17:36	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-211		Lab ID: 92587091017		Collected: 02/09/22 17:40		Received: 02/10/22 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 10:08		
pH	6.84	Std. Units			1		02/11/22 10:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	9.8	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:44	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:27	7440-36-0	
Arsenic	0.0036J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:27	7440-38-2	B
Barium	0.011	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:27	7440-47-3	
Cobalt	0.0078	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:27	7439-92-1	
Lithium	0.0061J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:27	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:12	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	131	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.7	mg/L	1.0	0.60	1		02/17/22 02:57	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		02/17/22 02:57	16984-48-8	
Sulfate	3.9	mg/L	1.0	0.50	1		02/17/22 02:57	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-5I		Lab ID: 92587091018		Collected: 02/10/22 17:27		Received: 02/11/22 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/14/22 11:36		
pH	5.14	Std. Units			1		02/14/22 11:36		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.5	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:49	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:33	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:33	7440-38-2	B
Barium	0.020	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:33	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:33	7439-92-1	
Lithium	0.0036J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:33	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:14	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	77.0	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.4	mg/L	1.0	0.60	1		02/19/22 13:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 13:40	16984-48-8	
Sulfate	2.4	mg/L	1.0	0.50	1		02/19/22 13:40	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-DUP-3		Lab ID: 92587091019		Collected: 02/10/22 00:00		Received: 02/11/22 16:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	2.6	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:54	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:39	7440-36-0		
Arsenic	0.0017J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:39	7440-38-2	B	
Barium	0.020	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:39	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:39	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:39	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:39	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:39	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:39	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:39	7439-92-1		
Lithium	0.0037J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:39	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:39	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:39	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:39	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:17	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	67.0	mg/L	10.0	10.0	1		02/17/22 16:07			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	4.4	mg/L	1.0	0.60	1		02/19/22 14:20	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:20	16984-48-8		
Sulfate	2.4	mg/L	1.0	0.50	1		02/19/22 14:20	14808-79-8		

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-14S		Lab ID: 92587091020		Collected: 02/10/22 16:20		Received: 02/11/22 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/14/22 11:36		
pH	4.50	Std. Units			1		02/14/22 11:36		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.3	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:59	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:45	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:45	7440-38-2	B
Barium	0.0088	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:45	7440-39-3	
Beryllium	0.00025J	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:45	7440-41-7	
Boron	0.020J	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:45	7439-98-7	
Selenium	0.0014J	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 10:38	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	56.0	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.7	mg/L	1.0	0.60	1		02/19/22 14:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:34	16984-48-8	
Sulfate	6.2	mg/L	1.0	0.50	1		02/19/22 14:34	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-DUP-2		Lab ID: 92587091021		Collected: 02/10/22 00:00		Received: 02/11/22 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.2	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:13	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:51	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:51	7440-38-2	B
Barium	0.0084	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:51	7440-39-3	
Beryllium	0.00022J	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:51	7440-41-7	
Boron	0.018J	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:51	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 10:55	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	53.0	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.7	mg/L	1.0	0.60	1		02/19/22 14:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:47	16984-48-8	
Sulfate	6.1	mg/L	1.0	0.50	1		02/19/22 14:47	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-301		Lab ID: 92587091022		Collected: 02/11/22 09:20		Received: 02/11/22 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/14/22 11:37		
pH	5.59	Std. Units			1		02/14/22 11:37		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.5	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:18	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:57	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:57	7440-38-2	B
Barium	0.0077	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:57	7440-47-3	
Cobalt	0.0038J	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:57	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:57	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 10:58	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	66.0	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.1	mg/L	1.0	0.60	1		02/19/22 15:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 15:01	16984-48-8	
Sulfate	2.8	mg/L	1.0	0.50	1		02/19/22 15:01	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-4I		Lab ID: 92587091023		Collected: 02/11/22 10:40		Received: 02/11/22 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/14/22 11:37		
pH	5.95	Std. Units			1		02/14/22 11:37		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	7.5	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:23	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:03	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:03	7440-38-2	B
Barium	0.013	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:03	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:03	7439-92-1	
Lithium	0.012J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:03	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:01	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	102	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.1	mg/L	1.0	0.60	1		02/19/22 15:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 15:14	16984-48-8	
Sulfate	7.7	mg/L	1.0	0.50	1		02/19/22 15:14	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-5D		Lab ID: 92587091024		Collected: 02/10/22 17:46		Received: 02/11/22 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/14/22 11:37		
pH	6.99	Std. Units			1		02/14/22 11:37		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	24.8	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:27	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:20	7440-36-0	
Arsenic	0.0040J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:20	7440-38-2	B
Barium	0.0084	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:20	7440-41-7	
Boron	0.011J	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:20	7439-92-1	
Lithium	0.0076J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:20	7439-93-2	
Molybdenum	0.00096J	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:03	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	127	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.2	mg/L	1.0	0.60	1		02/19/22 15:54	16887-00-6	
Fluoride	0.055J	mg/L	0.10	0.050	1		02/19/22 15:54	16984-48-8	
Sulfate	4.9	mg/L	1.0	0.50	1		02/19/22 15:54	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-EB-2		Lab ID: 92587091025		Collected: 02/10/22 11:40		Received: 02/11/22 16:45		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:37	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:32	7440-36-0		
Arsenic	0.0028J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:32	7440-38-2	B	
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:32	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:32	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:32	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:32	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:32	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:32	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:32	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:32	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:32	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:32	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:32	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:06	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 16:07			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/19/22 16:08	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 16:08	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		02/19/22 16:08	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-FB-2		Lab ID: 92587091026		Collected: 02/10/22 17:13		Received: 02/11/22 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:42	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:38	7440-36-0	
Arsenic	0.0026J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:38	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:08	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/19/22 16:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 16:21	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/19/22 16:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch:	680120	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

METHOD BLANK: 3558408 Matrix: Water

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/23/22 19:59	

LABORATORY CONTROL SAMPLE: 3558409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558410 3558411

Parameter	Units	92587089004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	9.3	1	1	10.5	10.5	117	119	75-125	0	20	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 680226 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3558817 Matrix: Water
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/23/22 22:33	

LABORATORY CONTROL SAMPLE: 3558818

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558819 3558820

Parameter	Units	92587091010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	30.3	1	1	30.2	29.9	-12	-45	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 680115 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

METHOD BLANK: 3558393 Matrix: Water
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/23/22 18:18	
Arsenic	mg/L	ND	0.0050	0.0011	02/23/22 18:18	
Barium	mg/L	ND	0.0050	0.00067	02/23/22 18:18	
Beryllium	mg/L	ND	0.00050	0.000054	02/23/22 18:18	
Boron	mg/L	ND	0.040	0.0086	02/23/22 18:18	
Cadmium	mg/L	ND	0.00050	0.00011	02/23/22 18:18	
Chromium	mg/L	ND	0.0050	0.0011	02/23/22 18:18	
Cobalt	mg/L	ND	0.0050	0.00039	02/23/22 18:18	
Copper	mg/L	ND	0.0050	0.00050	02/23/22 18:18	
Lead	mg/L	ND	0.0010	0.00089	02/23/22 18:18	
Lithium	mg/L	ND	0.030	0.00073	02/23/22 18:18	
Molybdenum	mg/L	ND	0.010	0.00074	02/23/22 18:18	
Nickel	mg/L	ND	0.0050	0.00071	02/23/22 18:18	
Selenium	mg/L	ND	0.0050	0.0014	02/23/22 18:18	
Silver	mg/L	ND	0.0050	0.00044	02/23/22 18:18	
Thallium	mg/L	ND	0.0010	0.00018	02/23/22 18:18	
Vanadium	mg/L	ND	0.010	0.0019	02/23/22 18:18	
Zinc	mg/L	ND	0.010	0.0070	02/23/22 18:18	

LABORATORY CONTROL SAMPLE: 3558394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.11	106	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	111	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Copper	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Nickel	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.11	105	80-120	
Silver	mg/L	0.1	0.10	104	80-120	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

LABORATORY CONTROL SAMPLE: 3558394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.10	101	80-120	
Vanadium	mg/L	0.1	0.11	107	80-120	
Zinc	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558395 3558396

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92587089002	Spike Conc.	Spike Conc.	Result								
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	105	108	75-125	3	20		
Arsenic	mg/L	0.0021J	0.1	0.1	0.10	0.11	103	105	75-125	2	20		
Barium	mg/L	0.083	0.1	0.1	0.18	0.18	92	100	75-125	4	20		
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	3	20		
Boron	mg/L	2.4	1	1	3.4	3.6	100	115	75-125	4	20		
Cadmium	mg/L	0.00033J	0.1	0.1	0.10	0.10	101	102	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	104	105	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20		
Copper	mg/L	0.0016J	0.1	0.1	0.10	0.10	99	98	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20		
Lithium	mg/L	0.0076J	0.1	0.1	0.11	0.11	103	103	75-125	0	20		
Molybdenum	mg/L	0.0011J	0.1	0.1	0.11	0.11	107	109	75-125	2	20		
Nickel	mg/L	0.0024J	0.1	0.1	0.11	0.11	104	104	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	2	20		
Silver	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	0.098	0.097	97	97	75-125	1	20		
Vanadium	mg/L	ND	0.1	0.1	0.11	0.11	109	108	75-125	1	20		
Zinc	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20		

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 680225 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3558813 Matrix: Water
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/24/22 16:57	
Arsenic	mg/L	0.0015J	0.0050	0.0011	02/24/22 16:57	
Barium	mg/L	ND	0.0050	0.00067	02/24/22 16:57	
Beryllium	mg/L	ND	0.00050	0.000054	02/24/22 16:57	
Boron	mg/L	ND	0.040	0.0086	02/24/22 16:57	
Cadmium	mg/L	ND	0.00050	0.00011	02/24/22 16:57	
Chromium	mg/L	0.0019J	0.0050	0.0011	02/24/22 16:57	
Cobalt	mg/L	ND	0.0050	0.00039	02/24/22 16:57	
Lead	mg/L	ND	0.0010	0.00089	02/24/22 16:57	
Lithium	mg/L	ND	0.030	0.00073	02/24/22 16:57	
Molybdenum	mg/L	ND	0.010	0.00074	02/24/22 16:57	
Selenium	mg/L	ND	0.0050	0.0014	02/24/22 16:57	
Thallium	mg/L	ND	0.0010	0.00018	02/24/22 16:57	

LABORATORY CONTROL SAMPLE: 3558814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Parameter	Units	92587091009		MS		MSD		3558815		3558816		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	110	75-125	3	20			
Arsenic	mg/L	0.0018J	0.1	0.1	0.10	0.11	102	104	75-125	2	20			
Barium	mg/L	0.0031J	0.1	0.1	0.11	0.11	102	106	75-125	4	20			
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	106	105	75-125	1	20			
Boron	mg/L	ND	1	1	1.1	1.1	109	106	75-125	3	20			
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	2	20			
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20			
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20			
Lead	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20			
Lithium	mg/L	0.021J	0.1	0.1	0.13	0.13	114	113	75-125	1	20			
Molybdenum	mg/L	0.0087J	0.1	0.1	0.12	0.12	107	110	75-125	2	20			
Selenium	mg/L	ND	0.1	0.1	0.099	0.10	98	103	75-125	5	20			
Thallium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20			

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch:	678406	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

METHOD BLANK: 3550211 Matrix: Water
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/16/22 14:36	

LABORATORY CONTROL SAMPLE: 3550212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550213 3550214

Parameter	Units	92587089001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0019	0.0018	77	74	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch:	678756	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019

METHOD BLANK: 3551942 Matrix: Water
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/18/22 13:04	

LABORATORY CONTROL SAMPLE: 3551943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551944 3551945

Parameter	Units	92588161001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0022	0.0022	88	87	75-125	1	20	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 679675 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3556124 Matrix: Water
Associated Lab Samples: 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/22/22 10:33	

LABORATORY CONTROL SAMPLE: 3556125

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3556126 3556127

Parameter	Units	3556126		3556127		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92587091020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0026	96	101	75-125	5	20

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678110 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: 92587091001, 92587091002

METHOD BLANK: 3548928 Matrix: Water
Associated Lab Samples: 92587091001, 92587091002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/14/22 15:13	

LABORATORY CONTROL SAMPLE: 3548929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	80-120	

SAMPLE DUPLICATE: 3548930

Parameter	Units	92587701001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	299	297	1	25	

SAMPLE DUPLICATE: 3548931

Parameter	Units	92587089005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678369 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: 92587091003, 92587091004, 92587091005

METHOD BLANK: 3550014 Matrix: Water
Associated Lab Samples: 92587091003, 92587091004, 92587091005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/15/22 16:02	

LABORATORY CONTROL SAMPLE: 3550015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3550016

Parameter	Units	92587091003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	151	152	1	25	

SAMPLE DUPLICATE: 3550017

Parameter	Units	92587322007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1160	1080	7	25	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678370 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: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017

METHOD BLANK: 3550019 Matrix: Water
Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/15/22 16:29	

LABORATORY CONTROL SAMPLE: 3550020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	80-120	

SAMPLE DUPLICATE: 3550021

Parameter	Units	92587705001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	36.0	37.0	3	25	

SAMPLE DUPLICATE: 3550022

Parameter	Units	92587091011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 679091 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: 92587091018, 92587091019, 92587091020, 92587091021, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3553375 Matrix: Water
Associated Lab Samples: 92587091018, 92587091019, 92587091020, 92587091021, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/17/22 16:05	

LABORATORY CONTROL SAMPLE: 3553376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	374	94	80-120	

SAMPLE DUPLICATE: 3553377

Parameter	Units	92587319023 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	299	300	0	25	

SAMPLE DUPLICATE: 3553378

Parameter	Units	92587089012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	190	186	2	25	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch: 679094

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: 92587091022, 92587091023

METHOD BLANK: 3553381

Matrix: Water

Associated Lab Samples: 92587091022, 92587091023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/17/22 17:00	

LABORATORY CONTROL SAMPLE: 3553382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	365	91	80-120	

SAMPLE DUPLICATE: 3553383

Parameter	Units	92587090008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	772	800	4	25	

SAMPLE DUPLICATE: 3553384

Parameter	Units	92587090019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	48.0	58.0	19	25	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678235 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: 92587091001, 92587091002

METHOD BLANK: 3549593 Matrix: Water
Associated Lab Samples: 92587091001, 92587091002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/15/22 01:58	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 01:58	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 01:58	

LABORATORY CONTROL SAMPLE: 3549594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.8	104	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549595 3549596

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585602018	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	10.2	50	50	64.0	63.6	108	107	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	106	105	90-110	1	10		
Sulfate	mg/L	20.0	50	50	73.7	73.7	107	107	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549597 3549598

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92587089005	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	ND	50	50	52.3	53.6	105	107	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	107	90-110	3	10		
Sulfate	mg/L	ND	50	50	52.2	53.5	104	107	90-110	2	10		

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678236 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: 92587091003, 92587091004, 92587091005

METHOD BLANK: 3549599 Matrix: Water
Associated Lab Samples: 92587091003, 92587091004, 92587091005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/15/22 09:24	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 09:24	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 09:24	

LABORATORY CONTROL SAMPLE: 3549600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549601 3549602

Parameter	Units	92587091003		3549601		3549602		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	3.2	50	50	56.7	57.6	107	109	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	110	112	90-110	2	10	M1	
Sulfate	mg/L	50.9	50	50	87.2	88.3	73	75	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549603 3549604

Parameter	Units	92587240001		3549603		3549604		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	9.5	50	50	2.9	2.9	-13	-13	90-110	1	10	M1	
Fluoride	mg/L	0.29	2.5	2.5	0.11	0.11	-7	-7	90-110	2	10	M1	
Sulfate	mg/L	1.5	50	50	2.4	2.3	2	2	90-110	2	10	M1	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678537 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: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016

METHOD BLANK: 3551059 Matrix: Water
Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/16/22 09:35	
Fluoride	mg/L	ND	0.10	0.050	02/16/22 09:35	
Sulfate	mg/L	ND	1.0	0.50	02/16/22 09:35	

LABORATORY CONTROL SAMPLE: 3551060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551061 3551062

Parameter	Units	92585949014		3551062		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	ND	50	50	62.2	59.5	124	119	90-110	4	10 M1
Fluoride	mg/L	ND	2.5	2.5	3.0	2.9	120	114	90-110	5	10 M1
Sulfate	mg/L	ND	50	50	62.0	59.6	124	119	90-110	4	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551063 3551064

Parameter	Units	92587091007		3551064		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	1.0	50	50	63.8	61.5	126	121	90-110	4	10 M1
Fluoride	mg/L	0.057J	2.5	2.5	3.1	3.0	123	119	90-110	3	10 M1
Sulfate	mg/L	9.3	50	50	71.8	69.6	125	121	90-110	3	10 M1

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678877 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: 92587091017

METHOD BLANK: 3552679 Matrix: Water
Associated Lab Samples: 92587091017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/17/22 01:57	
Fluoride	mg/L	ND	0.10	0.050	02/17/22 01:57	
Sulfate	mg/L	ND	1.0	0.50	02/17/22 01:57	

LABORATORY CONTROL SAMPLE: 3552680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	47.1	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552681 3552682

Parameter	Units	92587091017		3552681		3552682		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	1.7	1.7	50	50	50.7	51.6	98	100	90-110	2	10	
Fluoride	mg/L	0.10	0.10	2.5	2.5	2.5	2.6	97	99	90-110	2	10	
Sulfate	mg/L	3.9	3.9	50	50	52.8	53.7	98	100	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552683 3552684

Parameter	Units	92587687006		3552683		3552684		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	ND	ND	50	50	51.0	51.1	102	102	90-110	0	10	
Fluoride	mg/L	ND	ND	2.5	2.5	2.5	2.5	101	99	90-110	1	10	
Sulfate	mg/L	ND	ND	50	50	50.8	50.8	101	101	90-110	0	10	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 679365 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: 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3554816 Matrix: Water
Associated Lab Samples: 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/19/22 13:13	
Fluoride	mg/L	ND	0.10	0.050	02/19/22 13:13	
Sulfate	mg/L	ND	1.0	0.50	02/19/22 13:13	

LABORATORY CONTROL SAMPLE: 3554817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554818 3554819

Parameter	Units	92587091018		3554819		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	4.4	50	54.8	55.6	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.6	2.7	104	106	90-110	2	10	
Sulfate	mg/L	2.4	50	52.5	53.6	100	102	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554820 3554821

Parameter	Units	92587090007		3554821		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	4.2	50	55.9	56.1	103	104	90-110	0	10	
Fluoride	mg/L	ND	2.5	3.0	3.1	121	123	90-110	1	10 M1	
Sulfate	mg/L	452	50	488	491	73	78	90-110	1	10 M1	

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QUALIFIERS

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

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.

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: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587091001	YGWA-39				
92587091002	YGWA-40				
92587091003	YGWA-47				
92587091004	GWA-2				
92587091006	YGWA-1I				
92587091007	YGWA-1D				
92587091008	YGWA-2I				
92587091009	YGWA-3I				
92587091010	YGWA-3D				
92587091013	YGWA-17S				
92587091014	YGWA-18S				
92587091015	YGWA-18I				
92587091016	YGWA-20S				
92587091017	YGWA-21I				
92587091018	YGWA-5I				
92587091020	YGWA-14S				
92587091022	YGWA-30I				
92587091023	YGWA-4I				
92587091024	YGWA-5D				
92587091001	YGWA-39	EPA 3010A	680120	EPA 6010D	680402
92587091002	YGWA-40	EPA 3010A	680120	EPA 6010D	680402
92587091003	YGWA-47	EPA 3010A	680120	EPA 6010D	680402
92587091004	GWA-2	EPA 3010A	680120	EPA 6010D	680402
92587091005	UP-DUP-1	EPA 3010A	680120	EPA 6010D	680402
92587091006	YGWA-1I	EPA 3010A	680120	EPA 6010D	680402
92587091007	YGWA-1D	EPA 3010A	680120	EPA 6010D	680402
92587091008	YGWA-2I	EPA 3010A	680120	EPA 6010D	680402
92587091009	YGWA-3I	EPA 3010A	680226	EPA 6010D	680419
92587091010	YGWA-3D	EPA 3010A	680226	EPA 6010D	680419
92587091011	UP-EB-1	EPA 3010A	680226	EPA 6010D	680419
92587091012	UP-FB-1	EPA 3010A	680226	EPA 6010D	680419
92587091013	YGWA-17S	EPA 3010A	680226	EPA 6010D	680419
92587091014	YGWA-18S	EPA 3010A	680226	EPA 6010D	680419
92587091015	YGWA-18I	EPA 3010A	680226	EPA 6010D	680419
92587091016	YGWA-20S	EPA 3010A	680226	EPA 6010D	680419
92587091017	YGWA-21I	EPA 3010A	680226	EPA 6010D	680419
92587091018	YGWA-5I	EPA 3010A	680226	EPA 6010D	680419
92587091019	UP-DUP-3	EPA 3010A	680226	EPA 6010D	680419
92587091020	YGWA-14S	EPA 3010A	680226	EPA 6010D	680419
92587091021	UP-DUP-2	EPA 3010A	680226	EPA 6010D	680419
92587091022	YGWA-30I	EPA 3010A	680226	EPA 6010D	680419
92587091023	YGWA-4I	EPA 3010A	680226	EPA 6010D	680419
92587091024	YGWA-5D	EPA 3010A	680226	EPA 6010D	680419
92587091025	UP-EB-2	EPA 3010A	680226	EPA 6010D	680419
92587091026	UP-FB-2	EPA 3010A	680226	EPA 6010D	680419
92587091001	YGWA-39	EPA 3005A	680115	EPA 6020B	680441
92587091002	YGWA-40	EPA 3005A	680115	EPA 6020B	680441

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587091003	YGWA-47	EPA 3005A	680115	EPA 6020B	680441
92587091004	GWA-2	EPA 3005A	680115	EPA 6020B	680441
92587091005	UP-DUP-1	EPA 3005A	680115	EPA 6020B	680441
92587091006	YGWA-1I	EPA 3005A	680115	EPA 6020B	680441
92587091007	YGWA-1D	EPA 3005A	680115	EPA 6020B	680441
92587091008	YGWA-2I	EPA 3005A	680115	EPA 6020B	680441
92587091009	YGWA-3I	EPA 3005A	680225	EPA 6020B	680450
92587091010	YGWA-3D	EPA 3005A	680225	EPA 6020B	680450
92587091011	UP-EB-1	EPA 3005A	680225	EPA 6020B	680450
92587091012	UP-FB-1	EPA 3005A	680225	EPA 6020B	680450
92587091013	YGWA-17S	EPA 3005A	680225	EPA 6020B	680450
92587091014	YGWA-18S	EPA 3005A	680225	EPA 6020B	680450
92587091015	YGWA-18I	EPA 3005A	680225	EPA 6020B	680450
92587091016	YGWA-20S	EPA 3005A	680225	EPA 6020B	680450
92587091017	YGWA-21I	EPA 3005A	680225	EPA 6020B	680450
92587091018	YGWA-5I	EPA 3005A	680225	EPA 6020B	680450
92587091019	UP-DUP-3	EPA 3005A	680225	EPA 6020B	680450
92587091020	YGWA-14S	EPA 3005A	680225	EPA 6020B	680450
92587091021	UP-DUP-2	EPA 3005A	680225	EPA 6020B	680450
92587091022	YGWA-30I	EPA 3005A	680225	EPA 6020B	680450
92587091023	YGWA-4I	EPA 3005A	680225	EPA 6020B	680450
92587091024	YGWA-5D	EPA 3005A	680225	EPA 6020B	680450
92587091025	UP-EB-2	EPA 3005A	680225	EPA 6020B	680450
92587091026	UP-FB-2	EPA 3005A	680225	EPA 6020B	680450
92587091001	YGWA-39	EPA 7470A	678406	EPA 7470A	678665
92587091002	YGWA-40	EPA 7470A	678406	EPA 7470A	678665
92587091003	YGWA-47	EPA 7470A	678406	EPA 7470A	678665
92587091004	GWA-2	EPA 7470A	678406	EPA 7470A	678665
92587091005	UP-DUP-1	EPA 7470A	678406	EPA 7470A	678665
92587091006	YGWA-1I	EPA 7470A	678406	EPA 7470A	678665
92587091007	YGWA-1D	EPA 7470A	678406	EPA 7470A	678665
92587091008	YGWA-2I	EPA 7470A	678406	EPA 7470A	678665
92587091009	YGWA-3I	EPA 7470A	678756	EPA 7470A	679374
92587091010	YGWA-3D	EPA 7470A	678756	EPA 7470A	679374
92587091011	UP-EB-1	EPA 7470A	678756	EPA 7470A	679374
92587091012	UP-FB-1	EPA 7470A	678756	EPA 7470A	679374
92587091013	YGWA-17S	EPA 7470A	678756	EPA 7470A	679374
92587091014	YGWA-18S	EPA 7470A	678756	EPA 7470A	679374
92587091015	YGWA-18I	EPA 7470A	678756	EPA 7470A	679374
92587091016	YGWA-20S	EPA 7470A	678756	EPA 7470A	679374
92587091017	YGWA-21I	EPA 7470A	678756	EPA 7470A	679374
92587091018	YGWA-5I	EPA 7470A	678756	EPA 7470A	679374
92587091019	UP-DUP-3	EPA 7470A	678756	EPA 7470A	679374
92587091020	YGWA-14S	EPA 7470A	679675	EPA 7470A	679921
92587091021	UP-DUP-2	EPA 7470A	679675	EPA 7470A	679921
92587091022	YGWA-30I	EPA 7470A	679675	EPA 7470A	679921
92587091023	YGWA-4I	EPA 7470A	679675	EPA 7470A	679921

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587091024	YGWA-5D	EPA 7470A	679675	EPA 7470A	679921
92587091025	UP-EB-2	EPA 7470A	679675	EPA 7470A	679921
92587091026	UP-FB-2	EPA 7470A	679675	EPA 7470A	679921
92587091001	YGWA-39	SM 2540C-2015	678110		
92587091002	YGWA-40	SM 2540C-2015	678110		
92587091003	YGWA-47	SM 2540C-2015	678369		
92587091004	GWA-2	SM 2540C-2015	678369		
92587091005	UP-DUP-1	SM 2540C-2015	678369		
92587091006	YGWA-1I	SM 2540C-2015	678370		
92587091007	YGWA-1D	SM 2540C-2015	678370		
92587091008	YGWA-2I	SM 2540C-2015	678370		
92587091009	YGWA-3I	SM 2540C-2015	678370		
92587091010	YGWA-3D	SM 2540C-2015	678370		
92587091011	UP-EB-1	SM 2540C-2015	678370		
92587091012	UP-FB-1	SM 2540C-2015	678370		
92587091013	YGWA-17S	SM 2540C-2015	678370		
92587091014	YGWA-18S	SM 2540C-2015	678370		
92587091015	YGWA-18I	SM 2540C-2015	678370		
92587091016	YGWA-20S	SM 2540C-2015	678370		
92587091017	YGWA-21I	SM 2540C-2015	678370		
92587091018	YGWA-5I	SM 2540C-2015	679091		
92587091019	UP-DUP-3	SM 2540C-2015	679091		
92587091020	YGWA-14S	SM 2540C-2015	679091		
92587091021	UP-DUP-2	SM 2540C-2015	679091		
92587091022	YGWA-30I	SM 2540C-2015	679094		
92587091023	YGWA-4I	SM 2540C-2015	679094		
92587091024	YGWA-5D	SM 2540C-2015	679091		
92587091025	UP-EB-2	SM 2540C-2015	679091		
92587091026	UP-FB-2	SM 2540C-2015	679091		
92587091001	YGWA-39	EPA 300.0 Rev 2.1 1993	678235		
92587091002	YGWA-40	EPA 300.0 Rev 2.1 1993	678235		
92587091003	YGWA-47	EPA 300.0 Rev 2.1 1993	678236		
92587091004	GWA-2	EPA 300.0 Rev 2.1 1993	678236		
92587091005	UP-DUP-1	EPA 300.0 Rev 2.1 1993	678236		
92587091006	YGWA-1I	EPA 300.0 Rev 2.1 1993	678537		
92587091007	YGWA-1D	EPA 300.0 Rev 2.1 1993	678537		
92587091008	YGWA-2I	EPA 300.0 Rev 2.1 1993	678537		
92587091009	YGWA-3I	EPA 300.0 Rev 2.1 1993	678537		
92587091010	YGWA-3D	EPA 300.0 Rev 2.1 1993	678537		
92587091011	UP-EB-1	EPA 300.0 Rev 2.1 1993	678537		
92587091012	UP-FB-1	EPA 300.0 Rev 2.1 1993	678537		
92587091013	YGWA-17S	EPA 300.0 Rev 2.1 1993	678537		
92587091014	YGWA-18S	EPA 300.0 Rev 2.1 1993	678537		
92587091015	YGWA-18I	EPA 300.0 Rev 2.1 1993	678537		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587091016	YGWA-20S	EPA 300.0 Rev 2.1 1993	678537		
92587091017	YGWA-21I	EPA 300.0 Rev 2.1 1993	678877		
92587091018	YGWA-5I	EPA 300.0 Rev 2.1 1993	679365		
92587091019	UP-DUP-3	EPA 300.0 Rev 2.1 1993	679365		
92587091020	YGWA-14S	EPA 300.0 Rev 2.1 1993	679365		
92587091021	UP-DUP-2	EPA 300.0 Rev 2.1 1993	679365		
92587091022	YGWA-30I	EPA 300.0 Rev 2.1 1993	679365		
92587091023	YGWA-4I	EPA 300.0 Rev 2.1 1993	679365		
92587091024	YGWA-5D	EPA 300.0 Rev 2.1 1993	679365		
92587091025	UP-EB-2	EPA 300.0 Rev 2.1 1993	679365		
92587091026	UP-FB-2	EPA 300.0 Rev 2.1 1993	679365		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO# : 92587091



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/9/22*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: *083*

Type of Ice:

Wet Blue None

Cooler Temp:

2.3

Correction Factor:
Add/Subtract (°C)

10.2

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

2.5

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: _____

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

Project #

WO# : 92587091

PM: NMG

Due Date: 02/23/22

CLIENT: GA-GA Power

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

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

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)	AG3A(DG3A)-250 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)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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 DEHNR Certificat on 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:
 Phone:
 Requested Due Date:

Section B

Required Project Information:

Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Project Name: Plant Yates Pooled Upgradient
 Project Number:

Section C

Invoice Information:

Attention: Southern Co.
 Company Name:
 Address:
 Pace Order:
 Pace Project Manager: Nicole D'Olivo
 Pace Profile #: 10840

Regulatory Agency:
 State/Location:
 Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	DATE	TIME	RESIDUAL CHLORINE (Y/N)	PH: 5.78 5.20	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
				START	END																
1	YGWA-39	WT G	G	2/12/15																	
2	YGWA-40	WT G	G	2/12/15																	
3	YGWA-11	WT G	G	2/12/15																	
4	YGWA-1B	WT G	G																		
5	YGWA-21	WT G	G																		
6	YGWA-21	WT G	G																		
7	YGWA-2D	WT G	G																		
8	YGWA-44S	WT G	G																		
9	UR-DUP-2	WT G	G																		
10	YGWA-301	WT G	G																		
11	UP-EB-1	WT G	G																		
12	UP-FB-1	WT G	G																		

Additional Comments:
 Anons Suite 300.0 (CL, F, Sulfate)
 App III Metals: Boron 8020B, Ca 60100,
 App III 8020B: Zn, Ag, Ni, V
 App IV: Metals 8020B: 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: *Van Lioszynski*
 PRINT Name of SAMPLER:
 SIGNATURE of SAMPLER:
 DATE Signed: 2/12/15

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
 Phone: _____ Fax: _____
 Requested Due Date: _____

Required Project Information:
 Report To: SCS Contacts
 Cooy To: Arcadis Contacts
 Project Name: Plant Yates Pooled Upgradient
 Project Number: _____

Invoice Information:
 Attention: Southern Co.
 Company Name: _____
 Address: _____
 Pave Quote: _____
 Pave Project Manager: Nicole D'Ono
 Pave Profile #: 10840

Regulatory Agency
 State / Location: Georgia

Section B

Section C

Page : _____ Of _____

ITEM #	SAMPLE ID (A-Z, 0-9 / , -) One Character per box. Sample IDs must be unique	MATRIX Drinking Water Waste Water Product Soil Sludge Other Air Other Thames	CODE DW WT WW P SL CL WP AR OT TS	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives							Analyses Test				Residual Chlorine (Y/N)	pH																		
				START DATE	START TIME	END DATE	END TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)			RAD 9315/9320	App I / II (gypsum only)																
MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	WT	G	WT	G	WT	G	WT	G	WT	G	WT	G	WT	G	WT	G	WT	G	WT	G	WT	G	WT	G	WT	G	WT	G										
1	YGWA-47																																						
2	GWK-2																																						
3	UP-BUP-1																																						
4	YGWA-4T																																						
5	YGWA-5T																																						
6	UP-BUP-3																																						
7	YGWA-50																																						
8	YGWA-17S																																						
9	YGWA-18S																																						
10	YGWA-18L																																						
11	YGWA-20S																																						
12	YGWA-21T																																						
ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																							
				Arcadis		2/9/12		0825		Arcadis		2/9/12		0825																									
				Arcadis		2/9/12		1018		Arcadis		2/9/12		1018																									
				Arcadis		2/9/12		0825		Arcadis		2/9/12		0825																									
				Arcadis		2/9/12		1018		Arcadis		2/9/12		1018																									
				Arcadis		2/9/12		0825		Arcadis		2/9/12		0825																									
				Arcadis		2/9/12		1018		Arcadis		2/9/12		1018																									

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mack Crest

SIGNATURE of SAMPLER: Mack Crest

DATE Signed: 2/9/12

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: _____
 Phone: _____
 Requested Due Date: _____

Section B

Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Purchase Order #: _____
 Project Name: Plant Yales Pooled Upgradient
 Project Number: _____

Section C

Invoice Information:
 Attribution: Southern Co.
 Company Name: _____
 Address: _____
 POC Order: _____
 POC Project Manager: Nicole Dolio
 POC Profile #: 10840

Page: _____ Of _____

Regulatory Agency: _____
 State / Location: Georgia

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / -)</small> Sample IDs must be unique	MATRIX <small>Drinking Water Waste Water Process Other Tissue</small>	CODE <small>GW WW P SL CL WP AR OT TS</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyses Test	Requested Analyte Filtered (Y/N)	Residual Chlorine (Y/N)	PH:
						START DATE / TIME	END DATE / TIME							
1	YGWVA-21								5					
2	GWVA-2								5					
3	UP-DUP-1								5					
4	YGWVA-1								5					
5	YGWVA-5								5					
6	UP-DUP-3								5					
7	YGWVA-5D								5					
8	YGWVA-7S								5					
9	LEGVA-1BS								5					
10	YGWVA-1BL								5					
11	YGWVA-20S								5					
12	YGWVA-21								5					

ADDITIONAL COMMENTS:
 Actions Suite 300.0 (Cl, F, Sulfate)
 App III Metals: Boron 6020B, Ca 6010D,
 App III 6020B, Zn, Ag, Ni, V
 App IV Metals: 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: Kelli Carson
 SIGNATURE of SAMPLER: *Kelli Carson* DATE: 09-22

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
<i>Kelli Carson Arcadis</i>	2/19/22	0840	<i>Kelli Carson</i>	2/19/22	0840				
<i>Arcadis</i>	2/19/22	08	<i>McLaren</i>	2/19	1019				

Georgia Power Co. – Plant Yates

Data Review Report

Radium Analyses

SDG #92587081

Analyses Performed By:

Pace Analytical Services – Greensburg, Pennsylvania

Report #45262R

Review Level: Tier II

Project: 30052922.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Group (SDG) #92587081 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
YGWA-39	92587081001	Water	2/8/2022		X		
YGWA-40	92587081002	Water	2/8/2022		X		
YGWA-47	92587081003	Water	2/8/2022		X		
GWA-2	92587081004	Water	2/8/2022		X		
UP-DUP-1	92587081005	Water	2/8/2022	GWA-2	X		
YGWA-1I	92587081006	Water	2/9/2022		X		
YGWA-1D	92587081007	Water	2/9/2022		X		
YGWA-2I	92587081008	Water	2/9/2022		X		
YGWA-3I	92587081009	Water	2/9/2022		X		
YGWA-3D	92587081010	Water	2/9/2022		X		
UP-EB-1	92587081011	Water	2/9/2022		X		
UP-FB-1	92587081012	Water	2/9/2022		X		
YGWA-17S	92587081013	Water	2/9/2022		X		
YGWA-18S	92587081014	Water	2/9/2022		X		
YGWA-18I	92587081015	Water	2/9/2022		X		
YGWA-20S	92587081016	Water	2/9/2022		X		
YGWA-21I	92587081017	Water	2/9/2022		X		
YGWA-5I	92587081018	Water	2/10/2022		X		
UP-DUP-3	92587081019	Water	2/10/2022	YGWA-5I	X		

Data Review Report

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-14S	92587081020	Water	2/10/2022		X		
UP-DUP-2	92587081021	Water	2/10/2022	YGWA-14S	X		
YGWA-30I	92587081022	Water	2/11/2022		X		
YGWA-4I	92587081023	Water	2/11/2022		X		
YGWA-5D	92587081024	Water	2/10/2022		X		
UP-EB-2	92587081025	Water	2/10/2022		X		
UP-FB-2	92587081026	Water	2/10/2022		X		

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 9315 and 9320. 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.

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 (± 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_{Sample} = uncertainty of the sample

U_{Blank} = 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-228, Radium-226, and total Radium were detected in the QA blanks, however, the activities were measured as less than the uncertainty and MDC or between the uncertainty and MDC as described above. Hence, the blank results are considered non-detect and no qualification of the results was required.

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 ± 3 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.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

u²(x), u²(x₀), u²(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 ± 3 sigma. Warning limits have been established as ± 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 ± 3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

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

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 ± 3 sigma. Warning limits have been established as ± 2 sigma.

The laboratory duplicate analysis performed on sample location YGWA-39 in association with SW-846 9315 analysis exhibited acceptable difference between the results.

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
GWA-2 / UP-DUP-1	Radium-226	0.151 ± 0.105	0.138 ± 0.115	AC
	Radium-228	0.311 ± 0.281	0.617 ± 0.346	
	Total Radium	0.462 ± 0.386	0.755 ± 0.461	
YGWA-5I / UP-DUP-3	Radium-226	0.0387 ± 0.0686	0.183 ± 0.111	AC
	Radium-228	0.336 ± 0.397	-0.150 ± 0.507	
	Total Radium	0.375 ± 0.466	0.183 ± 0.618	
YGWA-14S / UP-DUP-2	Radium-226	-0.0197 ± 0.0632	0.0406 ± 0.0923	AC
	Radium-228	-0.199 ± 0.449	-0.195 ± 0.313	
	Total Radium	0.000 ± 0.512	0.0406 ± 0.405	

Note:

AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

The differences in the results between the parent sample YGWA-5I and field duplicate sample UP-DUP-3 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

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

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = 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:

- YGWA-39, YGWA-1D, and YGWA-4I – Radium-228
- GWA-2, UP-DUP-1, YGWA-18S, YGWA-18I, YGWA-20S, YGWA-5I, YGWA-14S, UP-DUP-2, and YGWA-30I – Radium-226, Radium-228, and total Radium
- YGWA-40, YGWA-47, YGWA-1I, YGWA-2I, YGWA-17S, and UP-DUP-3 – 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	
Miscellaneous Instrumentation					
Tier II Validation					
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: 

DATE: April 26, 2022

PEER REVIEW: Dennis Capria

DATE: April 27, 2022

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:	Atlanta, GA	
Email To:		
Phone:		Fax
Requested Due Date:		

Section B

Required Project Information:

Report To:	SCS Contacts	
Copy To:	Arcadis Contacts	
Purchase Order #:		
Project Name:	Plant Yates Pooled Upgradient	
Project Number:		

Section C

Invoice Information:

Attention:	Southern Co.	
Company Name:		
Address:		
Quote #:		
Quote Project Manager:	Nicole D'Oleo	
Quote Profile #:	10840	

Page : 1 Of 1

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique</small>	MATRIX <small>Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue</small>	CODE <small>DW WT WW P SL OK WP AR OT TS</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N Analytes Test	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)	pH		
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	App IIIIV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320			App I/II (ppbsum only)	
						DATE	TIME	DATE	TIME																			
1	YGWA-39	WT	G			2/22/22	1455	-	-		5	2		3							X	X	X	X	X			pH: 5.78
2	YGWA-40	WT	G			2/22/22	1522	-	-		5	2		3							X	X	X	X	X			pH: 5.26
3	YGWA-11	WT	G			-	-	-	-		5	2		3							X	X	X	X	X			pH:
4	YGWA-18	WT	G			-	-	-	-		5	2		3							X	X	X	X	X			pH:
5	YGWA-21	WT	G			-	-	-	-		5	2		3							X	X	X	X	X			pH:
6	YGWA-31	WT	G			-	-	-	-		5	2		3							X	X	X	X	X			pH:
7	YGWA-38	WT	G			-	-	-	-		5	2		3							X	X	X	X	X			pH:
8	YGWA-143	WT	G			-	-	-	-		5	2		3							X	X	X	X	X			pH:
9	UP-DUP-2	WT	G			-	-	-	-		5	2		3							X	X	X	X	X			pH:
10	YGWA-301	WT	G			-	-	-	-		5	2		3							X	X	X	X	X			pH:
11	UP-FB-1	WT	G			-	-	-	-		5	2		3							X	X	X	X	X			pH:
12	UP-FB-1	WT	G			-	-	-	-		5	2		3							X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
							TEMP IN C	Received on Ice (Y/N)	CUSTODY Sealed Cooler (Y/N)	Samples Intact (Y/N)			
Anions Suite 300.0 (Cl, F, Sulfate)	<i>[Signature]</i> /Arcadis	2/9/22	0825	<i>[Signature]</i> /Arcadis	2/12/22	0825							
App III Metals: Boron 6020B, Ca 60100; App III 6020B: Zn, Ag, Ni, V	<i>[Signature]</i> /Arcadis	2/9/22	1018	<i>[Signature]</i> /Arcadis	2/9	1018							
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: <i>Vin Liposzyński</i>	
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed: <i>2/9/22</i>

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: Phone: Fax Requested Due Date:		Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Purchase Order #: Project Name: Plant Yates Pooled Upgradient Project Number:		Section C Invoice Information: Attention: Southern Co. Company Name: Address: Pace Quote: Person Project Manager: Nicole D'Oleo Face Profile #: 10840	
Page :		Of		Regulatory Agency	
State / Location				Georgia	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -) Sample IDs must be unique	MATRIX CODE (see valid codes to left) MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WF AR OT TS	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives										Y/N	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)	pH		
				START		END			# OF CONTAINERS	Preservatives										App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I/II (gypsum only)				
				DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analytes Test									App III/IV Metals	Cl, F, SO4
1	YGWA-47	WT	G	2/18/22	11:40	-	-	-	5	2	3																	
2	YGWA-47	WT	G						5	2	3																	
3	UP-DUP-1	WT	G						5	2	3																	
4	YGWA-47	WT	G						5	2	3																	
5	YGWA-51	WT	G						5	2	3																	
6	UP-DUP-3	WT	G						5	2	3																	
7	YGWA-50	WT	G						5	2	3																	
8	YGWA-175	WT	G						5	2	3																	
9	YGWA-183	WT	G						5	2	3																	
10	YGWA-181	WT	G						5	2	3																	
11	YGWA-205	WT	G						5	2	3																	
12	YGWA-211	WT	G						5	2	3																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
Anions Suite 300.0 (Cl, F, Sulfate) App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V		2/19/22	0825		2/19/22	0825		
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)		2/19/22	1018		2/19/22	1018		

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER: Mark Chest				
DATE Signed: 2/19/22					

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:		Section B Required Project Information:		Section C Invoice Information:		Page: Of
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.		Regulatory Agency
Address: Atlanta, GA		Copy To: Arcadis Contacts		Company Name:		
Email To:		Purchase Order #:		Address:		State / Location
Phone: Fax: 		Project Name: Plant Yates Pooled Upgradient		Pace Quote:		
Requested Due Date:		Project Number:		Pace Project Manager: Nicole D'Oleo		Georgia
				Pace Profile #: 10840		

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 (E-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives												Analytes Test Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)						
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O8	Methanol	Other	App IIIIV Metals	Cl, F, SO4	TDS (2540C)		RAD 931B932D	App I/II (ppbsum only)	pH																
				DATE	TIME	DATE	TIME																																	
1	YGWA-39	WT	G						5	2									X	X	X	X																		
2	YGWA-48	WT	G						5	2									X	X	X	X																		
3	YGWA-11	WT	G	2/1/22	1345	-	-		5	2									X	X	X	X																		
4	YGWA-1D	WT	G	2/1/22	1445	-	-		5	2									X	X	X	X																		
5	YGWA-2I	WT	G	2/1/22	1735	-	-		5	2									X	X	X	X																		
6	YGWA-3I	WT	G	2/1/22	1735	-	-		5	2									X	X	X	X																		
7	YGWA-3D	WT	G	2/1/22	1735	-	-		5	2									X	X	X	X																		
8	YGWA-14S	WT	G	2/1/22	1820	-	-		5	2									X	X	X	X																		
9	UP-DUP-2	WT	G						5	2									X	X	X	X																		
10	YGWA-30I	WT	G						5	2									X	X	X	X																		
11	UP-FB-1	WT	G						5	2									X	X	X	X																		
12	UP-FB-1	WT	G						5	2									X	X	X	X																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
							TEMP in C	Received on ice (Y/N)	Cooling Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
Anions Suite 300.0 (Cl, F, Sulfate)	<i>[Signature]</i> Arcadis	2/10/22	1435	<i>[Signature]</i>	2/10/22	1435					
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<i>[Signature]</i> Arcadis	2/10/22	1700	<i>[Signature]</i>	2/10/22	1700					
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: <i>Kim Lapszynski</i>		
SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed: 2/10/22

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: Phone: Fax Requested Due Date:		Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Purchase Order #: Project Name: Plant Yates Pooled Upgradient Project Number:		Section C Invoice Information: Attention: Southern Co. Company Name: Address: Pace Quote: Pace Project Manager: Nicole D'Oleo Pace Profile #: 10840		Page: Of	
				Regulatory Agency:			
				State / Location: Georgia			

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								Y/N	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)		
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	H2S2O3	Methanol	Other		Analytical Test	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320		App I / II (ppm only)	
						DATE	TIME	DATE	TIME																			
1	YGWA-09	WT	G							5	2							X	X	X	X							pH:
2	YGWA-40	WT	G							5	2							X	X	X	X							pH:
3	YGWA-11	WT	G							5	2							X	X	X	X							pH:
4	YGWA-1D	WT	G							5	2							X	X	X	X							pH:
5	YGWA-21	WT	G							5	2							X	X	X	X							pH:
6	YGWA-31	WT	G							5	2							X	X	X	X							pH:
7	YGWA-3D	WT	G							5	2							X	X	X	X							pH:
8	YGWA-143	WT	G							6	2							X	X	X	X							pH:
9	UP-DUP-2	WT	G							5	2							X	X	X	X							pH:
10	YGWA-301	WT	G							5	2							X	X	X	X							pH:
11	UP-EB-1	WT	G	2/19/22	1306					5	2							X	X	X	X							
12	UP-FB-1	WT	G	2/19/22	1047					5	2							X	X	X	X							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
							TEMP in C	Received on Ice (Y/N)	Cleanbody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware Arcadis	2/10/22	1435	Jessica Ware	2/10/22	1435				
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	Jessica Ware Arcadis	2/10/22	1700	Jessica Ware	2/10/22	1700				
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		TEMP in C	Received on Ice (Y/N)	Cleanbody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Jessica Ware					
SIGNATURE of SAMPLER: Jessica Ware	DATE Signed: 2/19/22				

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:		Section B Required Project Information:		Section C Invoice Information:		Page : Of
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.		Regulatory Agency
Address: Atlanta, GA		Copy To: Arcadis Contacts		Company Name:		
Email To:		Purchase Order #:		Address:		State / Location
Phone:		Project Name: Plant Yates Pooled Upgradient		Pace Quote:		
Requested Due Date:		Project Number:		Pace Project Manager: Nicole D'Oleo		Georgia
				Pace Profile #: 10840		

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, -,) Sample IDs must be unique</small>	MATRIX <small>Drinking Water Water Waste Water Product Sub/Solid Oil W/ps Air Other Toxic</small>	CODE <small>DW WT WW P SL OL WP AR OT TS</small>	MATRIX CODE <small>(see yield codes to left)</small>	SAMPLE TYPE <small>(G=GRAB C=COMP)</small>	COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSES TEST <small>App III/IV Metals Cl, F, SO4 TDS (2540C) RAD 9315/9320 App I/II (gypsum only)</small>	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)		
						START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3				Methanol	Other
						DATE	TIME	DATE	TIME													
1	YGWA-47	WT	G	-	-	-	-	-	-	5	2	3	-	-	-	-	-	-	-	-	-	-
2	GWA-2	WT	G	-	-	-	-	-	-	5	2	3	-	-	-	-	-	-	-	-	-	-
3	UP-DUP-1	WT	G	-	-	-	-	-	-	3	2	3	-	-	-	-	-	-	-	-	-	-
4	YGWA-4I	WT	G	-	-	-	-	-	-	5	2	3	-	-	-	-	-	-	-	-	-	-
5	YGWA-5I	WT	G	-	-	-	-	-	-	5	2	3	-	-	-	-	-	-	-	-	-	-
6	UP-DUP-3	WT	G	-	-	-	-	-	-	5	2	3	-	-	-	-	-	-	-	-	-	-
7	YGWA-5B	WT	G	-	-	-	-	-	-	5	2	3	-	-	-	-	-	-	-	-	-	-
8	YGWA-17S	WT	G	2/19/22	1020	-	-	-	-	5	2	3	-	-	-	-	-	-	-	-	-	-
9	UGWA-18S	WT	G	2/19/22	1224	-	-	-	-	5	2	3	-	-	-	-	-	-	-	-	-	-
10	YGWA-18I	WT	G	2/19/22	1431	-	-	-	-	5	2	3	-	-	-	-	-	-	-	-	-	-
11	YGWA-20S	WT	G	2/19/22	1619	-	-	-	-	5	2	3	-	-	-	-	-	-	-	-	-	-
12	YGWA-21I	WT	G	2/19/22	1740	-	-	-	-	5	2	3	-	-	-	-	-	-	-	-	-	-

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	2/10/22	1435	[Signature] / Arcadis	2/10/22	1435	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	[Signature] / Arcadis	2/10/22	1700	[Signature]	2/10	1700	
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		TEMP in C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)
PRINT Name of SAMPLER: Jessica Ware	SIGNATURE of SAMPLER: [Signature]	
DATE Signed: 2/19/22		

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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:
 Phone: Fax
 Requested Due Date:

Section B

Required Project Information:

Report To: **SCS Contacts**
 Copy To: **Arcadis Contacts**
 Purchase Order #:
 Project Name: **Plant Yates Pooled Upgradient**
 Project Number:

Section C

Invoice Information:

Attention: **Southern Co.**
 Company Name:
 Address:
 Price Quote:
 Price Project Manager: **Nicole D'Oleo**
 Price Profile #: **10840**
 Regulatory Agency:
 State / Location:
 Georgia

Page: 59 of 64

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	CODE	SAMPLE TYPE (E=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Requested Analyte Filtered (Y/N)					Residual Chlorine (Y/N)								
					START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		App III Metals	Cl, F, SC4	TDS (2540C)	RA0 93159320	App I/II (ppb/um only)									
					DATE	TIME	DATE	TIME																									
1	YGWA-39	WT	G						5	2	3							X	X	X	X												
2	YGWA-40	WT	G						5	2	3							X	X	X	X											pH	
3	YGWA-1I	WT	G						5	2	3							X	X	X	X											pH	
4	YGWA-1D	WT	G						5	2	3							X	X	X	X											pH	
5	YGWA-2I	WT	G						5	2	3							X	X	X	X											pH	
6	YGWA-3I	WT	G						5	2	3							X	X	X	X											pH	
7	YGWA-3D	WT	G						5	2	3							X	X	X	X											pH	
8	YGWA-14S	WT	G						5	2	3							X	X	X	X											pH	
9	UP-DUP-2	WT	G						5	2	3							X	X	X	X											pH 7.50	
10	YGWA-30I	WT	G						5	2	3							X	X	X	X											pH 5.59	
11	UP-EB-1	WT	G						5	2	3							X	X	X	X												pH
12	UP-FB-1	WT	G						5	2	3							X	X	X	X												pH

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>Khariil Carson</i> / Arcadis	02/11/20	1645	<i>Joann</i>	2/11/20	1645	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V							
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		TEMP in C	Received on	CURED/ Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Khariil Carson</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed: <i>02/11/20</i>				

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:			
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.			
Address: Atlanta, GA		Copy To: Arcadis Contacts		Company Name:			
Email To:		Purchase Order #:		Address:		Regulatory Agency:	
Phone: Fax:		Project Name: Plant Yates Pooled Upgradient		Pace Quote:		State / Location:	
Requested Due Date:		Project Number:		Pace Project Manager: Nicole D'Oleao		Georgia	
				Pace Profile #: 10840			

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 Spill/Spill Oil SL Wipe WP Air AR Other OT Tissue TS</small>	CODE	MATRIX CODE <small>(see valid codes to left)</small>	SAMPLE TYPE <small>(G=GRAB C=COMP)</small>	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives											Analytes Test Y/N	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)
						START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4		TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)			
						DATE	TIME	DATE	TIME																			
1	UP-EB-2	WT	G		G	11/14/02				5	2	3								X	X	X	X				pH	
2	UP-FB-2	WT	G		G					5	2	3								X	X	X	X				pH	
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Arizons Suite 300.0 (Cl, F, Sulfate)	<i>Heather Carson</i> Arcadis	02/11/02	1645	<i>Juan F. Ruiz</i>	4/11/02	1645	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V							
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		TEMP in C	Refrigerated on Ice (Y/N)	Custody (Y/N)	Sealed (Y/N)	Cooled (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:						
DATE Signed:							

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page: 4 of 4
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.	Regulatory Agency
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:	
Email To:	Purchase Order #:	Address:	State / Location
Phone: <input type="checkbox"/> Fax	Project Name: Plant Yates Pooled Upgradient	Pace Quote:	
Requested Due Date:	Project Number:	Pace Project Manager: Nicole D'Oleo	Georgia
		Pace Profile #: 10840	

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, -,) Sample IDs must be unique</small>	MATRIX CODE <small>(see valid codes to left)</small>	SAMPLE TYPE <small>(G=GRAB C=COMP)</small>	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives										Analytes Test Y/N	Requested Analytes Filtered (Y/N)										Residual Chlorine (Y/N)
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals		Cl, F, SO4	TDS (2640C)	RAD 9916/9320	App I/II (gypsum only)	pH						
				DATE	TIME	DATE	TIME																							
1	UP-EB-2	WT	G					5	2	3													X	X	X	X				
2	UP-FB-2	WT	G	2/10/22	1713	-	-	5	2	3												X	X	X	X					
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>[Signature]</i> Arcadis	2/11/22	1445	<i>[Signature]</i> Arcadis	2/11/22	1445	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V	<i>[Signature]</i> Arcadis	2/11/22	1645	<i>[Signature]</i> Arcadis	2/11/22	1645	
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		TEMP C	Received (Y/N)	Custody (Y/N)	Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>[Signature]</i>							
SIGNATURE of SAMPLER: <i>[Signature]</i>							

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587081						No qualifiers assigned	

April 11, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 2022. 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,



Tyler Forney for
Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Becky Steever, 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: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

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 #: PA014572018-1

New Hampshire/TNI Certification #: 297617

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 #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

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

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587081001	YGWA-39	Water	02/08/22 14:55	02/09/22 10:18
92587081002	YGWA-40	Water	02/08/22 13:22	02/09/22 10:18
92587081003	YGWA-47	Water	02/08/22 11:40	02/09/22 10:18
92587081004	GWA-2	Water	02/08/22 11:50	02/09/22 10:18
92587081005	UP-DUP-1	Water	02/08/22 00:00	02/09/22 10:18
92587081006	YGWA-1I	Water	02/09/22 13:45	02/10/22 17:00
92587081007	YGWA-1D	Water	02/09/22 14:45	02/10/22 17:00
92587081008	YGWA-2I	Water	02/09/22 17:35	02/10/22 17:00
92587081009	YGWA-3I	Water	02/09/22 11:35	02/10/22 17:00
92587081010	YGWA-3D	Water	02/09/22 10:20	02/10/22 17:00
92587081011	UP-EB-1	Water	02/09/22 13:06	02/10/22 17:00
92587081012	UP-FB-1	Water	02/09/22 10:47	02/10/22 17:00
92587081013	YGWA-17S	Water	02/09/22 10:20	02/10/22 17:00
92587081014	YGWA-18S	Water	02/09/22 12:24	02/10/22 17:00
92587081015	YGWA-18I	Water	02/09/22 14:31	02/10/22 17:00
92587081016	YGWA-20S	Water	02/09/22 16:19	02/10/22 17:00
92587081017	YGWA-21I	Water	02/09/22 17:40	02/10/22 17:00
92587081018	YGWA-5I	Water	02/10/22 17:27	02/11/22 16:45
92587081019	UP-DUP-3	Water	02/10/22 00:00	02/11/22 16:45
92587081020	YGWA-14S	Water	02/10/22 16:20	02/11/22 16:45
92587081021	UP-DUP-2	Water	02/10/22 00:00	02/11/22 16:45
92587081022	YGWA-30I	Water	02/10/22 09:20	02/11/22 16:45
92587081023	YGWA-4I	Water	02/11/22 10:40	02/11/22 16:45
92587081024	YGWA-5D	Water	02/10/22 17:46	02/11/22 16:45
92587081025	UP-EB-2	Water	02/10/22 11:40	02/11/22 16:45
92587081026	UP-FB-2	Water	02/10/22 17:13	02/11/22 16:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587081001	YGWA-39	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081002	YGWA-40	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081003	YGWA-47	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081004	GWA-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081005	UP-DUP-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081006	YGWA-1I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081007	YGWA-1D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081008	YGWA-2I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081009	YGWA-3I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081010	YGWA-3D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081011	UP-EB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081012	UP-FB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081013	YGWA-17S	EPA 9315	JC2	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587081014	YGWA-18S	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587081015	YGWA-18I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587081016	YGWA-20S	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587081017	YGWA-21I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587081018	YGWA-5I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587081019	UP-DUP-3	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587081020	YGWA-14S	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587081021	UP-DUP-2	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587081022	YGWA-30I	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587081023	YGWA-4I	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587081024	YGWA-5D	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587081025	UP-EB-2	EPA 9320	JSM	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587081026	UP-FB-2	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	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: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081001	YGWA-39					
EPA 9315	Radium-226	0.621 ± 0.193 (0.145) C:97% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.213 ± 0.292 (0.626) C:86% T:87%	pCi/L		03/04/22 12:08	
Total Radium Calculation	Total Radium	0.834 ± 0.485 (0.771)	pCi/L		03/14/22 21:59	
92587081002	YGWA-40					
EPA 9315	Radium-226	0.390 ± 0.164 (0.197) C:87% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.144 ± 0.283 (0.623) C:84% T:90%	pCi/L		03/04/22 12:08	
Total Radium Calculation	Total Radium	0.534 ± 0.447 (0.820)	pCi/L		03/14/22 21:59	
92587081003	YGWA-47					
EPA 9315	Radium-226	0.241 ± 0.130 (0.183) C:91% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.159 ± 0.245 (0.528) C:84% T:90%	pCi/L		03/04/22 12:08	
Total Radium Calculation	Total Radium	0.400 ± 0.375 (0.711)	pCi/L		03/14/22 21:59	
92587081004	GWA-2					
EPA 9315	Radium-226	0.151 ± 0.105 (0.166) C:89% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.311 ± 0.281 (0.568) C:87% T:90%	pCi/L		03/04/22 12:08	
Total Radium Calculation	Total Radium	0.462 ± 0.386 (0.734)	pCi/L		03/14/22 21:59	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081005	UP-DUP-1					
EPA 9315	Radium-226	0.138 ± 0.115 (0.208)	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	C:75% T:NA 0.617 ± 0.346 (0.625)	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	C:86% T:88% 0.755 ± 0.461 (0.833)	pCi/L		03/14/22 21:59	
92587081006	YGWA-1I					
EPA 9315	Radium-226	0.211 ± 0.123 (0.190)	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	C:95% T:NA 0.211 ± 0.575 (1.28)	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	C:78% T:88% 0.422 ± 0.698 (1.47)	pCi/L		03/14/22 21:59	
92587081007	YGWA-1D					
EPA 9315	Radium-226	0.294 ± 0.135 (0.159)	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	C:93% T:NA 0.893 ± 0.529 (0.973)	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	C:78% T:89% 1.19 ± 0.664 (1.13)	pCi/L		03/14/22 21:59	
92587081008	YGWA-2I					
EPA 9315	Radium-226	0.205 ± 0.114 (0.150)	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	C:91% T:NA 0.689 ± 0.535 (1.05)	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	C:77% T:90% 0.894 ± 0.649 (1.20)	pCi/L		03/14/22 21:59	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081009	YGWA-3I					
EPA 9315	Radium-226	0.817 ± 0.240 (0.170)	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	C:83% T:NA 1.09 ± 0.451 (0.731)	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	C:81% T:89% 1.91 ± 0.691 (0.901)	pCi/L		03/14/22 21:59	
92587081010	YGWA-3D					
EPA 9315	Radium-226	1.41 ± 0.334 (0.200)	pCi/L		03/14/22 08:18	
EPA 9320	Radium-228	C:96% T:NA 1.87 ± 0.560 (0.704)	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	C:82% T:90% 3.28 ± 0.894 (0.904)	pCi/L		03/14/22 21:59	
92587081011	UP-EB-1					
EPA 9315	Radium-226	0.0487 ± 0.0838 (0.189)	pCi/L		03/14/22 08:18	
EPA 9320	Radium-228	C:97% T:NA 0.387 ± 0.291 (0.568)	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	C:83% T:97% 0.436 ± 0.375 (0.757)	pCi/L		03/14/22 21:59	
92587081012	UP-FB-1					
EPA 9315	Radium-226	0.0259 ± 0.0622 (0.149)	pCi/L		03/14/22 08:18	
EPA 9320	Radium-228	C:95% T:NA 0.546 ± 0.343 (0.645)	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	C:81% T:93% 0.572 ± 0.405 (0.794)	pCi/L		03/14/22 21:59	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081013	YGWA-17S					
EPA 9315	Radium-226	0.131 ± 0.0871 (0.122)	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	C:95% T:NA 0.00169 ± 0.325 (0.756)	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	C:78% T:89% 0.133 ± 0.412 (0.878)	pCi/L		03/14/22 21:59	
92587081014	YGWA-18S					
EPA 9315	Radium-226	0.0618 ± 0.0753 (0.152)	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	C:93% T:NA -0.0652 ± 0.340 (0.796)	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	C:81% T:91% 0.0618 ± 0.415 (0.948)	pCi/L		03/14/22 21:59	
92587081015	YGWA-18I					
EPA 9315	Radium-226	0.107 ± 0.0873 (0.149)	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	C:94% T:NA 0.464 ± 0.334 (0.645)	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	C:76% T:92% 0.571 ± 0.421 (0.794)	pCi/L		03/14/22 21:59	
92587081016	YGWA-20S					
EPA 9315	Radium-226	0.0382 ± 0.0564 (0.120)	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	C:92% T:NA 0.466 ± 0.326 (0.625)	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	C:78% T:93% 0.504 ± 0.382 (0.745)	pCi/L		03/14/22 21:59	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081017	YGWA-21I					
EPA 9315	Radium-226	0.790 ± 0.237 (0.195) C:86% T:NA	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	1.15 ± 0.478 (0.782) C:81% T:88%	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	1.94 ± 0.715 (0.977)	pCi/L		03/14/22 21:59	
92587081018	YGWA-5I					
EPA 9315	Radium-226	0.0387 ± 0.0686 (0.155) C:92% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	0.336 ± 0.397 (0.841) C:85% T:89%	pCi/L		03/04/22 12:18	
Total Radium Calculation	Total Radium	0.375 ± 0.466 (0.996)	pCi/L		03/21/22 15:36	
92587081019	UP-DUP-3					
EPA 9315	Radium-226	0.183 ± 0.111 (0.169) C:95% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	-0.150 ± 0.507 (1.19) C:69% T:82%	pCi/L		03/04/22 12:18	
Total Radium Calculation	Total Radium	0.183 ± 0.618 (1.36)	pCi/L		03/21/22 15:36	
92587081020	YGWA-14S					
EPA 9315	Radium-226	-0.0197 ± 0.0632 (0.190) C:92% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	-0.199 ± 0.449 (1.06) C:75% T:89%	pCi/L		03/04/22 12:18	
Total Radium Calculation	Total Radium	0.000 ± 0.512 (1.25)	pCi/L		03/21/22 15:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081021	UP-DUP-2					
EPA 9315	Radium-226	0.0406 ± 0.0923 (0.219) C:63% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	-0.195 ± 0.313 (0.784) C:91% T:90%	pCi/L		03/04/22 18:26	
Total Radium Calculation	Total Radium	0.0406 ± 0.405 (1.00)	pCi/L		03/21/22 15:36	
92587081022	YGWA-301					
EPA 9315	Radium-226	0.0634 ± 0.0744 (0.148) C:89% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	0.205 ± 0.331 (0.718) C:68% T:87%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	0.268 ± 0.405 (0.866)	pCi/L		03/21/22 15:36	
92587081023	YGWA-41					
EPA 9315	Radium-226	0.501 ± 0.174 (0.154) C:90% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	0.495 ± 0.381 (0.744) C:69% T:88%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	0.996 ± 0.555 (0.898)	pCi/L		03/21/22 15:36	
92587081024	YGWA-5D					
EPA 9315	Radium-226	2.47 ± 0.487 (0.124) C:87% T:NA	pCi/L		03/18/22 10:23	
EPA 9320	Radium-228	0.856 ± 0.428 (0.737) C:69% T:93%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	3.33 ± 0.915 (0.861)	pCi/L		03/21/22 15:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081025	UP-EB-2					
EPA 9315	Radium-226	0.0353 ± 0.0661 (0.151) C:97% T:NA	pCi/L		03/22/22 09:52	
EPA 9320	Radium-228	0.133 ± 0.314 (0.699) C:75% T:90%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	0.168 ± 0.380 (0.850)	pCi/L		03/22/22 15:27	
92587081026	UP-FB-2					
EPA 9315	Radium-226	0.0543 ± 0.0745 (0.158) C:98% T:NA	pCi/L		03/22/22 09:52	
EPA 9320	Radium-228	0.148 ± 0.542 (1.23) C:72% T:89%	pCi/L		03/08/22 18:43	
Total Radium Calculation	Total Radium	0.202 ± 0.617 (1.39)	pCi/L		03/22/22 15:27	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-39 **Lab ID: 92587081001** Collected: 02/08/22 14:55 Received: 02/09/22 10:18 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	0.621 ± 0.193 (0.145) C:97% T:NA	pCi/L	03/14/22 08:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.213 ± 0.292 (0.626) C:86% T:87%	pCi/L	03/04/22 12:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.834 ± 0.485 (0.771)	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-40 **Lab ID: 92587081002** Collected: 02/08/22 13:22 Received: 02/09/22 10:18 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	0.390 ± 0.164 (0.197) C:87% T:NA	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.144 ± 0.283 (0.623) C:84% T:90%	pCi/L	03/04/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.534 ± 0.447 (0.820)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-47 Lab ID: 92587081003 Collected: 02/08/22 11:40 Received: 02/09/22 10:18 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.241 ± 0.130 (0.183) C:91% T:NA	pCi/L	03/14/22 08:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.159 ± 0.245 (0.528) C:84% T:90%	pCi/L	03/04/22 12:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.400 ± 0.375 (0.711)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: GWA-2 **Lab ID: 92587081004** Collected: 02/08/22 11:50 Received: 02/09/22 10:18 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	0.151 ± 0.105 (0.166) C:89% T:NA	pCi/L	03/14/22 08:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.311 ± 0.281 (0.568) C:87% T:90%	pCi/L	03/04/22 12:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.462 ± 0.386 (0.734)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: UP-DUP-1 Lab ID: 92587081005 Collected: 02/08/22 00:00 Received: 02/09/22 10:18 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.138 ± 0.115 (0.208) C:75% T:NA	pCi/L	03/14/22 08:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.617 ± 0.346 (0.625) C:86% T:88%	pCi/L	03/04/22 12:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.755 ± 0.461 (0.833)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-11 **Lab ID: 92587081006** Collected: 02/09/22 13:45 Received: 02/10/22 17:00 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	0.211 ± 0.123 (0.190) C:95% T:NA	pCi/L	03/14/22 08:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.211 ± 0.575 (1.28) C:78% T:88%	pCi/L	03/04/22 12:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.422 ± 0.698 (1.47)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-1D **Lab ID: 92587081007** Collected: 02/09/22 14:45 Received: 02/10/22 17:00 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	0.294 ± 0.135 (0.159) C:93% T:NA	pCi/L	03/14/22 08:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.893 ± 0.529 (0.973) C:78% T:89%	pCi/L	03/04/22 12:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.19 ± 0.664 (1.13)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-2I **Lab ID: 92587081008** Collected: 02/09/22 17:35 Received: 02/10/22 17:00 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	0.205 ± 0.114 (0.150) C:91% T:NA	pCi/L	03/14/22 08:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.689 ± 0.535 (1.05) C:77% T:90%	pCi/L	03/04/22 12:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.894 ± 0.649 (1.20)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-3I **Lab ID: 92587081009** Collected: 02/09/22 11:35 Received: 02/10/22 17:00 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	0.817 ± 0.240 (0.170) C:83% T:NA	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.09 ± 0.451 (0.731) C:81% T:89%	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.91 ± 0.691 (0.901)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-3D **Lab ID: 92587081010** Collected: 02/09/22 10:20 Received: 02/10/22 17:00 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	1.41 ± 0.334 (0.200) C:96% T:NA	pCi/L	03/14/22 08:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.87 ± 0.560 (0.704) C:82% T:90%	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.28 ± 0.894 (0.904)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-EB-1 **Lab ID: 92587081011** Collected: 02/09/22 13:06 Received: 02/10/22 17:00 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	0.0487 ± 0.0838 (0.189) C:97% T:NA	pCi/L	03/14/22 08:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.387 ± 0.291 (0.568) C:83% T:97%	pCi/L	03/04/22 12:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.436 ± 0.375 (0.757)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-FB-1 **Lab ID: 92587081012** Collected: 02/09/22 10:47 Received: 02/10/22 17:00 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	0.0259 ± 0.0622 (0.149) C:95% T:NA	pCi/L	03/14/22 08:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.546 ± 0.343 (0.645) C:81% T:93%	pCi/L	03/04/22 12:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.572 ± 0.405 (0.794)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-17S Lab ID: 92587081013 Collected: 02/09/22 10:20 Received: 02/10/22 17:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.131 ± 0.0871 (0.122) C:95% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.00169 ± 0.325 (0.756) C:78% T:89%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.133 ± 0.412 (0.878)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-18S **Lab ID: 92587081014** Collected: 02/09/22 12:24 Received: 02/10/22 17:00 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	0.0618 ± 0.0753 (0.152) C:93% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0652 ± 0.340 (0.796) C:81% T:91%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0618 ± 0.415 (0.948)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-181 **Lab ID: 92587081015** Collected: 02/09/22 14:31 Received: 02/10/22 17:00 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	0.107 ± 0.0873 (0.149) C:94% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.464 ± 0.334 (0.645) C:76% T:92%	pCi/L	03/04/22 12:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.571 ± 0.421 (0.794)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-20S **Lab ID: 92587081016** Collected: 02/09/22 16:19 Received: 02/10/22 17:00 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	0.0382 ± 0.0564 (0.120) C:92% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.466 ± 0.326 (0.625) C:78% T:93%	pCi/L	03/04/22 12:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.504 ± 0.382 (0.745)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-211 **Lab ID: 92587081017** Collected: 02/09/22 17:40 Received: 02/10/22 17:00 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	0.790 ± 0.237 (0.195) C:86% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.15 ± 0.478 (0.782) C:81% T:88%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.94 ± 0.715 (0.977)	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-5I **Lab ID: 92587081018** Collected: 02/10/22 17:27 Received: 02/11/22 16:45 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	0.0387 ± 0.0686 (0.155) C:92% T:NA	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.336 ± 0.397 (0.841) C:85% T:89%	pCi/L	03/04/22 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.375 ± 0.466 (0.996)	pCi/L	03/21/22 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-DUP-3 **Lab ID: 92587081019** Collected: 02/10/22 00:00 Received: 02/11/22 16:45 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	0.183 ± 0.111 (0.169) C:95% T:NA	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.150 ± 0.507 (1.19) C:69% T:82%	pCi/L	03/04/22 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.183 ± 0.618 (1.36)	pCi/L	03/21/22 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-14S Lab ID: 92587081020 Collected: 02/10/22 16:20 Received: 02/11/22 16:45 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0197 ± 0.0632 (0.190) C:92% T:NA	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.199 ± 0.449 (1.06) C:75% T:89%	pCi/L	03/04/22 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000 ± 0.512 (1.25)	pCi/L	03/21/22 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: UP-DUP-2 Lab ID: 92587081021 Collected: 02/10/22 00:00 Received: 02/11/22 16:45 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0406 ± 0.0923 (0.219) C:63% T:NA	pCi/L	03/18/22 09:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.195 ± 0.313 (0.784) C:91% T:90%	pCi/L	03/04/22 18:26	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0406 ± 0.405 (1.00)	pCi/L	03/21/22 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-30I Lab ID: 92587081022 Collected: 02/10/22 09:20 Received: 02/11/22 16:45 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0634 ± 0.0744 (0.148) C:89% T:NA	pCi/L	03/18/22 09:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.205 ± 0.331 (0.718) C:68% T:87%	pCi/L	03/08/22 15:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.268 ± 0.405 (0.866)	pCi/L	03/21/22 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-4I **Lab ID: 92587081023** Collected: 02/11/22 10:40 Received: 02/11/22 16:45 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	0.501 ± 0.174 (0.154) C:90% T:NA	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.495 ± 0.381 (0.744) C:69% T:88%	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.996 ± 0.555 (0.898)	pCi/L	03/21/22 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-5D **Lab ID: 92587081024** Collected: 02/10/22 17:46 Received: 02/11/22 16:45 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	2.47 ± 0.487 (0.124) C:87% T:NA	pCi/L	03/18/22 10:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.856 ± 0.428 (0.737) C:69% T:93%	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.33 ± 0.915 (0.861)	pCi/L	03/21/22 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: UP-EB-2 Lab ID: 92587081025 Collected: 02/10/22 11:40 Received: 02/11/22 16:45 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0353 ± 0.0661 (0.151) C:97% T:NA	pCi/L	03/22/22 09:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.133 ± 0.314 (0.699) C:75% T:90%	pCi/L	03/08/22 15:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.168 ± 0.380 (0.850)	pCi/L	03/22/22 15:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-FB-2 **Lab ID: 92587081026** Collected: 02/10/22 17:13 Received: 02/11/22 16:45 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	0.0543 ± 0.0745 (0.158) C:98% T:NA	pCi/L	03/22/22 09:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.148 ± 0.542 (1.23) C:72% T:89%	pCi/L	03/08/22 18:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.202 ± 0.617 (1.39)	pCi/L	03/22/22 15:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch: 486614

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081018, 92587081019, 92587081020, 92587081021, 92587081022, 92587081023, 92587081024

METHOD BLANK: 2353261

Matrix: Water

Associated Lab Samples: 92587081018, 92587081019, 92587081020, 92587081021, 92587081022, 92587081023, 92587081024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0547 ± 0.0680 (0.137) C:95% T:NA	pCi/L	03/18/22 09:04	

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: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch: 486659

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081021

METHOD BLANK: 2353495

Matrix: Water

Associated Lab Samples: 92587081021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.115 ± 0.191 (0.414) C:101% T:93%	pCi/L	03/04/22 12:08	

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: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch: 486616

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081025, 92587081026

METHOD BLANK: 2353263

Matrix: Water

Associated Lab Samples: 92587081025, 92587081026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00708 ± 0.0659 (0.175) C:97% T:NA	pCi/L	03/22/22 09:52	

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: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch:	485944	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007, 92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014, 92587081015, 92587081016, 92587081017

METHOD BLANK: 2349863 Matrix: Water

Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007, 92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014, 92587081015, 92587081016, 92587081017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0634 ± 0.0745 (0.148) C:93% T:NA	pCi/L	03/14/22 08:22	

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: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch:	486657	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007, 92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014, 92587081015, 92587081016, 92587081017, 92587081018, 92587081019, 92587081020

METHOD BLANK: 2353492 Matrix: Water

Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007, 92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014, 92587081015, 92587081016, 92587081017, 92587081018, 92587081019, 92587081020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.110 ± 0.223 (0.492) C:84% T:94%	pCi/L	03/04/22 12:08	

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: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

QC Batch: 486660	Analysis Method: EPA 9320
QC Batch Method: EPA 9320	Analysis Description: 9320 Radium 228
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081022, 92587081023, 92587081024, 92587081025, 92587081026

METHOD BLANK: 2353496 Matrix: Water
Associated Lab Samples: 92587081022, 92587081023, 92587081024, 92587081025, 92587081026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0198 ± 0.286 (0.668) C:70% T:93%	pCi/L	03/08/22 15:19	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

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: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587081001	YGWA-39	EPA 9315	485944		
92587081002	YGWA-40	EPA 9315	485944		
92587081003	YGWA-47	EPA 9315	485944		
92587081004	GWA-2	EPA 9315	485944		
92587081005	UP-DUP-1	EPA 9315	485944		
92587081006	YGWA-1I	EPA 9315	485944		
92587081007	YGWA-1D	EPA 9315	485944		
92587081008	YGWA-2I	EPA 9315	485944		
92587081009	YGWA-3I	EPA 9315	485944		
92587081010	YGWA-3D	EPA 9315	485944		
92587081011	UP-EB-1	EPA 9315	485944		
92587081012	UP-FB-1	EPA 9315	485944		
92587081013	YGWA-17S	EPA 9315	485944		
92587081014	YGWA-18S	EPA 9315	485944		
92587081015	YGWA-18I	EPA 9315	485944		
92587081016	YGWA-20S	EPA 9315	485944		
92587081017	YGWA-21I	EPA 9315	485944		
92587081018	YGWA-5I	EPA 9315	486614		
92587081019	UP-DUP-3	EPA 9315	486614		
92587081020	YGWA-14S	EPA 9315	486614		
92587081021	UP-DUP-2	EPA 9315	486614		
92587081022	YGWA-30I	EPA 9315	486614		
92587081023	YGWA-4I	EPA 9315	486614		
92587081024	YGWA-5D	EPA 9315	486614		
92587081025	UP-EB-2	EPA 9315	486616		
92587081026	UP-FB-2	EPA 9315	486616		
92587081001	YGWA-39	EPA 9320	486657		
92587081002	YGWA-40	EPA 9320	486657		
92587081003	YGWA-47	EPA 9320	486657		
92587081004	GWA-2	EPA 9320	486657		
92587081005	UP-DUP-1	EPA 9320	486657		
92587081006	YGWA-1I	EPA 9320	486657		
92587081007	YGWA-1D	EPA 9320	486657		
92587081008	YGWA-2I	EPA 9320	486657		
92587081009	YGWA-3I	EPA 9320	486657		
92587081010	YGWA-3D	EPA 9320	486657		
92587081011	UP-EB-1	EPA 9320	486657		
92587081012	UP-FB-1	EPA 9320	486657		
92587081013	YGWA-17S	EPA 9320	486657		
92587081014	YGWA-18S	EPA 9320	486657		
92587081015	YGWA-18I	EPA 9320	486657		
92587081016	YGWA-20S	EPA 9320	486657		
92587081017	YGWA-21I	EPA 9320	486657		
92587081018	YGWA-5I	EPA 9320	486657		
92587081019	UP-DUP-3	EPA 9320	486657		
92587081020	YGWA-14S	EPA 9320	486657		
92587081021	UP-DUP-2	EPA 9320	486659		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587081022	YGWA-30I	EPA 9320	486660		
92587081023	YGWA-4I	EPA 9320	486660		
92587081024	YGWA-5D	EPA 9320	486660		
92587081025	UP-EB-2	EPA 9320	486660		
92587081026	UP-FB-2	EPA 9320	486660		
92587081001	YGWA-39	Total Radium Calculation	490241		
92587081002	YGWA-40	Total Radium Calculation	490241		
92587081003	YGWA-47	Total Radium Calculation	490241		
92587081004	GWA-2	Total Radium Calculation	490241		
92587081005	UP-DUP-1	Total Radium Calculation	490241		
92587081006	YGWA-11	Total Radium Calculation	490241		
92587081007	YGWA-1D	Total Radium Calculation	490241		
92587081008	YGWA-2I	Total Radium Calculation	490241		
92587081009	YGWA-3I	Total Radium Calculation	490241		
92587081010	YGWA-3D	Total Radium Calculation	490241		
92587081011	UP-EB-1	Total Radium Calculation	490241		
92587081012	UP-FB-1	Total Radium Calculation	490241		
92587081013	YGWA-17S	Total Radium Calculation	490241		
92587081014	YGWA-18S	Total Radium Calculation	490241		
92587081015	YGWA-18I	Total Radium Calculation	490241		
92587081016	YGWA-20S	Total Radium Calculation	490241		
92587081017	YGWA-21I	Total Radium Calculation	490241		
92587081018	YGWA-5I	Total Radium Calculation	491834		
92587081019	UP-DUP-3	Total Radium Calculation	491834		
92587081020	YGWA-14S	Total Radium Calculation	491834		
92587081021	UP-DUP-2	Total Radium Calculation	491834		
92587081022	YGWA-30I	Total Radium Calculation	491834		
92587081023	YGWA-4I	Total Radium Calculation	491834		
92587081024	YGWA-5D	Total Radium Calculation	491834		
92587081025	UP-EB-2	Total Radium Calculation	492151		
92587081026	UP-FB-2	Total Radium Calculation	492151		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #: **WO# : 92587091**



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/9/22*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: *083* Type of Ice: Wet Blue None

Cooler Temp: *2.3* Correction Factor: Add/Subtract (°C) *±0.2*

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

Cooler Temp Corrected (°C): *2.5*

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 -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
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 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: _____

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

Section C Invoice Information: Attention: Southern Co. Company Name: Arcadis

Requested Due Date: Project Name: Plant Yates Pooled Upgradient Project Number: Purchase Order #: Pace Order: Pace Project Manager: Nicole D'Onofrio Pace Probe #: 10840

Regulatory Agency: State / Location: Georgia

Page: 1 of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -, /) Sample IDs must be unique	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	Preservatives							Analyses Test	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)	pH				
				START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)
1	YQWA-39	Drinking Water	DW	2/12/22	2/12/22																
2	YQWA-40	Water	WT	2/12/22	2/12/22																
3	YQWA-41	Water	WT																		
4	YQWA-42	Water	WT																		
5	YQWA-43	Water	WT																		
6	YQWA-44	Water	WT																		
7	YQWA-45	Water	WT																		
8	YQWA-46	Water	WT																		
9	YQWA-47	Water	WT																		
10	YQWA-48	Water	WT																		
11	YQWA-49	Water	WT																		
12	YQWA-50	Water	WT																		

ADDITIONAL COMMENTS: Arcadis

RELINQUISHED BY / AFFILIATION: Arcadis DATE: 2/19/22

ACCEPTED BY / AFFILIATION: Arcadis DATE: 2/19/22

SAMPLE NAME AND SIGNATURE: Arcadis

FRONT Name of SAMPLER: Arcadis

SIGNATURE of SAMPLER: Arcadis

DATE: 2/19/22

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
Requested Client Information:
 Company: GA Power
 Address: Atlanta, GA

Section B
Requested Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Purchase Order #: Plant Values Pooled Upgradient
 Project Name: Project Number:
 Requested Date Date: Fax:

Section C
Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Plant Order:
 Plant Project Manager: Nicole DyChao
 Plant Profile #: 10840
 Regulatory Agency:
 State/Location: Georgia

Page: _____ of _____

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, -,) Sample IDs must be unique</small>	MATRIX <small>Dredged Material Water Waste Sludge Sediment Other Tissue</small>	CODE <small>DN WT P SL AR OT TS</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyses Test	Residual Chlorine (Y/N)	SAMPLER CONDITIONS
				DATE	TIME						
1	1TGWA-2H						Unpreserved	App III/IV Metals			
2	1GWA-2						H2SO4	CI, F, SO4			
3	UP-DUP-1						HNO3	TDS (2540C)			
4	1GWA-2H						HCl	RAD 8316/8320			
5	1GWA-2H						NaOH	App I / II (gypsum only)			
6	UP-DUP-3						Na2S2O3				
7	1GWA-2H						Methanol				
8	1GWA-2H						Other				
9	1GWA-2H										
10	1GWA-2H										
11	1GWA-2H										
12	1GWA-2H										

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Wally Kern Arcadis	2/19/22	0840	Wally Kern	2/19/22	0840
Arcadis	2/19/22	08	Wally Kern	2/19/22	0840
				2/19/22	0840

SAMPLER NAME AND SIGNATURE		DATE	TIME
PRINT Name of SAMPLER:	Wally Kern	2/19/22	0840
SIGNATURE of SAMPLER:	[Signature]		

TEMP in C	Received on ice (Y/N)	Cooler Sealed (Y/N)	Samples Intact (Y/N)

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project # **WO# : 92587091**

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

PM: NMG Due Date: 02/23/22
 CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/10/22
EM

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 3.4 Correction Factor: Add/Subtract (°C) 401

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

Cooler Temp Corrected (°C): 3.5

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 -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
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 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: _____

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

Section C Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Pocos Quete:
 Pocos Project Manager: Nicole D'Orico
 Pocos Profile #: 10940

Requested Due Date: _____

Plant Yates Pooled Upgradient

Requested Analysis Filtered (Y/N) _____

State / Location: Georgia

Regulatory Agency: _____

Page : _____ of _____

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	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	PH
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
1	YGWA-09	WT G	G	2/10/22	1435		3											
2	YGWA-10	WT G	G	2/10/22	1435		3											
3	YGWA-11	WT G	G	2/10/22	1435		3											
4	YGWA-1D	WT G	G	2/10/22	1435		3											
5	YGWA-2I	WT G	G	2/10/22	1435		3											
6	YGWA-3I	WT G	G	2/10/22	1435		3											
7	YGWA-3D	WT G	G	2/10/22	1435		3											
8	YGWA-4YS	WT G	G	2/10/22	1435		3											
9	YBP-01PZ	WT G	G	2/10/22	1435		3											
10	YGWA-3M	WT G	G	2/10/22	1435		3											
11	YBP-EB-1	WT G	G	2/10/22	1435		3											
12	YBP-FB-1	WT G	G	2/10/22	1435		3											

App No Sula 300.0 (Cl, F, Sulfate)
 App III Metals: Secon 6020B, Ca 6010D;
 App VI Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Zinc (Zn), Mercury (Hg)

Relinquished by / Affiliation: _____ Date: _____ Time: _____

Accepted by / Affiliation: _____ Date: _____ Time: _____

Sampler Name and Signature: _____
 Print Name of Sampler: _____
 Signature of Sampler: _____

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
Request Client Information:

Company: GA Power
Address: Atlanta, GA
Phone: _____
Requested Due Date: _____

Section B
Requested Project Information:

Request To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #: _____
Project Name: Plant Yates Pooled Upgrakent
Project Number: _____

Section C
Invoice Information:

Attention: Southern Co.
Address: _____
Page Order: _____
Page Project Manager: Nicole D'Olivo
Page Profile #: 10940

Page: _____ of _____

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED			SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives	Analysis Test	Requested Analyte Filtered (Y/N)	Residual Chlorine (Y/N)
					START DATE	START TIME	END TIME							
1	KCWA-09	WT G	WT G	G				5	2		App III/IV Metals Cl, F, SO4 TDS (2540C) RAD 9316/9320			
2	KCWA-10	WT G	WT G	G				5	3		App I / II (gypsum only)			
3	KCWA-11	WT G	WT G	G				5	2					
4	KCWA-1B	WT G	WT G	G				5	2					
5	KCWA-2	WT G	WT G	G				5	2					
6	KCWA-3	WT G	WT G	G				5	2					
7	KCWA-4	WT G	WT G	G				5	2					
8	KCWA-5	WT G	WT G	G				5	2					
9	KCWA-6	WT G	WT G	G				5	2					
10	KCWA-9A	WT G	WT G	G				5	2					
11	UP-FB-1	WT G	WT G	G	2/9/21	1306		5	2					
12	UP-FB-1	WT G	WT G	G	2/9/21	1047		5	2					

ADDITIONAL COMMENTS			REQUISITED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS			
App III Metals: Boron	App III Metals: Zn, Ag, Ni, V	App IV Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl), Vanadium (V)	DATE	TIME	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
App III Metals: Boron 60208, Ca 6010D:	App III Metals: Zn, Ag, Ni, V	App IV Metals 60208: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl), Vanadium (V)	2/10/22	1435	2/10/22	1435				
			2/10/22	1700						

SAMPLER NAME AND SIGNATURE: Jessica Ware
PRINT NAME OF SAMPLER: Jessica Ware
SIGNATURE OF SAMPLER: [Signature]
DATE SIGNED: 2/9/22

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: _____
 Requested Due Date: _____

Section B Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Project Name: Plant Yates Pooled Upgradient
 Project Number: _____

Section C Invoice Information:
 Attention: Southern Co.
 Company Name: _____
 Address: _____
 POC: Project Manager
 POC Name: Nicole D'Olivo
 POC Phone #: 10840

Section D Regulatory Agency
 State / Location: Georgia

Page : _____ of _____

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / - , -) Sample IDs must be unique	COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSES TEST				Residual Chlorine (Y/N)	pH	
		DATE	TIME	DATE	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N					
															App III/IV Metals	Cl, F, SO4	TDS (2540C)			RAD 9315/9320
1	YGWA-47												X	X	X	X	X			
2	YGWA-2												X	X	X	X	X			
3	UGDUP-1												X	X	X	X	X			
4	YGWA-41												X	X	X	X	X			
5	YGWA-51												X	X	X	X	X			
6	UGDUP-3												X	X	X	X	X			
7	YGWA-6D												X	X	X	X	X			
8	YGWA-17S												X	X	X	X	X			
9	UGWA-18S												X	X	X	X	X			
10	YGWA-181												X	X	X	X	X			
11	YGWA-20S												X	X	X	X	X			
12	YGWA-211												X	X	X	X	X			

App III Metals: Boron (B), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)
 App IV Metals: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn)

SAMPLER NAME AND SIGNATURE
 PRINT NAME OF SAMPLER: _____
 SIGNATURE OF SAMPLER: _____
 DATE SIGNED: _____

RECEIVED BY / AFFILIATION
 PRINT NAME OF RECEIVER: _____
 SIGNATURE OF RECEIVER: _____
 DATE SIGNED: _____

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



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
 Upon Receipt

Client Name: GA Power

Project #: **WO# : 92587091**

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Due Date: **02/23/22**
 CLIENT: **GA-GA Power**

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: JPE 2/11/22

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 4.1 Correction Factor: +1.1
 Add/Subtract (°C)

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

Cooler Temp Corrected (°C): 4.2

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: _____

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:
 Phone:
 Requested Due Date:

Section B Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Purchase Order #: Plant Yates Pooled Upgradent
 Project Name: Plant Yates Pooled Upgradent
 Project Number:
 Requested Analysis Period (Y/N):

Section C Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 PACE Quote:
 PACE Project Manager: Nicole D'Orso
 PACE Profile #: 10840
 Regulatory Agency: State / Location: Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample IDs must be unique	MATRIX Drinking Water Waste Water Industrial Water Surface Water Leachate Other Tissue	CODE CW WW IWS SL WR AR OT	COLLECTED			SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Analyses Test	Y/N	Residual Chlorine (Y/N)	RELEASING BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
				START DATE	START TIME	END DATE							END TIME	DATE	TIME	DATE	TIME	TEMP in C
1	YGWA-17																	
2	GWA-2																	
3	UP-DUP-1																	
4	XGWA-4I																	
5	YGWA-SI																	
6	UP-DUP-3																	
7	YGWA-5D																	
8	YGWA-476																	
9	YGWA-48S																	
10	YGWA-18I																	
11	YGWA-20S																	
12	YGWA-E4I																	

ADDITIONAL COMMENTS:
 Arcadis Yates Pooled Upgradent
 2/11/22 1445
 2/11/22 1445
 2/11/22 1445
 2/11/22 1445

SAAMPLER NAME AND SIGNATURE:
 NAME: Black Clark
 SIGNATURE: [Handwritten Signature]
 DATE SIGNED: 2/11/22

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
 Requested Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Project Name: Plant Yates Pooled Upgradient
 Project Number:

Section C
 Invoice Information:
 Address: Southern Co.
 Company Name:
 State / Location: Georgia

ITEM #	SAMPLE ID <i>(A-Z, 0-9, -)</i> Sample IDs must be unique	MATRIX CODE <i>(see valid codes to left)</i>	SAMPLE TYPE <i>(G-GRAB C-COMP)</i>	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSES TEST					DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME							
				START	END						Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)									RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)				
1	YGWA-39		G																																		
2	YGWA-40		G																																		
3	YGWA-11		G																																		
4	YGWA-1D		G																																		
5	YGWA-2I		G																																		
6	YGWA-3I		G																																		
7	YGWA-3D		G																																		
8	YGWA-14S		G																																		
9	UP-DUP-2		G																																		
10	YGWA-30I		G																																		
11	UP-EB-1		G																																		
12	UP-FB-1		G																																		
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		DATE		TIME		DATE		TIME		DATE		TIME		DATE		TIME		DATE		TIME		DATE		TIME	
Anions Suite 300.0 (Cl, F, Sulfate)		Nicol Carter		10/11/02		11:45		Nicol Carter		10/11/02		11:45																									
App III Metals: Barium 60228, Ca 60100, App III Metals: Zn, Ag, Ni, V		Nicol Carter		10/11/02		11:45		Nicol Carter		10/11/02		11:45																									
App IV: Metals 60208: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), 7040k: Mercury (Hg)		Nicol Carter		10/11/02		11:45		Nicol Carter		10/11/02		11:45																									

SAMPLER NAME AND SIGNATURE: *Nicol Carter*
 PRINT Name of SAMPLER: *Nicol Carter*
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Requested: *10/11/02*
 TEMP in C: _____
 Received on (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
Phone:	
Requested Due Date:	

Section B

Required Project Information:

Request To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Vales Pooled Upgradient
Project Number:	

Section C

Invoice Information:

Advertiser:	Southern Co.
Company Name:	
Address:	
Person/Project Manager:	Nicole D'Orso
Person/Project #:	10840

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, -) Sample IDs must be unique</small>	MATRIX <small>Drinking Water Water Waste Water Product Sewage CI Wine Air Other Tissue</small>	CODE <small>DW WT WW P SL OL WP AR OT TS</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS <small>Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other</small>	Preservatives		Analysis Test	Y/N	Requester Assays/Tests Requested (Y/N)	Residual Chlorine (Y/N)	PH		
						START DATE	START TIME	END DATE	END TIME			H2O2	Other						App III/IV Metals	Cl, F, SO4
1	YGWA-47																			
2	GWMA-2																			
3	UP-DUP-1																			
4	YGWA-4I																			
5	YGWA-5I																			
6	UP-DUP-3																			
7	YGWA-5D																			
8	YGWA-17S																			
9	UGWA-18S																			
10	YGWA-18I																			
11	YGWA-20S																			
12	YGWA-21I																			

RELINQUISHED BY / AFFILIATION <i>Mhadi Carter</i>				DATE <i>02-11-15</i>				ACCEPTED BY / AFFILIATION <i>Watts Brown</i>				DATE <i>11/22/15</i>			
SAMPLER NAME AND SIGNATURE				SIGNATURE OF SAMPLER: <i>Mhadi Carter</i>				DATE SIGNED <i>2/10/15</i>				TEMP in C			
PRINT Name of SAMPLER:				SIGNATURE OF SAMPLER:				DATE SIGNED:				Received on (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 Requested Client Information: Company: GA Power Address: Atlanta, GA

Section B Requested Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts

Section C Invoice Information: Advertiser: Southern Co. Company Name: Address: Pace Project Manager: Nicole DiIorio Pace Profile #: 10840

Requested Analyte Filtered (Y/N)

Requester Agency: State / Location: Georgia

Requested Due Date: Project Number:

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Y/N	Residual Chlorine (Y/N)	pH1	pH2				
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol						Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)
1	UP-EB-2	WT G	11/10			5									X	X	X	X				
2	UP-FB-2	WT G				5									X	X	X	X				
3						2																
4						3																
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS: App III Metals: Zn, Ag, Ni, V

App IV Metals: As, Sb, Se, Bi, Ba, Cd, Cr, Co, Cu, Pb, Mn, Ni, U, Mo, Se

RELINQUISHED BY / AFFILIATION: *Nicole DiIorio* DATE: *11/10/05*

ACCEPTED BY / AFFILIATION: *State of Georgia* DATE: *11/10/05*

SAMPLER NAME AND SIGNATURE: *Nicole DiIorio*

PRINT Name of SAMPLER: *Nicole DiIorio*

SIGNATURE of SAMPLER: *Nicole DiIorio*

DATE Signed: *11/10/05*

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.

Page: 4 of 4

Section A Required Client Information: Company: GA Power Address: Allianta, GA		Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts	
Email To: Phone: Requested Date Date:		Purchase Order #: Project Name: Plant Yates Pooled Upgradient Project Number:	
Address: Attention: Southern Co. Company Name:		POC Name: POC Title: Nicole D'Orso POC Phone #: 10840	
Address: Attention: Plant Yates Pooled Upgradient Company Name:		State/Location: Georgia	

ITEM #	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSES TEST	Y/N	DATE	TIME	DATE	TIME	SAMPLER NAME AND SIGNATURE	DATE SIGNED
							Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol								
1	TR-FB-2					5															
2	UP-FB-2		2/24/12			5															
3						2															
4						2															
5						3															
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Section C Invoice Information: Attention: Southern Co. Company Name:		POC Name: POC Title: Nicole D'Orso POC Phone #: 10840	
Address: Attention: Plant Yates Pooled Upgradient Company Name:		State/Location: Georgia	

Relinquished By/Affiliation: Name: <i>Michael Carson</i> Title: <i>Acadics</i> Date: <i>2/11/12</i> Time: <i>1445</i>		Accepted By/Affiliation: Name: <i>Michael Carson</i> Title: <i>Acadics</i> Date: <i>2/11/12</i> Time: <i>1445</i>	
---	--	---	--

Sampler Name and Signature: Name: <i>Michael Carson</i> Signature: <i>[Signature]</i> Date Signed: <i>2/11/12</i>	
--	--

TEMP in C	
Received	
Office (Y/N)	
Custody Sealed Cooler (Y/N)	
Samples Intact (Y/N)	

Quality Control Sample Performance Assessment



Test: Ra-226
 Analyst: JC2
 Date: 2/27/2022
 Worklist: 65255
 Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2349863
MB Concentration:	0.063
MB Counting Uncertainty:	0.074
MB MDC:	0.148
MB Numerical Performance Indicator:	1.68
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	LCSD65255	LCSD65255
Count Date:	3/14/2022			
Spike I.D.:	19-033		19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.029		24.029	
Volume Used (mL):	0.10		0.10	
Aliquot Volume (L, g, F):	0.508		0.500	
Target Conc. (pCi/L, g, F):	4.727		4.804	
Uncertainty (Calculated):	0.057		0.058	
Result (pCi/L, g, F):	4.451		4.451	
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	-1.22		1.71	
Numerical Performance Indicator:	94.16%		108.86%	
Percent Recovery:	N/A		N/A	
Status vs Numerical Indicator:	Pass		Pass	
Status vs Recovery:	Pass		Pass	
Upper % Recovery Limits:	125%		125%	
Lower % Recovery Limits:	75%		75%	

Duplicate Sample Assessment		Sample I.D.:	LCSD65255	92587081001
Duplicate Sample I.D.:	LCSD65255	92587081001		
Sample Result (pCi/L, g, F):	4.451	0.621		
Sample Result Counting Uncertainty (pCi/L, g, F):	0.439	0.171		
Sample Duplicate Result (pCi/L, g, F):	5.230	0.589		
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.486	0.174		
Are sample and/or duplicate results below RL?	NO	See Below #		
Duplicate Numerical Performance Indicator:	-2.332	0.257		
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	14.47%	5.30%		
Duplicate Status vs Numerical Indicator:	Pass	N/A		
Duplicate Status vs RPD:	Pass	Pass		
% RPD Limit:	25%	25%		

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

See Matrix Spike

Van 3/14/22

Quality Control Sample Performance Assessment



Test: Ra-226
 Analyst: JJC2
 Date: 2/27/2022
 Worklist: 65254
 Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2349823
MB Concentration:	0.023
MB Counting Uncertainty:	0.071
MB MDC:	0.175
MB Numerical Performance Indicator:	0.65
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:	3/11/2022	LCSD65254	92587078001
Spike I.D.:	19-033	LCSD65254	92587078001DUP
Decay Corrected Spike Concentration (pCi/mL):	24.029		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.506		
Target Conc. (pCi/L, g, F):	4.753		
Uncertainty (Calculated):	0.057		
Result (pCi/L, g, F):	5.401		
LCSD Counting Uncertainty (pCi/L, g, F):	2.54		
Numerical Performance Indicator:	113.63%		
Percent Recovery:	N/A		
Status vs Numerical Indicator:	Pass		
Status vs Recovery:	125%		
Upper % Recovery Limits:	125%		
Lower % Recovery Limits:	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):		
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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Counting Uncertainty (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:		

Duplicate Sample Assessment		Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	LCSD65254	Sample I.D.:	MS/MSD 1
Duplicate Sample I.D.:	92587078001	Sample MS I.D.:	MS/MSD 2
Sample Result (pCi/L, g, F):	5.401	Sample MSD I.D.:	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.497	Sample Matrix Spike Result:	
Sample Duplicate Result (pCi/L, g, F):	4.767	Sample Matrix Spike Duplicate Result:	
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.465	Duplicate Numerical Performance Indicator:	
Are sample and/or duplicate results below RL?	NO	Duplicate Percent Recovery (MS/MSD Duplicate RPD):	
Duplicate Numerical Performance Indicator:	1.824	Duplicate Status vs Numerical Indicator:	
(Based on the LCSD Percent Recoveries) Duplicate RPD:	12.87%	Duplicate Status vs RPD:	
Duplicate Status vs Numerical Indicator:	Pass	% RPD Limit:	
Duplicate Status vs RPD:	25%		

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

Batch must be stripped due to unacceptable precision
 N/A
 WAM 3/14/22

WAM 3/14/22

WAM 3/14/22

August and September 2022

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92623533 and 92623534

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #47079R

Review Level: Tier II

Project: 30113037.3A

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92623533 and 92623534 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
YGWC-26S	92623533001 92623534001	Water	8/31/2022		X	X	X
YGWC-26I	92623533002 92623534002	Water	8/31/2022		X	X	X
AP-2 EB-1	92623533003 92623534003	Water	8/31/2022		X	X	X
AP-2 FB-1	92623533004 92623534004	Water	8/31/2022		X	X	X
YGWC-27S	92623533005 92623534005	Water	9/1/2022		X	X	X
YGWC-27I	92623533006 92623534006	Water	9/1/2022		X	X	X
YGWC-28S	92623533007 92623534007	Water	9/1/2022		X	X	X
YGWC-28I	92623533008 92623534008	Water	9/1/2022		X	X	X
AP-2-DUP-1	92623533009 92623534009	Water	9/1/2022	YGWC-28I	X	X	X
YGWC-29I	92623533010 92623534010	Water	9/1/2022		X	X	X
AP-2-EB-2	92623533011 92623534011	Water	9/1/2022		X	X	X
AP-2-FB-2	92623533012 92623534012	Water	9/1/2022		X	X	X

Data Review Report

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.
4. pH analysis performed as a field measurement.

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) SM4500-H+ B and 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.

Boron was detected in the associated equipment blank AP-2 EB-1; however, the associated sample results were greater than the BAL. No qualification of the sample results was required.

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 YGWC-26S in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWC-28I in association with SW-846 7470A analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D 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. 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
YGWC-28I / AP-2-DUP-1	Calcium	26.3	26.3	0.0%
	Barium	0.068	0.065	4.5%
	Boron	1.8	1.7	5.7%
	Cadmium	0.00017 J	0.00011 J	AC
	Lithium	0.0066 J	0.0063 J	
	Molybdenum	0.0010 J	0.0011 J	

Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-DUP-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	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
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
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
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.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

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.

MS/MSD analysis was not performed using a sample from this SDG in association with anions 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.

The laboratory duplicate analysis performed using samples YGWC-26S and YGWC-29I in association with TDS analysis exhibited an RPD or difference in the results within the control limit.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with anions 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
YGWC-28I / AP-2-DUP-1	TDS	186	170	9.0%
	Chloride	10.4	10.3	1.0%
	Fluoride	0.11	0.11	AC
	Sulfate	7.6	7.5	1.3%

Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-DUP-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: SM4500-H+ B, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
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 (± 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:

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = 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-228, Radium-226, and total Radium were detected in the QA blanks, however, the activities were measured as less than the uncertainty and MDC or between the uncertainty and MDC as described above. Hence, the blank results are considered non-detect and no qualification of the results was required.

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 ± 3 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.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

u²(x), u²(x₀), u²(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 ± 3 sigma. Warning limits have been established as ± 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 ± 3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

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

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 ± 3 sigma. Warning limits have been established as ± 2 sigma.

The laboratory duplicate analysis performed on sample location YGWC-26S in association with SW-846 9320 analysis exhibited acceptable difference between the results.

The laboratory duplicate analysis performed on sample location YGWC-26I in association with SW-846 9315 analysis exhibited acceptable difference between the results.

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-28I / AP-2-DUP-1	Radium-226	0.310 ± 0.148	0.141 ± 0.121	AC
	Radium-228	0.292 ± 0.492	0.269 ± 0.503	
	Total Radium	0.602 ± 0.640	0.410 ± 0.624	

Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-28I and field duplicate sample AP-2-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

u²(x) = combined standard uncertainty of the result squared.

u²(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:

- YGWC-271 – Radium-228
- YGWC-26I, YGWC-28I, YGWC-29I – Radium-228 and total Radium
- YGWC-26S, AP-2 EB-1, AP-2 FB-1, YGWC-27S, YGWC-28S, AP-2-DUP-1, AP-2-EB-2, AP-2-FB-2 – 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	
Miscellaneous Instrumentation					
Tier II Validation					
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: 

DATE: November 8, 2022

PEER REVIEW: Dennis Capria

DATE: November 9, 2022

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

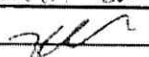
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : **1** of **7**

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.	
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:	
		Address:	
Email To: laucoker@southernco.com	Purchase Order #:	Pace Quote:	Regulatory Agency
Phone: 470.620.6176 Fax:	Project Name: Plant Yates AP-2	Pace Project Manager: Nicole D'Oleo	State / Location
Requested Due Date:	Project Number:	Pace Profile #: 10840	Georgia

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=COMB)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Y/N Analytes Test	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)														
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III / IV Metals		Cl. F. SO4	TDS (2540C)	RAD 9315/9320																
				DATE	TIME	DATE	TIME																															
1	YGWC-26S	WG	G	8/31/12	1045	-	-		5	2		3							X	X	X	X																
2	YGWC-26I	WG	G	8/31/12	1140	-	-		5	2		3							X	X	X	X															pH: 8.61	
3	YGWC-27S	WG	G	-	-	-	-		5	2		3							X	X	X	X															pH: 8.77	
4	YGWC-27I	WG	G	-	-	-	-		5	2		3							X	X	X	X															pH:	
5	YGWC-28S	WG	G	-	-	-	-		5	2		3							X	X	X	X															pH:	
6	YGWC-28I	WG	G	-	-	-	-		5	2		3							X	X	X	X															pH:	
7	AP-2-DUP-1	WG	G	-	-	-	-		5	2		3							X	X	X	X															pH:	
8	YGWC-29I	WG	G	-	-	-	-		5	2		3							X	X	X	X															pH:	
9	AP-2-EB-1	WG	G	8/31/12	1035	-	-		5	2		3							X	X	X	X															pH:	
10	AP-2-EB-2	WG	G	-	-	-	-		5	2		3							X	X	X	X																pH:
11	AP-2-FB-1	WG	G	8/31/12	1045	-	-		5	2		3							X	X	X	X																pH:
12	AP-2-FB-2	WG	G	-	-	-	-		5	2		3							X	X	X	X																pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>Wahid Corso - Arcadis</i>	9/1/12	0800	<i>2/4/12</i>	9/1/12	0800	
App III Metals: Boron 6020B, Ca 6010D	<i>John Williams / Pace</i>	9/1/12	0800	<i>Ryan Williams / Pace</i>	9/1/12	0905	
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)	<i>Ryan Williams / Pace</i>	9/1/12	1035				

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: <i>Wahid Corso</i>		DATE Signed: <i>9/1</i>	
SIGNATURE of SAMPLER: 		TEMP in C	
		Received on ice (Y/N)	Custody Sealed Cooler (Y/N)
		Samples Intact (Y/N)	

September 27, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Yates AP-2
Pace Project No.: 92623533

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between September 01, 2022 and September 02, 2022. 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power

Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates AP-2

Pace Project No.: 92623533

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Yates AP-2
Pace Project No.: 92623533

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623533001	YGWC-26S	Water	08/31/22 17:15	09/01/22 09:05
92623533002	YGWC-26I	Water	08/31/22 17:40	09/01/22 09:05
92623533003	AP-2 EB-1	Water	08/31/22 15:35	09/01/22 09:05
92623533004	AP-2 FB-1	Water	08/31/22 16:45	09/01/22 09:05
92623533005	YGWC-27S	Water	09/01/22 10:30	09/02/22 09:15
92623533006	YGWC-27I	Water	09/01/22 09:25	09/02/22 09:15
92623533007	YGWC-28S	Water	09/01/22 17:55	09/02/22 09:15
92623533008	YGWC-28I	Water	09/01/22 11:40	09/02/22 09:15
92623533009	AP-2-DUP-1	Water	09/01/22 00:00	09/02/22 09:15
92623533010	YGWC-29I	Water	09/01/22 14:40	09/02/22 09:15
92623533011	AP-2-EB-2	Water	09/01/22 18:00	09/02/22 09:15
92623533012	AP-2-FB-2	Water	09/01/22 14:50	09/02/22 09:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates AP-2
Pace Project No.: 92623533

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623533001	YGWC-26S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623533002	YGWC-26I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623533003	AP-2 EB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623533004	AP-2 FB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623533005	YGWC-27S	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623533006	YGWC-27I	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623533007	YGWC-28S	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623533008	YGWC-28I	EPA 6010D	DRB	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates AP-2
Pace Project No.: 92623533

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623533009	AP-2-DUP-1	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92623533010	YGWC-29I	SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92623533011	AP-2-EB-2	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623533012	AP-2-FB-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AP-2

Pace Project No.: 92623533

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92623533001	YGWC-26S					
	Performed by	Customer			09/23/22 09:55	
	pH	5.61	Std. Units		09/23/22 09:55	
EPA 6010D	Calcium	10.8	mg/L	1.0	09/15/22 22:02	
EPA 6020B	Barium	0.024	mg/L	0.0050	09/20/22 18:17	
EPA 6020B	Beryllium	0.000074J	mg/L	0.00050	09/20/22 18:17	
EPA 6020B	Boron	0.70	mg/L	0.040	09/20/22 18:17	
EPA 6020B	Cobalt	0.0026J	mg/L	0.0050	09/20/22 18:17	
SM 2540C-2015	Total Dissolved Solids	206	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	15.0	mg/L	1.0	09/08/22 23:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.076J	mg/L	0.10	09/08/22 23:36	
EPA 300.0 Rev 2.1 1993	Sulfate	90.2	mg/L	1.0	09/08/22 23:36	
92623533002	YGWC-26I					
	Performed by	Customer			09/23/22 09:55	
	pH	5.77	Std. Units		09/23/22 09:55	
EPA 6010D	Calcium	16.4	mg/L	1.0	09/15/22 22:07	
EPA 6020B	Antimony	0.0010J	mg/L	0.0030	09/20/22 18:40	
EPA 6020B	Barium	0.057	mg/L	0.0050	09/20/22 18:40	
EPA 6020B	Boron	0.64	mg/L	0.040	09/20/22 18:40	
EPA 6020B	Lithium	0.0074J	mg/L	0.030	09/20/22 18:40	
EPA 6020B	Selenium	0.0036J	mg/L	0.0050	09/20/22 18:40	
SM 2540C-2015	Total Dissolved Solids	228	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	16.6	mg/L	1.0	09/08/22 23:50	
EPA 300.0 Rev 2.1 1993	Fluoride	0.082J	mg/L	0.10	09/08/22 23:50	
EPA 300.0 Rev 2.1 1993	Sulfate	85.9	mg/L	1.0	09/08/22 23:50	
92623533003	AP-2 EB-1					
EPA 6020B	Boron	0.012J	mg/L	0.040	09/20/22 18:46	
92623533005	YGWC-27S					
	Performed by	Customer			09/23/22 09:55	
	pH	6.13	Std. Units		09/23/22 09:55	
EPA 6010D	Calcium	21.3	mg/L	1.0	09/16/22 15:45	
EPA 6020B	Barium	0.049	mg/L	0.0050	09/20/22 20:28	
EPA 6020B	Boron	1.0	mg/L	0.040	09/20/22 20:28	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	09/20/22 20:28	
EPA 7470A	Mercury	0.00019J	mg/L	0.00020	09/21/22 12:44	
SM 2540C-2015	Total Dissolved Solids	124	mg/L	25.0	09/06/22 14:53	
EPA 300.0 Rev 2.1 1993	Chloride	10.4	mg/L	1.0	09/08/22 20:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	09/08/22 20:52	
EPA 300.0 Rev 2.1 1993	Sulfate	13.5	mg/L	1.0	09/08/22 20:52	
92623533006	YGWC-27I					
	Performed by	Customer			09/23/22 09:55	
	pH	6.13	Std. Units		09/23/22 09:55	
EPA 6010D	Calcium	28.2	mg/L	1.0	09/16/22 15:50	
EPA 6020B	Barium	0.076	mg/L	0.0050	09/20/22 20:34	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	09/20/22 20:34	
EPA 6020B	Boron	2.3	mg/L	0.040	09/20/22 20:34	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AP-2

Pace Project No.: 92623533

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92623533006	YGWC-27I					
EPA 6020B	Cobalt	0.0096	mg/L	0.0050	09/20/22 20:34	
EPA 6020B	Lithium	0.0069J	mg/L	0.030	09/20/22 20:34	
EPA 6020B	Molybdenum	0.0016J	mg/L	0.010	09/20/22 20:34	
SM 2540C-2015	Total Dissolved Solids	193	mg/L	25.0	09/05/22 13:13	
EPA 300.0 Rev 2.1 1993	Chloride	13.4	mg/L	1.0	09/08/22 21:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	09/08/22 21:07	
EPA 300.0 Rev 2.1 1993	Sulfate	2.5	mg/L	1.0	09/08/22 21:07	
92623533007	YGWC-28S					
	Performed by	Customer			09/23/22 09:56	
	pH	6.59	Std. Units		09/23/22 09:56	
EPA 6010D	Calcium	33.1	mg/L	1.0	09/16/22 15:54	
EPA 6020B	Barium	0.20	mg/L	0.0050	09/20/22 20:40	
EPA 6020B	Boron	2.2	mg/L	0.040	09/20/22 20:40	
EPA 6020B	Cobalt	0.00071J	mg/L	0.0050	09/20/22 20:40	
SM 2540C-2015	Total Dissolved Solids	225	mg/L	25.0	09/05/22 13:13	
EPA 300.0 Rev 2.1 1993	Chloride	16.5	mg/L	1.0	09/08/22 21:22	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	09/08/22 21:22	
EPA 300.0 Rev 2.1 1993	Sulfate	13.4	mg/L	1.0	09/08/22 21:22	
92623533008	YGWC-28I					
	Performed by	Customer			09/23/22 09:56	
	pH	6.41	Std. Units		09/23/22 09:56	
EPA 6010D	Calcium	26.3	mg/L	1.0	09/16/22 15:59	
EPA 6020B	Barium	0.068	mg/L	0.0050	09/20/22 20:46	
EPA 6020B	Boron	1.8	mg/L	0.040	09/20/22 20:46	
EPA 6020B	Cadmium	0.00017J	mg/L	0.00050	09/20/22 20:46	
EPA 6020B	Lithium	0.0066J	mg/L	0.030	09/20/22 20:46	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	09/20/22 20:46	
SM 2540C-2015	Total Dissolved Solids	186	mg/L	25.0	09/06/22 14:53	
EPA 300.0 Rev 2.1 1993	Chloride	10.4	mg/L	1.0	09/09/22 09:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	09/09/22 09:02	
EPA 300.0 Rev 2.1 1993	Sulfate	7.6	mg/L	1.0	09/09/22 09:02	
92623533009	AP-2-DUP-1					
EPA 6010D	Calcium	26.3	mg/L	1.0	09/16/22 16:04	
EPA 6020B	Barium	0.065	mg/L	0.0050	09/20/22 20:52	
EPA 6020B	Boron	1.7	mg/L	0.040	09/20/22 20:52	
EPA 6020B	Cadmium	0.00011J	mg/L	0.00050	09/20/22 20:52	
EPA 6020B	Lithium	0.0063J	mg/L	0.030	09/20/22 20:52	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	09/20/22 20:52	
SM 2540C-2015	Total Dissolved Solids	170	mg/L	25.0	09/06/22 14:53	
EPA 300.0 Rev 2.1 1993	Chloride	10.3	mg/L	1.0	09/09/22 09:17	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	09/09/22 09:17	
EPA 300.0 Rev 2.1 1993	Sulfate	7.5	mg/L	1.0	09/09/22 09:17	
92623533010	YGWC-29I					
	Performed by	Customer			09/23/22 09:56	
	pH	6.05	Std. Units		09/23/22 09:56	

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SUMMARY OF DETECTION

Project: Plant Yates AP-2

Pace Project No.: 92623533

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623533010	YGWC-29I					
EPA 6010D	Calcium	11.0	mg/L	1.0	09/16/22 16:09	
EPA 6020B	Barium	0.057	mg/L	0.0050	09/20/22 21:27	
EPA 6020B	Boron	0.71	mg/L	0.040	09/20/22 21:27	
EPA 6020B	Cadmium	0.00020J	mg/L	0.00050	09/20/22 21:27	
EPA 6020B	Lithium	0.0051J	mg/L	0.030	09/20/22 21:27	
SM 2540C-2015	Total Dissolved Solids	128	mg/L	25.0	09/06/22 14:53	
EPA 300.0 Rev 2.1 1993	Chloride	8.1	mg/L	1.0	09/09/22 09:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.091J	mg/L	0.10	09/09/22 09:32	
EPA 300.0 Rev 2.1 1993	Sulfate	21.2	mg/L	1.0	09/09/22 09:32	

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ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: YGWC-26S		Lab ID: 92623533001		Collected: 08/31/22 17:15		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/23/22 09:55		
pH	5.61	Std. Units			1		09/23/22 09:55		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	10.8	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 22:02	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 18:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 18:17	7440-38-2	
Barium	0.024	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 18:17	7440-39-3	
Beryllium	0.000074J	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 18:17	7440-41-7	
Boron	0.70	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 18:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 18:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 18:17	7440-47-3	
Cobalt	0.0026J	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 18:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 18:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 18:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 18:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 18:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 18:17	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/20/22 16:00	09/21/22 12:28	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	206	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	15.0	mg/L	1.0	0.60	1		09/08/22 23:36	16887-00-6	
Fluoride	0.076J	mg/L	0.10	0.050	1		09/08/22 23:36	16984-48-8	
Sulfate	90.2	mg/L	1.0	0.50	1		09/08/22 23:36	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: YGWC-261		Lab ID: 92623533002		Collected: 08/31/22 17:40		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/23/22 09:55		
pH	5.77	Std. Units			1		09/23/22 09:55		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	16.4	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 22:07	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0010J	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 18:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 18:40	7440-38-2	
Barium	0.057	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 18:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 18:40	7440-41-7	
Boron	0.64	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 18:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 18:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 18:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 18:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 18:40	7439-92-1	
Lithium	0.0074J	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 18:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 18:40	7439-98-7	
Selenium	0.0036J	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 18:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 18:40	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/22 10:00	09/26/22 14:32	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	228	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	16.6	mg/L	1.0	0.60	1		09/08/22 23:50	16887-00-6	
Fluoride	0.082J	mg/L	0.10	0.050	1		09/08/22 23:50	16984-48-8	
Sulfate	85.9	mg/L	1.0	0.50	1		09/08/22 23:50	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: AP-2 EB-1		Lab ID: 92623533003		Collected: 08/31/22 15:35		Received: 09/01/22 09:05		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 22:12	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 18:46	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 18:46	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 18:46	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 18:46	7440-41-7		
Boron	0.012J	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 18:46	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 18:46	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 18:46	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 18:46	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 18:46	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 18:46	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 18:46	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 18:46	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 18:46	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/22 10:00	09/26/22 14:35	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/05/22 13:09			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/09/22 00:04	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/09/22 00:04	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/09/22 00:04	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: AP-2 FB-1		Lab ID: 92623533004		Collected: 08/31/22 16:45		Received: 09/01/22 09:05		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 22:26	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 18:52	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 18:52	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 18:52	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 18:52	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 18:52	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 18:52	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 18:52	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 18:52	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 18:52	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 18:52	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 18:52	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 18:52	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 18:52	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/22 10:00	09/26/22 14:38	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/05/22 13:09			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/09/22 00:18	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/09/22 00:18	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/09/22 00:18	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: YGWC-27S		Lab ID: 92623533005		Collected: 09/01/22 10:30		Received: 09/02/22 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/23/22 09:55		
pH	6.13	Std. Units			1		09/23/22 09:55		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	21.3	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 15:45	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 20:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 20:28	7440-38-2	
Barium	0.049	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 20:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 20:28	7440-41-7	
Boron	1.0	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 20:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 20:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 20:28	7440-47-3	
Cobalt	0.0015J	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 20:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 20:28	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 20:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 20:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 20:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 20:28	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00019J	mg/L	0.00020	0.00013	1	09/20/22 16:00	09/21/22 12:44	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	124	mg/L	25.0	10.0	1		09/06/22 14:53		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	10.4	mg/L	1.0	0.60	1		09/08/22 20:52	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		09/08/22 20:52	16984-48-8	
Sulfate	13.5	mg/L	1.0	0.50	1		09/08/22 20:52	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: YGWC-271		Lab ID: 92623533006		Collected: 09/01/22 09:25		Received: 09/02/22 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/23/22 09:55		
pH	6.13	Std. Units			1		09/23/22 09:55		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	28.2	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 15:50	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 20:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 20:34	7440-38-2	
Barium	0.076	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 20:34	7440-39-3	
Beryllium	0.00012J	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 20:34	7440-41-7	
Boron	2.3	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 20:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 20:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 20:34	7440-47-3	
Cobalt	0.0096	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 20:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 20:34	7439-92-1	
Lithium	0.0069J	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 20:34	7439-93-2	
Molybdenum	0.0016J	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 20:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 20:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 20:34	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/22 10:00	09/26/22 14:40	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	193	mg/L	25.0	10.0	1		09/05/22 13:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	13.4	mg/L	1.0	0.60	1		09/08/22 21:07	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		09/08/22 21:07	16984-48-8	
Sulfate	2.5	mg/L	1.0	0.50	1		09/08/22 21:07	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: YGWC-28S		Lab ID: 92623533007		Collected: 09/01/22 17:55		Received: 09/02/22 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/23/22 09:56		
pH	6.59	Std. Units			1		09/23/22 09:56		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	33.1	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 15:54	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 20:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 20:40	7440-38-2	
Barium	0.20	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 20:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 20:40	7440-41-7	
Boron	2.2	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 20:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 20:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 20:40	7440-47-3	
Cobalt	0.00071J	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 20:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 20:40	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 20:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 20:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 20:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 20:40	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/26/22 10:00	09/26/22 14:43	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	225	mg/L	25.0	10.0	1		09/05/22 13:13		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	16.5	mg/L	1.0	0.60	1		09/08/22 21:22	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.050	1		09/08/22 21:22	16984-48-8	
Sulfate	13.4	mg/L	1.0	0.50	1		09/08/22 21:22	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: YGWC-28I		Lab ID: 92623533008		Collected: 09/01/22 11:40		Received: 09/02/22 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/23/22 09:56		
pH	6.41	Std. Units			1		09/23/22 09:56		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	26.3	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 15:59	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 20:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 20:46	7440-38-2	
Barium	0.068	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 20:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 20:46	7440-41-7	
Boron	1.8	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 20:46	7440-42-8	
Cadmium	0.00017J	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 20:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 20:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 20:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 20:46	7439-92-1	
Lithium	0.0066J	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 20:46	7439-93-2	
Molybdenum	0.0010J	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 20:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 20:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 20:46	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/21/22 09:00	09/21/22 12:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	186	mg/L	25.0	10.0	1		09/06/22 14:53		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	10.4	mg/L	1.0	0.60	1		09/09/22 09:02	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		09/09/22 09:02	16984-48-8	
Sulfate	7.6	mg/L	1.0	0.50	1		09/09/22 09:02	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: AP-2-DUP-1		Lab ID: 92623533009		Collected: 09/01/22 00:00		Received: 09/02/22 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	26.3	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 16:04	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:08	09/20/22 20:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:08	09/20/22 20:52	7440-38-2	
Barium	0.065	mg/L	0.0050	0.00067	1	09/19/22 18:08	09/20/22 20:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:08	09/20/22 20:52	7440-41-7	
Boron	1.7	mg/L	0.040	0.0086	1	09/19/22 18:08	09/20/22 20:52	7440-42-8	
Cadmium	0.00011J	mg/L	0.00050	0.00011	1	09/19/22 18:08	09/20/22 20:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:08	09/20/22 20:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:08	09/20/22 20:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:08	09/20/22 20:52	7439-92-1	
Lithium	0.0063J	mg/L	0.030	0.00073	1	09/19/22 18:08	09/20/22 20:52	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00074	1	09/19/22 18:08	09/20/22 20:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:08	09/20/22 20:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:08	09/20/22 20:52	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/21/22 09:00	09/21/22 13:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	170	mg/L	25.0	10.0	1		09/06/22 14:53		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	10.3	mg/L	1.0	0.60	1		09/09/22 09:17	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		09/09/22 09:17	16984-48-8	
Sulfate	7.5	mg/L	1.0	0.50	1		09/09/22 09:17	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: YGWC-29I		Lab ID: 92623533010		Collected: 09/01/22 14:40		Received: 09/02/22 09:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/23/22 09:56		
pH	6.05	Std. Units			1		09/23/22 09:56		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	11.0	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 16:09	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:12	09/20/22 21:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:12	09/20/22 21:27	7440-38-2	
Barium	0.057	mg/L	0.0050	0.00067	1	09/19/22 18:12	09/20/22 21:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:12	09/20/22 21:27	7440-41-7	
Boron	0.71	mg/L	0.040	0.0086	1	09/19/22 18:12	09/20/22 21:27	7440-42-8	
Cadmium	0.00020J	mg/L	0.00050	0.00011	1	09/19/22 18:12	09/20/22 21:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:12	09/20/22 21:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:12	09/20/22 21:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:12	09/20/22 21:27	7439-92-1	
Lithium	0.0051J	mg/L	0.030	0.00073	1	09/19/22 18:12	09/20/22 21:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:12	09/20/22 21:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:12	09/20/22 21:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:12	09/20/22 21:27	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/21/22 09:00	09/21/22 13:15	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	128	mg/L	25.0	10.0	1		09/06/22 14:53		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	8.1	mg/L	1.0	0.60	1		09/09/22 09:32	16887-00-6	
Fluoride	0.091J	mg/L	0.10	0.050	1		09/09/22 09:32	16984-48-8	
Sulfate	21.2	mg/L	1.0	0.50	1		09/09/22 09:32	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: AP-2-EB-2		Lab ID: 92623533011		Collected: 09/01/22 18:00		Received: 09/02/22 09:15		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 16:13	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:12	09/20/22 21:33	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:12	09/20/22 21:33	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/19/22 18:12	09/20/22 21:33	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:12	09/20/22 21:33	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/19/22 18:12	09/20/22 21:33	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:12	09/20/22 21:33	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:12	09/20/22 21:33	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:12	09/20/22 21:33	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:12	09/20/22 21:33	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/19/22 18:12	09/20/22 21:33	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:12	09/20/22 21:33	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:12	09/20/22 21:33	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:12	09/20/22 21:33	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/21/22 09:00	09/21/22 13:18	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/06/22 14:53			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/09/22 09:47	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/09/22 09:47	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/09/22 09:47	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates AP-2
Pace Project No.: 92623533

Sample: AP-2-FB-2		Lab ID: 92623533012		Collected: 09/01/22 14:50	Received: 09/02/22 09:15	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/16/22 11:02	09/16/22 16:42	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/19/22 18:12	09/20/22 21:39	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/19/22 18:12	09/20/22 21:39	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/19/22 18:12	09/20/22 21:39	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/19/22 18:12	09/20/22 21:39	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/19/22 18:12	09/20/22 21:39	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/19/22 18:12	09/20/22 21:39	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/19/22 18:12	09/20/22 21:39	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/19/22 18:12	09/20/22 21:39	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/19/22 18:12	09/20/22 21:39	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/19/22 18:12	09/20/22 21:39	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/19/22 18:12	09/20/22 21:39	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/19/22 18:12	09/20/22 21:39	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/19/22 18:12	09/20/22 21:39	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/21/22 09:00	09/21/22 13:21	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/06/22 14:53			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/09/22 10:02	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/09/22 10:02	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/09/22 10:02	14808-79-8		

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QUALITY CONTROL DATA

Project: Plant Yates AP-2

Pace Project No.: 92623533

QC Batch:	723576	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623533001, 92623533002, 92623533003, 92623533004

METHOD BLANK: 3770129 Matrix: Water
Associated Lab Samples: 92623533001, 92623533002, 92623533003, 92623533004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/15/22 20:13	

LABORATORY CONTROL SAMPLE: 3770130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3770131 3770132

Parameter	Units	3770131		3770132		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623294001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	40.6	1	1	40.6	40.8	1	25	75-125	1	20 M1

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QUALITY CONTROL DATA

Project: Plant Yates AP-2
Pace Project No.: 92623533

QC Batch:	723769	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623533005, 92623533006, 92623533007, 92623533008, 92623533009, 92623533010, 92623533011, 92623533012

METHOD BLANK: 3771218 Matrix: Water
Associated Lab Samples: 92623533005, 92623533006, 92623533007, 92623533008, 92623533009, 92623533010, 92623533011, 92623533012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/16/22 14:45	

LABORATORY CONTROL SAMPLE: 3771219

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: 3771220 3771221

Parameter	Units	92623532021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	11.1	1	1	12.1	11.8	99	66	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: Plant Yates AP-2
Pace Project No.: 92623533

QC Batch: 724231 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623533001, 92623533002, 92623533003, 92623533004, 92623533005, 92623533006, 92623533007, 92623533008, 92623533009

METHOD BLANK: 3773717 Matrix: Water
Associated Lab Samples: 92623533001, 92623533002, 92623533003, 92623533004, 92623533005, 92623533006, 92623533007, 92623533008, 92623533009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/20/22 18:05	
Arsenic	mg/L	ND	0.0050	0.0022	09/20/22 18:05	
Barium	mg/L	ND	0.0050	0.00067	09/20/22 18:05	
Beryllium	mg/L	ND	0.00050	0.000054	09/20/22 18:05	
Boron	mg/L	ND	0.040	0.0086	09/20/22 18:05	
Cadmium	mg/L	ND	0.00050	0.00011	09/20/22 18:05	
Chromium	mg/L	ND	0.0050	0.0011	09/20/22 18:05	
Cobalt	mg/L	ND	0.0050	0.00039	09/20/22 18:05	
Lead	mg/L	ND	0.0010	0.00089	09/20/22 18:05	
Lithium	mg/L	ND	0.030	0.00073	09/20/22 18:05	
Molybdenum	mg/L	ND	0.010	0.00074	09/20/22 18:05	
Selenium	mg/L	ND	0.0050	0.0014	09/20/22 18:05	
Thallium	mg/L	ND	0.0010	0.00018	09/20/22 18:05	

LABORATORY CONTROL SAMPLE: 3773718

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	0.098	98	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.096	96	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3773719 3773720

Parameter	Units	92623533001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	102	105	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Yates AP-2

Pace Project No.: 92623533

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3773719 3773720												
Parameter	Units	92623533001		MS		MSD		MS		MSD		Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec	% Rec	MSD % Rec		
Arsenic	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20	
Barium	mg/L	0.024	0.1	0.1	0.12	0.13	100	105	75-125	4	20	
Beryllium	mg/L	0.00074J	0.1	0.1	0.086	0.089	86	89	75-125	3	20	
Boron	mg/L	0.70	1	1	1.7	1.7	98	103	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	101	105	75-125	3	20	
Cobalt	mg/L	0.0026J	0.1	0.1	0.10	0.11	101	103	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.085	0.089	85	89	75-125	5	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Yates AP-2
Pace Project No.: 92623533

QC Batch: 724235 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623533010, 92623533011, 92623533012

METHOD BLANK: 3773750 Matrix: Water
Associated Lab Samples: 92623533010, 92623533011, 92623533012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/20/22 21:15	
Arsenic	mg/L	ND	0.0050	0.0022	09/20/22 21:15	
Barium	mg/L	ND	0.0050	0.00067	09/20/22 21:15	
Beryllium	mg/L	ND	0.00050	0.000054	09/20/22 21:15	
Boron	mg/L	ND	0.040	0.0086	09/20/22 21:15	
Cadmium	mg/L	ND	0.00050	0.00011	09/20/22 21:15	
Chromium	mg/L	ND	0.0050	0.0011	09/20/22 21:15	
Cobalt	mg/L	ND	0.0050	0.00039	09/20/22 21:15	
Lead	mg/L	ND	0.0010	0.00089	09/20/22 21:15	
Lithium	mg/L	ND	0.030	0.00073	09/20/22 21:15	
Molybdenum	mg/L	ND	0.010	0.00074	09/20/22 21:15	
Selenium	mg/L	ND	0.0050	0.0014	09/20/22 21:15	
Thallium	mg/L	ND	0.0010	0.00018	09/20/22 21:15	

LABORATORY CONTROL SAMPLE: 3773751

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	0.098	98	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.095	95	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3773756 3773757

Parameter	Units	92624984004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	105	104	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.098	98	97	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Yates AP-2

Pace Project No.: 92623533

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3773756 3773757																
Parameter	Units	92624984004		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
Barium	mg/L	32.4 ug/L	0.1	0.1	0.14	0.14	103	104	75-125	1	20					
Beryllium	mg/L	ND	0.1	0.1	0.092	0.090	92	90	75-125	2	20					
Boron	mg/L	39.7J ug/L	1	1	1.0	1.0	99	97	75-125	2	20					
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20					
Chromium	mg/L	ND	0.1	0.1	0.099	0.10	98	101	75-125	2	20					
Cobalt	mg/L	0.51J ug/L	0.1	0.1	0.098	0.10	97	100	75-125	2	20					
Lead	mg/L	ND	0.1	0.1	0.097	0.093	96	93	75-125	4	20					
Lithium	mg/L	ND	0.1	0.1	0.092	0.090	92	90	75-125	2	20					
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20					
Selenium	mg/L	ND	0.1	0.1	0.096	0.098	96	98	75-125	2	20					
Thallium	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	3	20					

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QUALITY CONTROL DATA

Project: Plant Yates AP-2
Pace Project No.: 92623533

QC Batch: 724414 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623533001, 92623533005

METHOD BLANK: 3774307 Matrix: Water
Associated Lab Samples: 92623533001, 92623533005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/21/22 11:36	

LABORATORY CONTROL SAMPLE: 3774308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0029	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774309 3774310

Parameter	Units	92623532012		3774310		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	0.00016J	0.0025	0.0025	0.0033	0.0026	124	96	75-125	24	20 R1

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QUALITY CONTROL DATA

Project: Plant Yates AP-2
Pace Project No.: 92623533

QC Batch: 724415 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623533008, 92623533009, 92623533010, 92623533011, 92623533012

METHOD BLANK: 3774316 Matrix: Water
Associated Lab Samples: 92623533008, 92623533009, 92623533010, 92623533011, 92623533012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/21/22 12:52	

LABORATORY CONTROL SAMPLE: 3774317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3774318 3774319

Parameter	Units	3774318		3774319		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	0.0024	0.0026	97	103	75-125	6	20	

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QUALITY CONTROL DATA

Project: Plant Yates AP-2
Pace Project No.: 92623533

QC Batch: 725598 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623533002, 92623533003, 92623533004, 92623533006, 92623533007

METHOD BLANK: 3780173 Matrix: Water
Associated Lab Samples: 92623533002, 92623533003, 92623533004, 92623533006, 92623533007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/26/22 14:27	

LABORATORY CONTROL SAMPLE: 3780174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3780175 3780176

Parameter	Units	92624810001		3780175		3780176		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.				
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0023	91	90	75-125	1	20

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QUALITY CONTROL DATA

Project: Plant Yates AP-2

Pace Project No.: 92623533

QC Batch: 721455

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: 92623533001, 92623533002

METHOD BLANK: 3759030

Matrix: Water

Associated Lab Samples: 92623533001, 92623533002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/05/22 12:59	

LABORATORY CONTROL SAMPLE: 3759031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3759032

Parameter	Units	92623226010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	33.0	44.0	29	25	D6

SAMPLE DUPLICATE: 3759033

Parameter	Units	92623533001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	206	204	1	25	

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QUALITY CONTROL DATA

Project: Plant Yates AP-2

Pace Project No.: 92623533

QC Batch: 721456

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: 92623533003, 92623533004, 92623533006, 92623533007

METHOD BLANK: 3759034

Matrix: Water

Associated Lab Samples: 92623533003, 92623533004, 92623533006, 92623533007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/05/22 13:08	

LABORATORY CONTROL SAMPLE: 3759035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	382	96	80-120	

SAMPLE DUPLICATE: 3759036

Parameter	Units	92623532004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	336	338	1	25	

SAMPLE DUPLICATE: 3759037

Parameter	Units	92623532013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	908	930	2	25	

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QUALITY CONTROL DATA

Project: Plant Yates AP-2
Pace Project No.: 92623533

QC Batch: 721563 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: 92623533005, 92623533008, 92623533009, 92623533010, 92623533011, 92623533012

METHOD BLANK: 3759489 Matrix: Water
Associated Lab Samples: 92623533005, 92623533008, 92623533009, 92623533010, 92623533011, 92623533012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/06/22 14:51	

LABORATORY CONTROL SAMPLE: 3759490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	80-120	

SAMPLE DUPLICATE: 3759491

Parameter	Units	92623226006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	148	139	6	25	

SAMPLE DUPLICATE: 3759492

Parameter	Units	92623533010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	128	119	7	25	

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QUALITY CONTROL DATA

Project: Plant Yates AP-2
Pace Project No.: 92623533

QC Batch: 722008 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: 92623533001, 92623533002, 92623533003, 92623533004

METHOD BLANK: 3761879 Matrix: Water
Associated Lab Samples: 92623533001, 92623533002, 92623533003, 92623533004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/22 21:58	
Fluoride	mg/L	ND	0.10	0.050	09/08/22 21:58	
Sulfate	mg/L	ND	1.0	0.50	09/08/22 21:58	

LABORATORY CONTROL SAMPLE: 3761880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761881 3761882

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623532006	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	5.5	50	50	57.4	57.9	104	105	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	98	90-110	2	10		
Sulfate	mg/L	67.9	50	50	117	117	99	99	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761883 3761884

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623294009	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	14.5	50	50	66.1	66.6	103	104	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	95	90-110	0	10		
Sulfate	mg/L	280	50	50	326	329	93	100	90-110	1	10		

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QUALITY CONTROL DATA

Project: Plant Yates AP-2
Pace Project No.: 92623533

QC Batch:	722013	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: 92623533005, 92623533006, 92623533007, 92623533008, 92623533009, 92623533010, 92623533011, 92623533012

METHOD BLANK: 3761892 Matrix: Water
Associated Lab Samples: 92623533005, 92623533006, 92623533007, 92623533008, 92623533009, 92623533010, 92623533011, 92623533012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/22 16:08	
Fluoride	mg/L	ND	0.10	0.050	09/08/22 16:08	
Sulfate	mg/L	ND	1.0	0.50	09/08/22 16:08	

LABORATORY CONTROL SAMPLE: 3761893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761894 3761895

Parameter	Units	92623532014		3761895		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	3.8	50	50	55.4	55.8	103	104	90-110	1	10
Fluoride	mg/L	0.057J	2.5	2.5	2.4	2.5	94	97	90-110	3	10
Sulfate	mg/L	495	50	50	542	537	94	84	90-110	1	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761896 3761897

Parameter	Units	92623532024		3761897		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	ND	50	50	50.7	51.8	101	104	90-110	2	10
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	99	103	90-110	4	10
Sulfate	mg/L	ND	50	50	50.1	51.6	100	103	90-110	3	10

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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QUALIFIERS

Project: Plant Yates AP-2

Pace Project No.: 92623533

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

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AP-2
Pace Project No.: 92623533

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623533001	YGWC-26S				
92623533002	YGWC-26I				
92623533005	YGWC-27S				
92623533006	YGWC-27I				
92623533007	YGWC-28S				
92623533008	YGWC-28I				
92623533010	YGWC-29I				
92623533001	YGWC-26S	EPA 3010A	723576	EPA 6010D	723671
92623533002	YGWC-26I	EPA 3010A	723576	EPA 6010D	723671
92623533003	AP-2 EB-1	EPA 3010A	723576	EPA 6010D	723671
92623533004	AP-2 FB-1	EPA 3010A	723576	EPA 6010D	723671
92623533005	YGWC-27S	EPA 3010A	723769	EPA 6010D	723848
92623533006	YGWC-27I	EPA 3010A	723769	EPA 6010D	723848
92623533007	YGWC-28S	EPA 3010A	723769	EPA 6010D	723848
92623533008	YGWC-28I	EPA 3010A	723769	EPA 6010D	723848
92623533009	AP-2-DUP-1	EPA 3010A	723769	EPA 6010D	723848
92623533010	YGWC-29I	EPA 3010A	723769	EPA 6010D	723848
92623533011	AP-2-EB-2	EPA 3010A	723769	EPA 6010D	723848
92623533012	AP-2-FB-2	EPA 3010A	723769	EPA 6010D	723848
92623533001	YGWC-26S	EPA 3005A	724231	EPA 6020B	724354
92623533002	YGWC-26I	EPA 3005A	724231	EPA 6020B	724354
92623533003	AP-2 EB-1	EPA 3005A	724231	EPA 6020B	724354
92623533004	AP-2 FB-1	EPA 3005A	724231	EPA 6020B	724354
92623533005	YGWC-27S	EPA 3005A	724231	EPA 6020B	724354
92623533006	YGWC-27I	EPA 3005A	724231	EPA 6020B	724354
92623533007	YGWC-28S	EPA 3005A	724231	EPA 6020B	724354
92623533008	YGWC-28I	EPA 3005A	724231	EPA 6020B	724354
92623533009	AP-2-DUP-1	EPA 3005A	724231	EPA 6020B	724354
92623533010	YGWC-29I	EPA 3005A	724235	EPA 6020B	724356
92623533011	AP-2-EB-2	EPA 3005A	724235	EPA 6020B	724356
92623533012	AP-2-FB-2	EPA 3005A	724235	EPA 6020B	724356
92623533001	YGWC-26S	EPA 7470A	724414	EPA 7470A	724673
92623533002	YGWC-26I	EPA 7470A	725598	EPA 7470A	725794
92623533003	AP-2 EB-1	EPA 7470A	725598	EPA 7470A	725794
92623533004	AP-2 FB-1	EPA 7470A	725598	EPA 7470A	725794
92623533005	YGWC-27S	EPA 7470A	724414	EPA 7470A	724673
92623533006	YGWC-27I	EPA 7470A	725598	EPA 7470A	725794
92623533007	YGWC-28S	EPA 7470A	725598	EPA 7470A	725794
92623533008	YGWC-28I	EPA 7470A	724415	EPA 7470A	724676
92623533009	AP-2-DUP-1	EPA 7470A	724415	EPA 7470A	724676
92623533010	YGWC-29I	EPA 7470A	724415	EPA 7470A	724676
92623533011	AP-2-EB-2	EPA 7470A	724415	EPA 7470A	724676
92623533012	AP-2-FB-2	EPA 7470A	724415	EPA 7470A	724676
92623533001	YGWC-26S	SM 2540C-2015	721455		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AP-2
Pace Project No.: 92623533

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623533002	YGWC-26I	SM 2540C-2015	721455		
92623533003	AP-2 EB-1	SM 2540C-2015	721456		
92623533004	AP-2 FB-1	SM 2540C-2015	721456		
92623533005	YGWC-27S	SM 2540C-2015	721563		
92623533006	YGWC-27I	SM 2540C-2015	721456		
92623533007	YGWC-28S	SM 2540C-2015	721456		
92623533008	YGWC-28I	SM 2540C-2015	721563		
92623533009	AP-2-DUP-1	SM 2540C-2015	721563		
92623533010	YGWC-29I	SM 2540C-2015	721563		
92623533011	AP-2-EB-2	SM 2540C-2015	721563		
92623533012	AP-2-FB-2	SM 2540C-2015	721563		
92623533001	YGWC-26S	EPA 300.0 Rev 2.1 1993	722008		
92623533002	YGWC-26I	EPA 300.0 Rev 2.1 1993	722008		
92623533003	AP-2 EB-1	EPA 300.0 Rev 2.1 1993	722008		
92623533004	AP-2 FB-1	EPA 300.0 Rev 2.1 1993	722008		
92623533005	YGWC-27S	EPA 300.0 Rev 2.1 1993	722013		
92623533006	YGWC-27I	EPA 300.0 Rev 2.1 1993	722013		
92623533007	YGWC-28S	EPA 300.0 Rev 2.1 1993	722013		
92623533008	YGWC-28I	EPA 300.0 Rev 2.1 1993	722013		
92623533009	AP-2-DUP-1	EPA 300.0 Rev 2.1 1993	722013		
92623533010	YGWC-29I	EPA 300.0 Rev 2.1 1993	722013		
92623533011	AP-2-EB-2	EPA 300.0 Rev 2.1 1993	722013		
92623533012	AP-2-FB-2	EPA 300.0 Rev 2.1 1993	722013		

REPORT OF LABORATORY ANALYSIS

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DC#_ Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mecklenburg Kannapolis

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92623533



Courier: Fed Ex UPS USPS Client Commercial Pace Other

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/1/22

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:

2.5

Correction Factor:

Add/Subtract (°C) 6.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

2.5

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:	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

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92623533

PM: NMG

Due Date: 09/16/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TQC, 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)	DG94-250 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)	DG9S-40 mL VOA H2SO4 (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)	
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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 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

WO#: 92623533

PM: NMG

Due Date: 09/19/22

CLIENT: GA-GA Power

Courier: Commercial Fed Ex UPS USPS Client Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/2/22 Jm

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) 0.6

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

Cooler Temp Corrected (°C): 4.3

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: 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 checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



WO#: 92623533

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

Project #

PM: NMG

Due Date: 09/19/22

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

CLIENT: GA-GA Power

*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)	BP2Z-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)	DG94-250 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)	DG9S-40 mL VOA H2SO4 (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)	DG9H-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.

Section A

Requester Client Information:
 Company: GA Power
 Address: Albany, GA
 Email To: [redacted]
 Phone: 470.620.8178
 Requested Date: [redacted]

Section B

Requested Project Information:
 Project To: SCS Contracts
 Copy To: Amanda Conrath
 Purchase Order #: [redacted]
 Project Name: Plant Values A/E-2
 Project Number: [redacted]

Section C

Invoice Information:
 Customer: Southern Co.
 Company Name: [redacted]
 Address: [redacted]
 Site Code: [redacted]
 Plant Project Manager: Nicole O'Quinn
 Plant Facility #: 10840

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

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9) - Samples less than 100g	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C/CODE)	DATE TIME		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							App III / IV Metals	Cd, F, BO4	VDS (2540C)	RAD 0318/0920	Residual Chlorine (V20)
				START	END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					
YGWC-286		WVG	G	9/11/12			4											8534	
YGWC-281		WVG	G	9/11/12			4											8.61	
YGWC-278		WVG	G	9/11/12			4											5.77	
YGWC-271		WVG	G				4												
YGWC-268		WVG	G				4												
YGWC-281		WVG	G				4												
AP-2-DR-1		WVG	G				4												
AP-2-EB-1		WVG	G	9/13/12		1555	4												
AP-2-EB-2		WVG	G				4												
AP-2-EB-1		WVG	G	9/11/12			4												
AP-2-EB-2		WVG	G				4												
AP-2-EB-2		WVG	G	9/11/12			4												

Address Data (SOU) (G, F, S, S, S, S)
 App II Metals: Boron (B208), Cr (8120)
 App IV Metals: Arsenic (80), Antimony (80), Aspartic (90), Sulfur (80),
 Beryllium (80), Cadmium (80), Chromium (80), Cobalt (80), Lead (80),
 Lithium (80), Manganese (80), Selenium (80),
 Nickel (80), Strontium (80)

Print Name of Sampling: [redacted]
 Signature of Sampling: [redacted]
 DATE Signed: 9/11

TEMP in C
 Received on Ice (V10)
 Custody Sealed Cooler (V20)
 Samples Intact (V20)

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A		Section B		Section C	
Required Client Information: Company: GA Power Address: Atlanta, GA		Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts		Invoice Information: Attention: Southern Co. Company Name: Address: Pace Quote: Pace Project Manager: Nicole D'Ono Pace Profile #: 10840	
Email To: laucoker@southernco.com Phone: 470.620.6176 Requested Due Date:		Purchase Order #: Plant Yates AP-2 Project Name: Project Number:		Regulatory Agency: State / Location: Georgia	
MATRIX Drinking Water Wastewater Product Soil/Solid Oil Wipe Air Other Tissue		MATRIX CODE (see valid codes to left) DW WW P SL CL WP AR OT TS		Residual Chlorine (Y/N)	
SAMPLE ID One Character per box. (A-Z, 0-9, -, /) Sample IDs must be unique		SAMPLE TYPE (G=Grab, C=Cont) MATRIX CODE (see valid codes to left)		Analyses Test Y/N App III / IV Metals Cl, F, SO4 TTS (2540C) RAD 9315/9320	
COLLECTED START DATE TIME END DATE TIME		SAMPLE TEMP AT COLLECTION		Preservatives H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	
RELINQUISHED BY / AFFILIATION DATE TIME		ACCEPTED BY / AFFILIATION DATE TIME		SAMPLE CONDITIONS Received on Ice (Y/N) Cooled (Y/N) Sealed (Y/N) Intact (Y/N)	
ADDITIONAL COMMENTS Arcadis Suite 300.0 (Cl, F, Sulfate) App III Metals: Boron 6020B, Ca 6010D 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) 7060A: Mercury (Hg)		SIGNATURE OF SAMPLER: Ryan Williams / Pace DATE SIGNED: 9/1/12		SIGNATURE OF SAMPLER: Ryan Williams / Pace DATE SIGNED: 9/1/12	

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
 Requested Chain Information:
 Company: GA Power
 Address: Albany, GA
 Email To: jhancher@ga.gov
 Phone: 478.520.6176
 Requested Due Date:

Section B
 Requested Project Information:
 Report To: SCS Contacts
 Copy To: Analytical Contacts
 Purchasing Order #:
 Project Name: Plant Yates AUSA-RS
 Project Number:

Section C
 Previous Information:
 Analytical: Southern
 Company Name: Southern Co.
 Address:
 Plant Name:
 Plant Project Manager:
 Plant Phone #: 10940

ITEM #	SAMPLE ID One Character post box: (A-Z, 0-9, -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (Q-QRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES								App RIIV Metals Cl, F, SO4 YDS (2640C) RAD 0318/9320	Residual Chlorine (Y/N)				
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	H2SO4	Methanol	Other							
VAAN-4		MG G	G				2														
VAAN-5		MG G	G				2														
PZ-37		MG G	G				2														
AUA-DUP-3		MG G	G				2														
PZ-37D		MG G	G				2														
PZ-51		MG G	G				2														
PZ-55		MG G	G				2														
AUA-EB-1		MG G	G	8/31/00			2														
AUA-EB-2		MG G	G				2														
AUA-FB-1		MG G	G	8/31/00			2														
AUA-FB-2		MG G	G				2														

APPROVED SIGNATURE: *[Signature]* DATE: 9/12/00

ANALYST SIGNATURE: *[Signature]* DATE: 9/12/00

PLANT Name of ANALYST: *[Signature]* DATE: 9/12/00

SIGNATURE of ANALYST: *[Signature]* DATE: 9/12/00

TEMP in C: _____

Received on (Y/N): _____

Cooling/Sealed Cooler (Y/N): _____

Sample Intact (Y/N): _____

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
 Analytical Client Information:
 Company: GA Power
 Address: Atlanta, GA
 Contact: [Blank]

Section B
 Requested Project Information:
 Report To: SCOS Contract
 City/To: Atlanta Contracts
 Project Name: Flight Votex AAAA-15
 Project Number: [Blank]

Section C
 Analytical Information:
 Address: Southem Co.
 County Name: [Blank]
 Project Manager: Nicole D'Ono
 Phone: 706-335-1084

Page: 1 of 2

ITEM #	SAMPLE ID <small>One Character per box (A-Z 0-9 / -)</small> <small>Samples for metal testing only</small>	MATRIX CODE <small>(see valid codes to left)</small>	SAMPLE TYPE <small>(G-ORAG)</small>	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives								App 611V Metals	Cl, F, SO4	TDS (2840C)	RAD 8318/8320	Residual Chlorine (Y/N)								
				START DATE	END DATE	TIME	TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other													
1	YGWC-235	WGC	G					5																					
2	YAMW-1	WGC	G					5																					
3	AAAA-DUP-1	WGC	G					5																					
4	YGWC-38A	WGC	G					5																					
5	YGWC-48	WGC	G					5																					
6	YGWC-38	WGC	G					5																					
7	AAAA-DUP-2	WGC	G					5																					
8	YGWC-41	WGC	G					5																					
9	YGWC-42	WGC	G					5																					
10	YGWC-43	WGC	G					5																					
11	YAMW-2	WGC	G					5																					
12	YAMW-3	WGC	G					5																					

Address: 300 B (C, F Street)
 App II Name: Barton Street, Ca 80110
 App N: [Blank]
 App M: [Blank]
 App O: [Blank]
 App P: [Blank]
 App Q: [Blank]
 App R: [Blank]
 App S: [Blank]
 App T: [Blank]
 App U: [Blank]
 App V: [Blank]
 App W: [Blank]
 App X: [Blank]
 App Y: [Blank]
 App Z: [Blank]

Signature: *[Handwritten Signature]*
 Name: Ryan Williams
 Date: 9/12/12

Signature: *[Handwritten Signature]*
 Name: Jake Swanson
 Date: 9/12/12

Signature: *[Handwritten Signature]*
 Name: [Blank]
 Date: 9/12/12

Signature: *[Handwritten Signature]*
 Name: [Blank]
 Date: 9/12/12

Signature: *[Handwritten Signature]*
 Name: [Blank]
 Date: 9/12/12

TEMP in C
 Received on [Blank] (Y/N)
 Cavity Sealed Cooler (Y/N)
 Sample Intake (Y/N)

September 26, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Yates AP-2 Rads
Pace Project No.: 92623534

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between September 01, 2022 and September 02, 2022. 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,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM

Albert Zumbuhl, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates AP-2 Rads
Pace Project No.: 92623534

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
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
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623534001	YGWC-26S	Water	08/31/22 17:15	09/01/22 09:05
92623534002	YGWC-26I	Water	08/31/22 17:40	09/01/22 09:05
92623534003	AP-2 EB-1	Water	08/31/22 15:35	09/01/22 09:05
92623534004	AP-2 FB-1	Water	08/31/22 16:45	09/01/22 09:05
92623534005	YGWC-27S	Water	09/01/22 10:30	09/02/22 09:15
92623534006	YGWC-27I	Water	09/01/22 09:25	09/02/22 09:15
92623534007	YGWC-28S	Water	09/01/22 17:55	09/02/22 09:15
92623534008	YGWC-28I	Water	09/01/22 11:40	09/02/22 09:15
92623534009	AP-2-DUP-1	Water	09/01/22 00:00	09/02/22 09:15
92623534010	YGWC-29I	Water	09/01/22 14:40	09/02/22 09:15
92623534011	AP-2-EB-2	Water	09/01/22 18:00	09/02/22 09:15
92623534012	AP-2-FB-2	Water	09/01/22 14:50	09/02/22 09:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates AP-2 Rads
Pace Project No.: 92623534

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92623534001	YGWC-26S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534002	YGWC-26I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534003	AP-2 EB-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534004	AP-2 FB-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534005	YGWC-27S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534006	YGWC-27I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534007	YGWC-28S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534008	YGWC-28I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534009	AP-2-DUP-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534010	YGWC-29I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534011	AP-2-EB-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623534012	AP-2-FB-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AP-2 Rads
Pace Project No.: 92623534

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623534001	YGWC-26S					
EPA 9315	Radium-226	0.0752 ± 0.0908 (0.186) C:89% T:NA	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	0.527 ± 0.397 (0.779) C:70% T:87%	pCi/L		09/21/22 12:21	
Total Radium Calculation	Total Radium	0.602 ± 0.488 (0.965)	pCi/L		09/26/22 14:14	
92623534002	YGWC-26I					
EPA 9315	Radium-226	0.179 ± 0.114 (0.171) C:91% T:NA	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	-0.123 ± 0.466 (1.11) C:78% T:85%	pCi/L		09/21/22 18:29	
Total Radium Calculation	Total Radium	0.179 ± 0.580 (1.28)	pCi/L		09/26/22 14:14	
92623534003	AP-2 EB-1					
EPA 9315	Radium-226	0.0282 ± 0.0830 (0.204) C:84% T:NA	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	-0.173 ± 0.433 (1.04) C:73% T:94%	pCi/L		09/21/22 18:29	
Total Radium Calculation	Total Radium	0.0282 ± 0.516 (1.24)	pCi/L		09/26/22 14:14	
92623534004	AP-2 FB-1					
EPA 9315	Radium-226	0.0168 ± 0.0669 (0.171) C:92% T:NA	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	0.334 ± 0.442 (0.944) C:79% T:92%	pCi/L		09/21/22 18:29	
Total Radium Calculation	Total Radium	0.351 ± 0.509 (1.12)	pCi/L		09/26/22 14:14	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AP-2 Rads
Pace Project No.: 92623534

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623534005	YGWC-27S					
EPA 9315	Radium-226	0.147 ± 0.104 (0.169) C:95% T:NA	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	-0.270 ± 0.461 (1.14) C:70% T:85%	pCi/L		09/21/22 18:29	
Total Radium Calculation	Total Radium	0.147 ± 0.565 (1.31)	pCi/L		09/26/22 14:14	
92623534006	YGWC-27I					
EPA 9315	Radium-226	2.26 ± 0.471 (0.221) C:91% T:NA	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	0.668 ± 0.538 (1.06) C:66% T:89%	pCi/L		09/21/22 19:29	
Total Radium Calculation	Total Radium	2.93 ± 1.01 (1.28)	pCi/L		09/26/22 14:14	
92623534007	YGWC-28S					
EPA 9315	Radium-226	0.127 ± 0.105 (0.184) C:91% T:NA	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	-0.0758 ± 0.348 (0.860) C:69% T:91%	pCi/L		09/21/22 19:29	
Total Radium Calculation	Total Radium	0.127 ± 0.453 (1.04)	pCi/L		09/26/22 14:14	
92623534008	YGWC-28I					
EPA 9315	Radium-226	0.310 ± 0.148 (0.176) C:83% T:NA	pCi/L		09/26/22 09:16	
EPA 9320	Radium-228	0.292 ± 0.492 (1.07) C:75% T:90%	pCi/L		09/21/22 19:29	
Total Radium Calculation	Total Radium	0.602 ± 0.640 (1.25)	pCi/L		09/26/22 14:14	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AP-2 Rads
Pace Project No.: 92623534

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623534009	AP-2-DUP-1					
EPA 9315	Radium-226	0.141 ± 0.121 (0.228) C:92% T:NA	pCi/L		09/26/22 08:38	
EPA 9320	Radium-228	0.269 ± 0.503 (1.10) C:73% T:87%	pCi/L		09/21/22 19:29	
Total Radium Calculation	Total Radium	0.410 ± 0.624 (1.33)	pCi/L		09/26/22 14:14	
92623534010	YGWC-29I					
EPA 9315	Radium-226	0.297 ± 0.147 (0.208) C:99% T:NA	pCi/L		09/26/22 08:35	
EPA 9320	Radium-228	0.148 ± 0.511 (1.16) C:70% T:85%	pCi/L		09/21/22 19:29	
Total Radium Calculation	Total Radium	0.445 ± 0.658 (1.37)	pCi/L		09/26/22 14:14	
92623534011	AP-2-EB-2					
EPA 9315	Radium-226	0.0594 ± 0.0800 (0.169) C:99% T:NA	pCi/L		09/26/22 08:40	
EPA 9320	Radium-228	0.774 ± 0.584 (1.13) C:71% T:84%	pCi/L		09/21/22 19:29	
Total Radium Calculation	Total Radium	0.833 ± 0.664 (1.30)	pCi/L		09/26/22 14:14	
92623534012	AP-2-FB-2					
EPA 9315	Radium-226	0.0126 ± 0.0638 (0.166) C:94% T:NA	pCi/L		09/26/22 08:40	
EPA 9320	Radium-228	0.570 ± 0.529 (1.08) C:72% T:95%	pCi/L		09/21/22 19:29	
Total Radium Calculation	Total Radium	0.583 ± 0.593 (1.25)	pCi/L		09/26/22 14:14	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: YGWC-26S **Lab ID: 92623534001** Collected: 08/31/22 17:15 Received: 09/01/22 09:05 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	0.0752 ± 0.0908 (0.186) C:89% T:NA	pCi/L	09/26/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.527 ± 0.397 (0.779) C:70% T:87%	pCi/L	09/21/22 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.602 ± 0.488 (0.965)	pCi/L	09/26/22 14:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: YGWC-261 **Lab ID: 92623534002** Collected: 08/31/22 17:40 Received: 09/01/22 09:05 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	0.179 ± 0.114 (0.171) C:91% T:NA	pCi/L	09/26/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.123 ± 0.466 (1.11) C:78% T:85%	pCi/L	09/21/22 18:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.179 ± 0.580 (1.28)	pCi/L	09/26/22 14:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: AP-2 EB-1 **Lab ID: 92623534003** Collected: 08/31/22 15:35 Received: 09/01/22 09:05 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	0.0282 ± 0.0830 (0.204) C:84% T:NA	pCi/L	09/26/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.173 ± 0.433 (1.04) C:73% T:94%	pCi/L	09/21/22 18:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0282 ± 0.516 (1.24)	pCi/L	09/26/22 14:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: AP-2 FB-1 **Lab ID: 92623534004** Collected: 08/31/22 16:45 Received: 09/01/22 09:05 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	0.0168 ± 0.0669 (0.171) C:92% T:NA	pCi/L	09/26/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.334 ± 0.442 (0.944) C:79% T:92%	pCi/L	09/21/22 18:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.351 ± 0.509 (1.12)	pCi/L	09/26/22 14:14	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: YGWC-27S **Lab ID: 92623534005** Collected: 09/01/22 10:30 Received: 09/02/22 09:15 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	0.147 ± 0.104 (0.169) C:95% T:NA	pCi/L	09/26/22 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.270 ± 0.461 (1.14) C:70% T:85%	pCi/L	09/21/22 18:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.147 ± 0.565 (1.31)	pCi/L	09/26/22 14:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: YGWC-271 **Lab ID: 92623534006** Collected: 09/01/22 09:25 Received: 09/02/22 09:15 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	2.26 ± 0.471 (0.221) C:91% T:NA	pCi/L	09/26/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.668 ± 0.538 (1.06) C:66% T:89%	pCi/L	09/21/22 19:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.93 ± 1.01 (1.28)	pCi/L	09/26/22 14:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: YGWC-28S **Lab ID: 92623534007** Collected: 09/01/22 17:55 Received: 09/02/22 09:15 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	0.127 ± 0.105 (0.184) C:91% T:NA	pCi/L	09/26/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0758 ± 0.348 (0.860) C:69% T:91%	pCi/L	09/21/22 19:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.127 ± 0.453 (1.04)	pCi/L	09/26/22 14:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: YGWC-28I **Lab ID: 92623534008** Collected: 09/01/22 11:40 Received: 09/02/22 09:15 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	0.310 ± 0.148 (0.176) C:83% T:NA	pCi/L	09/26/22 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.292 ± 0.492 (1.07) C:75% T:90%	pCi/L	09/21/22 19:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.602 ± 0.640 (1.25)	pCi/L	09/26/22 14:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: AP-2-DUP-1 Lab ID: 92623534009 Collected: 09/01/22 00:00 Received: 09/02/22 09:15 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.141 ± 0.121 (0.228) C:92% T:NA	pCi/L	09/26/22 08:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.269 ± 0.503 (1.10) C:73% T:87%	pCi/L	09/21/22 19:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.410 ± 0.624 (1.33)	pCi/L	09/26/22 14:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWC-29I Lab ID: 92623534010 Collected: 09/01/22 14:40 Received: 09/02/22 09:15 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.297 ± 0.147 (0.208) C:99% T:NA	pCi/L	09/26/22 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.148 ± 0.511 (1.16) C:70% T:85%	pCi/L	09/21/22 19:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.445 ± 0.658 (1.37)	pCi/L	09/26/22 14:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: AP-2-EB-2 **Lab ID: 92623534011** Collected: 09/01/22 18:00 Received: 09/02/22 09:15 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	0.0594 ± 0.0800 (0.169) C:99% T:NA	pCi/L	09/26/22 08:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.774 ± 0.584 (1.13) C:71% T:84%	pCi/L	09/21/22 19:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.833 ± 0.664 (1.30)	pCi/L	09/26/22 14:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

Sample: AP-2-FB-2 **Lab ID: 92623534012** Collected: 09/01/22 14:50 Received: 09/02/22 09:15 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	0.0126 ± 0.0638 (0.166) C:94% T:NA	pCi/L	09/26/22 08:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.570 ± 0.529 (1.08) C:72% T:95%	pCi/L	09/21/22 19:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.583 ± 0.593 (1.25)	pCi/L	09/26/22 14:14	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

QC Batch: 530875

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92623534001, 92623534002, 92623534003, 92623534004, 92623534005, 92623534006, 92623534007, 92623534008, 92623534009, 92623534010, 92623534011, 92623534012

METHOD BLANK: 2574654

Matrix: Water

Associated Lab Samples: 92623534001, 92623534002, 92623534003, 92623534004, 92623534005, 92623534006, 92623534007, 92623534008, 92623534009, 92623534010, 92623534011, 92623534012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.601 ± 0.386 (0.738) C:78% T:91%	pCi/L	09/21/22 12:20	

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-2 Rads

Pace Project No.: 92623534

QC Batch:	530876	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92623534001, 92623534002, 92623534003, 92623534004, 92623534005, 92623534006, 92623534007, 92623534008, 92623534009, 92623534010, 92623534011, 92623534012

METHOD BLANK: 2574656 Matrix: Water

Associated Lab Samples: 92623534001, 92623534002, 92623534003, 92623534004, 92623534005, 92623534006, 92623534007, 92623534008, 92623534009, 92623534010, 92623534011, 92623534012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0122 ± 0.0618 (0.163) C:93% T:NA	pCi/L	09/26/22 09:16	

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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QUALIFIERS

Project: Plant Yates AP-2 Rads

Pace Project No.: 92623534

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-2 Rads

Pace Project No.: 92623534

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623534001	YGWC-26S	EPA 9315	530876		
92623534002	YGWC-26I	EPA 9315	530876		
92623534003	AP-2 EB-1	EPA 9315	530876		
92623534004	AP-2 FB-1	EPA 9315	530876		
92623534005	YGWC-27S	EPA 9315	530876		
92623534006	YGWC-27I	EPA 9315	530876		
92623534007	YGWC-28S	EPA 9315	530876		
92623534008	YGWC-28I	EPA 9315	530876		
92623534009	AP-2-DUP-1	EPA 9315	530876		
92623534010	YGWC-29I	EPA 9315	530876		
92623534011	AP-2-EB-2	EPA 9315	530876		
92623534012	AP-2-FB-2	EPA 9315	530876		
92623534001	YGWC-26S	EPA 9320	530875		
92623534002	YGWC-26I	EPA 9320	530875		
92623534003	AP-2 EB-1	EPA 9320	530875		
92623534004	AP-2 FB-1	EPA 9320	530875		
92623534005	YGWC-27S	EPA 9320	530875		
92623534006	YGWC-27I	EPA 9320	530875		
92623534007	YGWC-28S	EPA 9320	530875		
92623534008	YGWC-28I	EPA 9320	530875		
92623534009	AP-2-DUP-1	EPA 9320	530875		
92623534010	YGWC-29I	EPA 9320	530875		
92623534011	AP-2-EB-2	EPA 9320	530875		
92623534012	AP-2-FB-2	EPA 9320	530875		
92623534001	YGWC-26S	Total Radium Calculation	535440		
92623534002	YGWC-26I	Total Radium Calculation	535440		
92623534003	AP-2 EB-1	Total Radium Calculation	535440		
92623534004	AP-2 FB-1	Total Radium Calculation	535440		
92623534005	YGWC-27S	Total Radium Calculation	535440		
92623534006	YGWC-27I	Total Radium Calculation	535440		
92623534007	YGWC-28S	Total Radium Calculation	535440		
92623534008	YGWC-28I	Total Radium Calculation	535440		
92623534009	AP-2-DUP-1	Total Radium Calculation	535440		
92623534010	YGWC-29I	Total Radium Calculation	535440		
92623534011	AP-2-EB-2	Total Radium Calculation	535440		
92623534012	AP-2-FB-2	Total Radium Calculation	535440		

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DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name: GAPower

Project #: **WO# : 92623534**

Courier: Commercial Fed Ex UPS USPS Client Other

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/1/22

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: 2.5 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): 2.5

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 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

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92623534

PM: NMG

Due Date: 09/23/22

CLIENT: GA-GA Power

*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)	DG94-250 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)	DG9S-40 mL VOA H2SO4 (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 Urpreserved (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.

Section A Requested Client Information:
 Company: GA Power
 Address: Atlanta GA
 Email To: blucolor@scsinc.com
 Phone: 470.829.6176 Fax: _____
 Requested Due Date: _____

Section B Requested Project Information:
 Report To: SCS Contacts
 Copy To: Analysts Contacts
 Purchase Order #: _____
 Project Name: Plant Values AP-2
 Project Number: _____

Section C Invoice Information:
 Invoice: Southern Co.
 Company Name: _____
 Address: _____
 Site Name: _____
 Plant Project Manager: Nicole D'Olivo
 Plant Purbs #: 10840

ITEM #	SAMPLE ID Chem Character pol box (A-Z, 0-9, -) Sample lots must be unique	MATRIX CODE (Use valid codes to left)	SAMPLE TYPE (G=GRAB C=CORE)	COLLECTED		START		END		SAMPLE TEMP AT COLLECTION		PRESERVATIVES								ANALYTICAL								
				DATE	TIME	DATE	TIME					YES/NO																
				TIME	TIME	TIME	TIME					# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III / IV Metals	Cl, F, Br	TOC (2340C)	RAD 6315/9320	Residual Chlorine (V/N)	pH:	Received on ice (Y/N)	Cooling Bathed Cooler (Y/N)
268	YGWC-268	W/G	G	9/13/10	14:05	-	-	-	-	2	Unpreserved								X	X	X	X	X		5.61			
269	YGWC-269	W/G	G	9/15/10	14:05	-	-	-	-	2	Unpreserved								X	X	X	X	X		5.77			
270	YGWC-270	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
271	YGWC-271	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
285	YGWC-285	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
286	YGWC-286	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
287	YGWC-287	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
288	YGWC-288	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
289	YGWC-289	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
290	YGWC-290	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
291	YGWC-291	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
292	YGWC-292	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
293	YGWC-293	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
294	YGWC-294	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
295	YGWC-295	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
296	YGWC-296	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
297	YGWC-297	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
298	YGWC-298	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
299	YGWC-299	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
300	YGWC-300	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
301	YGWC-301	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
302	YGWC-302	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
303	YGWC-303	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
304	YGWC-304	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
305	YGWC-305	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
306	YGWC-306	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
307	YGWC-307	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
308	YGWC-308	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
309	YGWC-309	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
310	YGWC-310	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
311	YGWC-311	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					
312	YGWC-312	W/G	G	-	-	-	-	-	-	2	Unpreserved								X	X	X	X	X					

Section D ADDITIONAL COMMENTS:
 Arches South 2000 (C), F, (redwood)
 App III Metals: Boron (B), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Manganese (Mn), Selenium (Se), Thallium (Tl), Vanadium (V), Zinc (Zn)
 App IV Metals: Boron (B), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Copper (Cu), Lead (Pb), Manganese (Mn), Selenium (Se), Thallium (Tl), Vanadium (V), Zinc (Zn)
 Project Name of Sample: MW11 Cass
 Signature of Sampler: [Signature] DATE Signed: 9/11

TEMP in C: _____
 Received on ice (Y/N): _____
 Cooling Bathed Cooler (Y/N): _____
 Sample Intact (Y/N): _____



DC#_ Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Knoxville

WO#: 92623534

PM: NMG Due Date: 09/26/22

CLIENT: GA-GA Power

Sample Condition Upon Receipt

Client Name: Ga Power

Project #

Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/2/22 JM

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No, N/A

Thermometer:

IR Gun ID: 214

Type of Ice: Wet Blue None

Cooler Temp: 4.3 Correction Factor: 0.6 Add/Subtract (°C)

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

Cooler Temp Corrected (°C): 4.3

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: 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

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



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

Acceptations: 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#: 92623534

PM: NMG

Due Date: 09/26/22

CLIENT: GA-GA Power

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)	DG9A-250 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)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-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																												
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
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.

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92623226 and 92623277

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #47077R

Review Level: Tier II

Project: 30143607.3A

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92623226 and 92623277 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
YGWA-17S	92623226001 92623277001	Water	8/30/2022		X	X	X
YGWA-18S	92623226002 92623277002	Water	8/30/2022		X	X	X
YGWA-18I	92623226003 92623277003	Water	8/30/2022		X	X	X
GWA-2	92623226004 92623277004	Water	8/30/2022		X	X	X
YGWA-5I	92623226005 92623277005	Water	8/30/2022		X	X	X
YGWA-5D	92623226006 92623277006	Water	8/30/2022		X	X	X
YGWA-21I	92623226007 92623277007	Water	8/30/2022		X	X	X
YGWA-1D	92623226008 92623277008	Water	8/30/2022		X	X	X
YGWA-2I	92623226009 92623277009	Water	8/30/2022		X	X	X
YGWA-30I	92623226010 92623277010	Water	8/31/2022		X	X	X
YGWA-14S	92623226011 92623277011	Water	8/31/2022		X	X	X
YGWA-1L	92623226012 92623277012	Water	8/31/2022		X	X	X

Data Review Report

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-47	92623226013 92623277013	Water	8/31/2022		X	X	X
YGWA-4I	92623226014 92623277014	Water	8/31/2022		X	X	X
YGWA-20S	92623226015 92623277015	Water	8/31/2022		X	X	X
YGWA-3I	92623226016 92623277018	Water	8/31/2022		X	X	X
YGWA-3D	92623226017 92623277019	Water	8/31/2022		X	X	X
YGWA-39	92623226018 92623277016	Water	8/31/2022		X	X	X
YGWA-40	92623226019 92623277017	Water	8/31/2022		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.
4. pH analysis performed as a field measurement.

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) SM4500-H+ B and 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
GWA-2	Vanadium (MB)	Detected sample results <RL and <BAL	"UB" at the RL

Notes:

MB = Method 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 YWGA-17S in association with SW-846 6010D analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWA-18S in association with SW-846 6020B and SW-846 7470A analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed on sample location YGWA-5I in association with SW-846 6010D analysis exhibited recoveries outside of the acceptance limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWA-5I	Calcium	73%	AC (85%)

Note:

AC = Acceptable

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified. The qualifications are applied to all sample results associated with the sample preparation batch.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

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. 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.

A field duplicate sample was not collected in association with this SDG.

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	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
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
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
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.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

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 samples YGWA-18I and YGWA-20S 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 samples YGWA-17S, YGWA-5D, and YGWA-30I in association with TDS analysis exhibited an RPD or difference in the results 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.

A field duplicate sample was not collected in association with this SDG.

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: SM4500-H+ B, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
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 (± 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_{Sample} = uncertainty of the sample

U_{Blank} = 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 blank, 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 method blank at an activity greater than the uncertainty and MDC. The NAD was calculated for each sample. The Radium-228 results in samples YGWA-17S, YGWA-18S, YGWA-18I, GWA-2, YGWA-5I, YGWA-21I, YGWA-1D, YGWA-2I, and YGWA-3D were qualified as “J” since the NAD were less than 1.96. The Radium-228 results in sample YGWA-5D was qualified as “J” since the NAD was between 1.96 and 2.58. No qualifiers were assigned to the Radium-228 results in samples YGWA-30I, YGWA-14S, YGWA-1I, YGWA-47, YGWA-4I, YGWA-39, YGWA-40, and YGWA-3I 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 < ±3 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.
- x₀ = measured concentration of the unspiked sample.
- c = spike concentration added.

$u^2(x)$, $u^2(x_0)$, $u^2(c)$ = 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 ± 3 sigma. Warning limits have been established as ± 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 ± 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 ± 3 sigma. Warning limits have been established as ± 2 sigma.

The laboratory duplicate analysis performed on sample location YGWA-39 in association with SW-846 9315 analysis exhibited acceptable difference between the results.

The laboratory duplicate analysis performed on sample location YGWA-5D in association with SW-846 9320 analysis exhibited acceptable difference between the results.

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.

A field duplicate sample was not collected in association with this SDG.

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

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = 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:

- YGWA-17S, YGWA-18I, GWA-2 – Radium-226
- YGWA-41, YGWA-39, YGWA-3I – Radium-228

- YGWA-18S, YGWA-5I, YGWA-2I – Radium-226 and total Radium
- YGWA-47 – Radium-228 and total Radium
- YGWA-30I, YGWA-14S, YGWA-1I, YGWA-20S, YGWA-40 – 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	
Miscellaneous Instrumentation					
Tier II Validation					
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: 

DATE: November 8, 2022

PEER REVIEW: Dennis Capria

DATE: November 9, 2022

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:		Section B Required Project Information:		Section C Invoice Information:	
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.	
Address: Atlanta, GA		Copy To: Arcadis Contacts		Company Name:	
Email To: laucoker@southernco.com		Purchase Order #:		Address:	
Phone: 470.620.6176	Fax:	Project Name: Plant Yates Pooled Upgradient		Face Quote:	
Requested Due Date:		Project Number:		Face Project Manager: Nicole D'Oleo	
				Face 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 CODE <small>(see valid codes to left)</small>	CODE <small>(G=GRAB C=COMP)</small>	COLLECTED				SAMPLE TEMP AT COLLECTION	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)															
				START		END			# OF CONTAINERS	Preservatives							Analyzed Test	Y/N																	
				DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other																
1	YGWA-47	WG	G			-	-		5	2	3							X	X	X	X														pH:
2	GWA-2	WG	G			-	-		5	2	3								X	X	X	X	X												pH:
3	YGWA-4I	WG	G			-	-		5	2	3								X	X	X	X													pH:
4	YGWA-5I	WG	G	8/30/21	1052				5	2	3								X	X	X	X													pH: 5.00
5	YGWA-5D	WG	G	8/30/21	1205				5	2	3								X	X	X														pH: 7.40
6	YGWA-17S	WG	G			-	-		5	2	3								X	X	X	X													pH:
7	YGWA-18S	WG	G			-	-		5	2	3								X	X	X	X													pH:
8	YGWA-18I	WG	G			-	-		5	2	3								X	X	X	X													pH:
9	YGWA-20S	WG	G			-	-		5	2	3								X	X	X	X													pH:
10	YGWA-21I	WG	G	8/30/21	1430				5	2	3								X	X	X	X													pH: 6.58
11	YGWA-30I	WG	G			-	-		5	2	3								X	X	X	X													pH:
12	YGWA-14S	WG	G			-	-		5	2	3								X	X	X	X													pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>[Signature]</i> / Arcadis	8/31/21	1003	<i>Ryan Williams</i> / Arc	8/31/21	1003	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<i>Ryan Williams</i> / Arc	8/31/21	1153	<i>[Signature]</i>	8/31/21	1153	
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		TEMP in C
PRINT Name of SAMPLER: <i>Mark Chest</i>	DATE Signed: 8/31/21	
SIGNATURE of SAMPLER: <i>[Signature]</i>		Received on Ice (Y/N)
		Custody Sealed Cooler (Y/N)
		Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page : 1 Of 1
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Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.	
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:	
Email To: laucoker@southemco.com	Purchase Order #:	Address:	
Phone: 470.620.6176	Project Name: Plant Yates Pooled Upgradient	Pace Quote:	Regulatory Agency
Requested Due Date:	Project Number:	Pace Project Manager: Nicole D'Oleo	State / Location
		Pace Profile #: 10840	Georgia

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / . -) Sample Ids must be unique</small>	MATRIX CODE <small>(see valid codes to left)</small>	CODE DW WT WW P SL OL WP AR OT TS	MATRIX TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVATIVES							Y/N	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)									
					START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3		Methano	Other	App III / V Metals	Cl, F, SO4	TDS (2540C)	RAD 93159320	App I / II (gypsum only)										
					DATE	TIME	DATE	TIME																										
1	YGWA-39	WG	G																															pH:
2	YGWA-40	WG	G																															pH:
3	YGWA-1I	WG	G																															pH:
4	YGWA-1D	WG	G			8/30	1350																											pH: 7.2
5	YGWA-2I	WG	G			8-30	1000																											pH: 7.04
6	YGWA-3I	WG	G																															pH:
7	YGWA-3D	WG	G																															pH:
8																																		pH:
9																																		pH:
10																																		pH:
11																																		pH:
12																																		pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 602.0 (Cl, F, Sulfate)	Wheeler Carson / Arcadis	8/31/22	800	Ryan Williams / Pace	8/24/22	800	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	Wheeler Carson / Arcadis	8/31/22	1503	Ryan Williams / Pace	8/24/22	1003	
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)	Ryan Williams / Pace	8/31/22	1153	Ryan Williams / Pace	8/31/22	1153	

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on log (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:					
DATE Signed:					

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 Of 3

Section A

Required Client Information:
 Company: GA Power
 Address: Atlanta, GA
 Email To: laucocker@southernmco.com
 Phone: 470.620.6176 Fax
 Requested Due Date:

Section B

Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Purchase Order #:
 Project Name: Plant Yates Pooled Upgradient
 Project Number:

Section C

Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Nicole D'Oleo
 Pace Profile #: 10840

Regulatory Agency
 State / Location
 Georgia

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	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH:		
				DATE	START		END			TIME	UNPRESERVED	H2SO4	HN03	HCl	NaOH	Na2S2O3	Methanol					Other	
					TIME	DATE																	TIME
1	YGWA-39	WG	G						5	2	3					X	X	X	X				pH:
2	YGWA-40	WG	G						5	2	3					X	X	X	X				pH:
3	YGWA-1I	WG	G	9/31		0916			5	2	3					X	X	X	X				pH: 5.64
4	YGWA-1D	WG	G						5	2	3					X	X	X	X				pH:
5	YGWA-2I	WG	G						5	2	3					X	X	X	X				pH:
6	YGWA-3I	WG	G						5	2	3					X	X	X	X				pH:
7	YGWA-3D	WG	G						5	2	3					X	X	X	X				pH:
8																							pH:
9																							pH:
10																							pH:
11																							pH:
12																							pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>Khalil Carson / Arcadis</i>	9/1/22	0800	<i>Ryan Williams / Pace</i>	9/1/22	0800	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<i>Mike / Arcs</i>	9/1/22		<i>Ryan Williams / Pace</i>	9/1/22	0905	
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)	<i>Ryan Williams / Pace</i>	9/1/22	1056				

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	CUSTODY SABBED Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: <i>Khalil Carson</i>	SIGNATURE of SAMPLER: <i>KC</i>				

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A

Required Client Information:
 Company: GA Power
 Address: Atlanta, GA
 Email To: laucoker@southernco.com
 Phone: 470.620.6176 Fax
 Requested Due Date:

Section B

Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Purchase Order #:
 Project Name: Plant Yates Pooled Upgradient
 Project Number:

Section C

Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Nicole D'Oleo
 Pace Profile #: 10840

Regulatory Agency:
 State / Location:
 Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX CODE (see yield codes to left)	CODE DW WT WW P SL OK WP AR OT TS	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Requested Analysis (Based Y/N)							Residual Chlorine (Y/N)					
					START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	Analyses Test	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I/II (gypsum only)						
					DATE	TIME	DATE	TIME																							
1	YGWA-47	WG	G	G	8/31	0915	-	-		5	2	3																			pH: 5.32
2	GWA-2	WG	G							5	2	3																			pH:
3	YGWA-4I	WG	G							5	2	3																			pH:
4	YGWA-5I	WG	G							5	2	3																			pH:
5	YGWA-5D	WG	G							5	2	3																			pH:
6	YGWA-17S	WG	G							5	2	3																			pH:
7	YGWA-18S	WG	G							5	2	3																			pH:
8	YGWA-18I	WG	G							5	2	3																			pH:
9	YGWA-20S	WG	G							5	2	3																			pH:
10	YGWA-21I	WG	G							5	2	3																			pH:
11	YGWA-30I	WG	G							5	2	3																			pH:
12	YGWA-14S	WG	G							5	2	3																			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>JL</i> / Arcadis	9/1/22	0800	<i>W/Man</i> AS	9/1/22	0800	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<i>JL</i> / Arcadis	9/1/22		<i>Kyan William</i> / Pace	9/1/22	0905	
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)	<i>JL</i> / Arcadis	9/1/22	1055				

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Jake Swanson</i>						
SIGNATURE of SAMPLER: <i>JL</i>	DATE Signed: <i>9/1/22</i>					

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 of 2

Section A Required Client Information: Company: GA Power Address: Atlanta, GA Email To: laucocker@southernco.com Phone: 470.620.6176 Fax Requested Due Date:	Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Purchase Order #: Project Name: Plant Yates Pooled Upgradient Project Number:	Section C Invoice Information: Attention: Southern Co. Company Name: Address: Pace Quota: Pace Project Manager: Nicole D'Oleo Pace Profile #: 10840	Regulatory Agency: State / Location: Georgia
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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 Wipe WF 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	# OF CONTAINERS	Preservatives							Y/N	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	pH:					
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	Analysis Test	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I/II (ppysium only)							
						DATE	TIME	DATE	TIME																								
1	YGWA-47	WG	G		G						5	2	3																				
2	GWA-2	WG	G		G						5	2	3																				
3	YGWA-4I	WG	G		G	8/31	1537				5	2	3																				
4	YGWA-5I	WG	G		G						5	2	3																				
5	YGWA-5D	WG	G		G						5	2	3																				
6	YGWA-17S	WG	G		G						5	2	3																				
7	YGWA-18S	WG	G		G						5	2	3																				
8	YGWA-18I	WG	G		G						5	2	3																				
9	YGWA-20S	WG	G		G	8/31	1258				5	2	3																				
10	YGWA-21I	WG	G		G						5	2	3																				
11	YGWA-30I	WG	G		G						5	2	3																				
12	YGWA-14S	WG	G		G						5	2	3																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>Jessica Ware</i> / Arcadis	8/1/22	0800	<i>M. Williams</i> / Pace	8/1/22	0800	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<i>M. Williams</i> / Pace	9/1/22		<i>Bryan Williams</i> / Pace	9/1/22	0905	
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)	<i>Bryan Williams</i> / Pace	9/1/22	1055				

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <i>Jessica Ware</i> SIGNATURE of SAMPLER:		DATE Signed: <i>9/1/22</i>	TEMP in C Received on Ice (Y/N) COOLBOX Sealed Cooler (Y/N) Samples intact (Y/N)
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CHAIN-OF-CUSTODY / Analytical Request Document

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

4 32107
3726

Page :	4 of 2
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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
Email To:	laucoker@southernco.com	Purchase Order #:		Address:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Quote:	
Requested Due Date:		Project Number:		Pace Project Manager:	Nicole D'Oleo
				Pace Profile #:	10840

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL CL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives								Y/N	Analysis Test	App III / IV Metals Cl, F, SO4 TDS (2540C) RAD 93159320 App I / II (arsenium only)	Residual Chlorine (Y/N)	pH:			
						START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol						Other		
						DATE	TIME	DATE	TIME																	
1	YGWA-39	WG	G								5	2		3											pH:	
2	YGWA-40	WG	G								5	2		3												pH:
3	YGWA-11	WG	G								5	2		3												pH:
4	YGWA-1D	WG	G								5	2		3												pH:
5	YGWA-2I	WG	G								5	2		3												pH:
6	YGWA-3I	WG	G			8/31	1054				5	2		3										7.49	pH:	
7	YGWA-3D	WG	G			8/31	0930				5	2		3										7.65	pH:	
8																										pH:
9																										pH:
10																										pH:
11																										pH:
12																										pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate) App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V 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)	<i>Jessica Ware</i> / Arcadis <i>Kyan Williams</i> / Pace	9/1/22	0200	<i>M. Williams</i> / Arcadis <i>Kyan Williams</i> / Pace	9/1/22 9/1/22	0300 0905	

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	CUSHY Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Jessica Ware</i>	SIGNATURE of SAMPLER: <i>Jessica Ware</i>				
DATE Signed: <i>9/1/22</i>					

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

Section A

Required Client Information:

Company: **GA Power**
 Address: **Atlanta, GA**
 Email To: **laucoker@southernco.com**
 Phone: **470.620.6176** Fax
 Requested Due Date:

Section B

Required Project Information:

Report To: **SCS Contacts**
 Copy To: **Arcadis Contacts**
 Purchase Order #:
 Project Name: **Plant Yates Pooled Upgradient**
 Project Number:

Section C

Invoice Information:

Attention: **Southern Co.**
 Company Name:
 Address:
 Pace Quota:
 Pace Project Manager: **Nicole D'Oleo**
 Pace Profile #: **10840**

Regulatory Agency
 State / Location
Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	CODE Drinking Water DW Water WT Waste Water WW Product P Sol/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)		
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		Analytes Test		App III / IV Metals	Cl, F, SO4	TDS (2540C)		RAD 93159320	App I / II (ppysum only)
				DATE	TIME	DATE	TIME												App III / IV Metals	Cl, F, SO4						
1	YGWA-39	WG	G	8/31/22	1350	-	-	5	2	3							X	X	X	X					pH: 5.30	
2	YGWA-40	WG	G	8/31/22	1440	-	-	5	2	3							X	X	X	X					pH: 4.53	
3	YGWA-11	WG	G	-	-	-	-	5	2	3							X	X	X	X					pH:	
4	YGWA-1D	WG	G	-	-	-	-	5	2	3							X	X	X	X					pH:	
5	YGWA-2I	WG	G	-	-	-	-	5	2	3							X	X	X	X					pH:	
6	YGWA-3I	WG	G	-	-	-	-	5	2	3							X	X	X	X					pH:	
7	YGWA-3D	WG	G	-	-	-	-	5	2	3							X	X	X	X					pH:	
8				-	-	-	-																		pH:	
9				-	-	-	-																		pH:	
10				-	-	-	-																		pH:	
11				-	-	-	-																		pH:	
12				-	-	-	-																		pH:	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>[Signature]</i> / Arcadis	9/1/22		Ryan Williams / Pace	9/1/22	0905	
App III Metals: Boron 6020B, Ca 6010D. App VII 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	9/1/22	1055				
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		TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: <i>Mark Chest</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed: <i>9/1/22</i>				

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92623226	GWA-2	SW846 6020B	Vanadium	0.010	mg/L	UB	Blank contamination
	YGWA-5I	SW846 6010D	Calcium	2.5	mg/L	J	MS %R < LCL
	YGWA-5D	SW846 6010D	Calcium	24.8	mg/L	J	MS %R < LCL
	YGWA-21I	SW846 6010D	Calcium	7.3	mg/L	J	MS %R < LCL
	YGWA-1D	SW846 6010D	Calcium	14.9	mg/L	J	MS %R < LCL
	YGWA-2I	SW846 6010D	Calcium	25.4	mg/L	J	MS %R < LCL
	YGWA-30I	SW846 6010D	Calcium	1.3	mg/L	J	MS %R < LCL
	YGWA-14S	SW846 6010D	Calcium	1.3	mg/L	J	MS %R < LCL
	YGWA-1L	SW846 6010D	Calcium	1.9	mg/L	J	MS %R < LCL
	YGWA-47	SW846 6010D	Calcium	9.6	mg/L	J	MS %R < LCL
	YGWA-4I	SW846 6010D	Calcium	8.9	mg/L	J	MS %R < LCL
	YGWA-20S	SW846 6010D	Calcium	2.4	mg/L	J	MS %R < LCL
	YGWA-3I	SW846 6010D	Calcium	23.5	mg/L	J	MS %R < LCL
	YGWA-3D	SW846 6010D	Calcium	28.7	mg/L	J	MS %R < LCL
	YGWA-39	SW846 6010D	Calcium	16.3	mg/L	J	MS %R < LCL
YGWA-40	SW846 6010D	Calcium	6.2	mg/L	J	MS %R < LCL	
92623277	YGWA-17S	SW846 9320	Radium-228	0.964 +/- 0.357	pCi/L	J	Blank contamination
	YGWA-18S	SW846 9320	Radium-228	0.542 +/- 0.287	pCi/L	J	Blank contamination
	YGWA-18I	SW846 9320	Radium-228	0.961 +/- 0.372	pCi/L	J	Blank contamination
	GWA-2	SW846 9320	Radium-228	1.34 +/- 0.454	pCi/L	J	Blank contamination
	YGWA-5I	SW846 9320	Radium-228	0.644 +/- 0.326	pCi/L	J	Blank contamination
	YGWA-5D	SW846 9320	Radium-228	2.21 +/- 0.587	pCi/L	J	Blank contamination
	YGWA-21I	SW846 9320	Radium-228	0.959 +/- 0.367	pCi/L	J	Blank contamination
	YGWA-1D	SW846 9320	Radium-228	0.579 +/- 0.293	pCi/L	J	Blank contamination
	YGWA-2I	SW846 9320	Radium-228	0.612 +/- 0.309	pCi/L	J	Blank contamination
	YGWA-3D	SW846 9320	Radium-228	0.927 +/- 0.394	pCi/L	J	Blank contamination

Abbreviations:

%R = percent recovery
LCL = lower control limit
mg/L = milligrams per liter
MS = matrix spike
pCi/L = picoCuries per liter

Qualifiers:

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

October 04, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 31, 2022 and September 01, 2022. 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 - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power

Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623226001	YGWA-17S	Water	08/30/22 15:40	08/31/22 11:03
92623226002	YGWA-18S	Water	08/30/22 10:10	08/31/22 11:03
92623226003	YGWA-18I	Water	08/30/22 13:35	08/31/22 11:03
92623226004	GWA-2	Water	08/30/22 10:05	08/31/22 11:03
92623226005	YGWA-5I	Water	08/30/22 10:52	08/31/22 11:03
92623226006	YGWA-5D	Water	08/30/22 12:05	08/31/22 11:03
92623226007	YGWA-21I	Water	08/30/22 14:30	08/31/22 11:03
92623226008	YGWA-1D	Water	08/30/22 13:50	08/31/22 11:03
92623226009	YGWA-2I	Water	08/30/22 10:00	08/31/22 11:03
92623226010	YGWA-30I	Water	08/31/22 11:30	09/01/22 09:05
92623226011	YGWA-14S	Water	08/31/22 14:15	09/01/22 09:05
92623226012	YGWA-1I	Water	08/31/22 09:10	09/01/22 09:05
92623226013	YGWA-47	Water	08/31/22 09:15	09/01/22 09:05
92623226014	YGWA-4I	Water	08/31/22 15:37	09/01/22 09:05
92623226015	YGWA-20S	Water	08/31/22 12:57	09/01/22 09:05
92623226016	YGWA-3I	Water	08/31/22 10:54	09/01/22 09:05
92623226017	YGWA-3D	Water	08/31/22 09:30	09/01/22 09:05
92623226018	YGWA-39	Water	08/31/22 13:50	09/01/22 09:05
92623226019	YGWA-40	Water	08/31/22 16:40	09/01/22 09:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623226001	YGWA-17S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226002	YGWA-18S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226003	YGWA-18I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226004	GWA-2	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226005	YGWA-5I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226006	YGWA-5D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226007	YGWA-21I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226008	YGWA-1D	EPA 6010D	KH	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623226009	YGWA-2I	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92623226010	YGWA-30I	SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92623226011	YGWA-14S	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226012	YGWA-1I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
92623226013	YGWA-47	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
92623226014	YGWA-4I	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92623226015	YGWA-20S	SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623226016	YGWA-3I	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92623226017	YGWA-3D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92623226018	YGWA-39	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92623226019	YGWA-40	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92623226001	YGWA-17S					
	Performed by	Customer			08/31/22 15:58	
	pH	4.68	Std. Units		08/31/22 15:58	
EPA 6010D	Calcium	3.0	mg/L	1.0	09/12/22 21:17	
EPA 6020B	Barium	0.017	mg/L	0.0050	09/13/22 20:15	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	09/13/22 20:15	
EPA 6020B	Boron	0.013J	mg/L	0.040	09/13/22 20:15	
SM 2540C-2015	Total Dissolved Solids	81.0	mg/L	25.0	09/02/22 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	12.0	mg/L	1.0	09/08/22 01:38	
EPA 300.0 Rev 2.1 1993	Sulfate	4.7	mg/L	1.0	09/08/22 01:38	
92623226002	YGWA-18S					
	Performed by	Customer			08/31/22 15:58	
	pH	5.18	Std. Units		08/31/22 15:58	
EPA 6010D	Calcium	0.77J	mg/L	1.0	09/12/22 21:36	
EPA 6020B	Barium	0.012	mg/L	0.0050	09/16/22 15:01	
EPA 6020B	Beryllium	0.000082J	mg/L	0.00050	09/15/22 20:19	
EPA 6020B	Boron	0.014J	mg/L	0.040	09/15/22 20:19	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	09/15/22 20:19	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	09/15/22 20:19	
SM 2540C-2015	Total Dissolved Solids	52.0	mg/L	25.0	09/02/22 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	09/08/22 01:52	
EPA 300.0 Rev 2.1 1993	Sulfate	1.3	mg/L	1.0	09/08/22 01:52	
92623226003	YGWA-18I					
	Performed by	Customer			08/31/22 15:59	
	pH	5.82	Std. Units		08/31/22 15:59	
EPA 6010D	Calcium	5.7	mg/L	1.0	09/12/22 21:41	
EPA 6020B	Barium	0.017	mg/L	0.0050	09/15/22 20:43	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	09/15/22 20:43	
SM 2540C-2015	Total Dissolved Solids	100	mg/L	25.0	09/02/22 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	7.9	mg/L	1.0	09/08/22 02:06	
EPA 300.0 Rev 2.1 1993	Sulfate	0.78J	mg/L	1.0	09/08/22 02:06	
92623226004	GWA-2					
	Performed by	Customer			08/31/22 15:59	
	pH	5.39	Std. Units		08/31/22 15:59	
EPA 6010D	Calcium	23.5	mg/L	1.0	09/12/22 21:55	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Barium	0.031	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Cobalt	0.075	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	09/15/22 20:49	
EPA 6020B	Nickel	0.015	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Vanadium	0.0026J	mg/L	0.010	09/15/22 20:49	B
EPA 6020B	Zinc	0.011	mg/L	0.010	09/15/22 20:49	
SM 2540C-2015	Total Dissolved Solids	244	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	09/08/22 02:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.086J	mg/L	0.10	09/08/22 02:48	
EPA 300.0 Rev 2.1 1993	Sulfate	101	mg/L	2.0	09/08/22 07:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92623226005	YGWA-5I					
	Performed by	Customer			08/31/22 16:00	
	pH	5.00	Std. Units		08/31/22 16:00	
EPA 6010D	Calcium	2.5	mg/L	1.0	09/14/22 18:34	M1
EPA 6020B	Barium	0.017	mg/L	0.0050	09/15/22 20:55	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	09/15/22 20:55	
SM 2540C-2015	Total Dissolved Solids	86.0	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	09/08/22 03:02	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	09/08/22 03:02	
92623226006	YGWA-5D					
	Performed by	Customer			08/31/22 16:00	
	pH	7.40	Std. Units		08/31/22 16:00	
EPA 6010D	Calcium	24.8	mg/L	1.0	09/14/22 18:53	
EPA 6020B	Arsenic	0.0031J	mg/L	0.0050	09/15/22 21:01	
EPA 6020B	Barium	0.0079	mg/L	0.0050	09/15/22 21:01	
EPA 6020B	Boron	0.0098J	mg/L	0.040	09/15/22 21:01	
EPA 6020B	Lithium	0.0068J	mg/L	0.030	09/15/22 21:01	
EPA 6020B	Molybdenum	0.00089J	mg/L	0.010	09/15/22 21:01	
SM 2540C-2015	Total Dissolved Solids	148	mg/L	25.0	09/06/22 14:51	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	09/08/22 03:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	09/08/22 03:44	
EPA 300.0 Rev 2.1 1993	Sulfate	5.7	mg/L	1.0	09/08/22 03:44	
92623226007	YGWA-21I					
	Performed by	Customer			08/31/22 16:00	
	pH	6.58	Std. Units		08/31/22 16:00	
EPA 6010D	Calcium	7.3	mg/L	1.0	09/14/22 18:58	
EPA 6020B	Antimony	0.0046	mg/L	0.0030	09/15/22 21:19	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	09/15/22 21:19	
EPA 6020B	Barium	0.0085	mg/L	0.0050	09/15/22 21:19	
EPA 6020B	Boron	0.012J	mg/L	0.040	09/15/22 21:19	
EPA 6020B	Cobalt	0.0066	mg/L	0.0050	09/15/22 21:19	
EPA 6020B	Lithium	0.0079J	mg/L	0.030	09/15/22 21:19	
SM 2540C-2015	Total Dissolved Solids	122	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	09/08/22 03:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	09/08/22 03:58	
EPA 300.0 Rev 2.1 1993	Sulfate	3.2	mg/L	1.0	09/08/22 03:58	
92623226008	YGWA-1D					
	Performed by	Customer			08/31/22 16:01	
	pH	7.2	Std. Units		08/31/22 16:01	
EPA 6010D	Calcium	14.9	mg/L	1.0	09/14/22 19:12	
EPA 6020B	Barium	0.0066	mg/L	0.0050	09/15/22 21:25	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	09/15/22 21:25	
EPA 6020B	Lithium	0.013J	mg/L	0.030	09/15/22 21:25	
EPA 6020B	Molybdenum	0.0094J	mg/L	0.010	09/15/22 21:25	
SM 2540C-2015	Total Dissolved Solids	116	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	09/08/22 04:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.093J	mg/L	0.10	09/08/22 04:12	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92623226008	YGWA-1D					
EPA 300.0 Rev 2.1 1993	Sulfate	10.2	mg/L	1.0	09/08/22 04:12	
92623226009	YGWA-2I					
	Performed by	Customer			08/31/22 16:01	
	pH	7.04	Std. Units		08/31/22 16:01	
EPA 6010D	Calcium	25.4	mg/L	1.0	09/14/22 19:17	
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	09/15/22 21:31	
EPA 6020B	Barium	0.0030J	mg/L	0.0050	09/15/22 21:31	
EPA 6020B	Lithium	0.0044J	mg/L	0.030	09/15/22 21:31	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010	09/15/22 21:31	
SM 2540C-2015	Total Dissolved Solids	153	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	09/08/22 04:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	09/08/22 04:26	
EPA 300.0 Rev 2.1 1993	Sulfate	20.1	mg/L	1.0	09/08/22 04:26	
92623226010	YGWA-30I					
	Performed by	Customer			09/02/22 10:43	
	pH	5.87	Std. Units		09/02/22 10:43	
EPA 6010D	Calcium	1.3	mg/L	1.0	09/14/22 19:22	
EPA 6020B	Barium	0.0068	mg/L	0.0050	09/15/22 21:37	
EPA 6020B	Cobalt	0.0040J	mg/L	0.0050	09/15/22 21:37	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	09/15/22 21:37	
SM 2540C-2015	Total Dissolved Solids	33.0	mg/L	25.0	09/05/22 13:00	D6
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	09/08/22 17:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	09/08/22 17:05	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	09/08/22 17:05	
92623226011	YGWA-14S					
	Performed by	Customer			09/02/22 10:45	
	pH	5.15	Std. Units		09/02/22 10:45	
EPA 6010D	Calcium	1.3	mg/L	1.0	09/14/22 19:27	
EPA 6020B	Barium	0.0075	mg/L	0.0050	09/16/22 15:19	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	09/16/22 15:19	
EPA 6020B	Boron	0.015J	mg/L	0.040	09/16/22 15:19	
SM 2540C-2015	Total Dissolved Solids	51.0	mg/L	25.0	09/05/22 13:00	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	09/08/22 17:47	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	09/08/22 17:47	
EPA 300.0 Rev 2.1 1993	Sulfate	5.8	mg/L	1.0	09/08/22 17:47	
92623226012	YGWA-1I					
	Performed by	Customer			09/02/22 10:45	
	pH	5.64	Std. Units		09/02/22 10:45	
EPA 6010D	Calcium	1.9	mg/L	1.0	09/14/22 19:31	
EPA 6020B	Barium	0.0074	mg/L	0.0050	09/16/22 15:25	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	09/16/22 15:25	
EPA 6020B	Molybdenum	0.0055J	mg/L	0.010	09/16/22 15:25	
SM 2540C-2015	Total Dissolved Solids	46.0	mg/L	25.0	09/05/22 13:00	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	09/08/22 18:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	09/08/22 18:01	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92623226012	YGWA-1I					
EPA 300.0 Rev 2.1 1993	Sulfate	4.8	mg/L	1.0	09/08/22 18:01	
92623226013	YGWA-47					
	Performed by	Customer			09/02/22 10:45	
	pH	5.32	Std. Units		09/02/22 10:45	
EPA 6010D	Calcium	9.6	mg/L	1.0	09/14/22 19:36	
EPA 6020B	Barium	0.029	mg/L	0.0050	09/16/22 15:30	
EPA 6020B	Boron	0.0091J	mg/L	0.040	09/16/22 15:30	
EPA 6020B	Cobalt	0.00096J	mg/L	0.0050	09/16/22 15:30	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	09/16/22 15:30	
SM 2540C-2015	Total Dissolved Solids	116	mg/L	25.0	09/05/22 13:00	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	09/08/22 18:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	09/08/22 18:15	
EPA 300.0 Rev 2.1 1993	Sulfate	48.0	mg/L	1.0	09/08/22 18:15	
92623226014	YGWA-4I					
	Performed by	Customer			09/02/22 10:46	
	pH	5.50	Std. Units		09/02/22 10:46	
EPA 6010D	Calcium	8.9	mg/L	1.0	09/14/22 19:41	
EPA 6020B	Barium	0.013	mg/L	0.0050	09/16/22 15:36	
EPA 6020B	Lithium	0.013J	mg/L	0.030	09/16/22 15:36	
SM 2540C-2015	Total Dissolved Solids	92.0	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	09/08/22 18:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	09/08/22 18:29	
EPA 300.0 Rev 2.1 1993	Sulfate	8.0	mg/L	1.0	09/08/22 18:29	
92623226015	YGWA-20S					
	Performed by	Customer			09/02/22 10:46	
	pH	5.38	Std. Units		09/02/22 10:46	
EPA 6010D	Calcium	2.4	mg/L	1.0	09/14/22 19:46	
EPA 6020B	Barium	0.011	mg/L	0.0050	09/15/22 22:07	
SM 2540C-2015	Total Dissolved Solids	62.0	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	09/08/22 18:43	
92623226016	YGWA-3I					
	Performed by	Customer			09/02/22 10:47	
	pH	7.49	Std. Units		09/02/22 10:47	
EPA 6010D	Calcium	23.5	mg/L	1.0	09/14/22 19:50	
EPA 6020B	Barium	0.0030J	mg/L	0.0050	09/15/22 22:12	
EPA 6020B	Lithium	0.022J	mg/L	0.030	09/16/22 15:48	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010	09/15/22 22:12	
SM 2540C-2015	Total Dissolved Solids	137	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	09/08/22 19:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	09/08/22 19:24	
EPA 300.0 Rev 2.1 1993	Sulfate	13.9	mg/L	1.0	09/08/22 19:24	
92623226017	YGWA-3D					
	Performed by	Customer			09/02/22 10:47	
	pH	7.65	Std. Units		09/02/22 10:47	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92623226017	YGWA-3D					
EPA 6010D	Calcium	28.7	mg/L	1.0	09/14/22 20:05	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	09/15/22 22:30	
EPA 6020B	Barium	0.0048J	mg/L	0.0050	09/15/22 22:30	
EPA 6020B	Lithium	0.021J	mg/L	0.030	09/15/22 22:30	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	09/15/22 22:30	
SM 2540C-2015	Total Dissolved Solids	141	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	09/08/22 19:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.42	mg/L	0.10	09/08/22 19:38	
EPA 300.0 Rev 2.1 1993	Sulfate	6.9	mg/L	1.0	09/08/22 19:38	
92623226018	YGWA-39					
	Performed by	Customer			09/02/22 10:47	
	pH	5.30	Std. Units		09/02/22 10:47	
EPA 6010D	Calcium	16.3	mg/L	1.0	09/14/22 20:09	
EPA 6020B	Arsenic	0.0029J	mg/L	0.0050	09/15/22 22:36	
EPA 6020B	Barium	0.035	mg/L	0.0050	09/15/22 22:36	
EPA 6020B	Boron	0.14	mg/L	0.040	09/15/22 22:36	
EPA 6020B	Cadmium	0.00044J	mg/L	0.00050	09/15/22 22:36	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	09/15/22 22:36	
EPA 6020B	Lithium	0.0065J	mg/L	0.030	09/15/22 22:36	
EPA 6020B	Molybdenum	0.0036J	mg/L	0.010	09/15/22 22:36	
SM 2540C-2015	Total Dissolved Solids	242	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	mg/L	1.0	09/08/22 19:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	09/08/22 19:52	
EPA 300.0 Rev 2.1 1993	Sulfate	10.9	mg/L	1.0	09/08/22 19:52	
92623226019	YGWA-40					
	Performed by	Customer			09/02/22 10:47	
	pH	4.53	Std. Units		09/02/22 10:47	
EPA 6010D	Calcium	6.2	mg/L	1.0	09/14/22 20:14	
EPA 6020B	Barium	0.035	mg/L	0.0050	09/15/22 22:42	
EPA 6020B	Beryllium	0.00025J	mg/L	0.00050	09/15/22 22:42	
EPA 6020B	Boron	0.062	mg/L	0.040	09/15/22 22:42	
EPA 7470A	Mercury	0.00064	mg/L	0.00020	09/16/22 12:13	
SM 2540C-2015	Total Dissolved Solids	92.0	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	09/08/22 20:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	09/08/22 20:34	
EPA 300.0 Rev 2.1 1993	Sulfate	17.9	mg/L	1.0	09/08/22 20:34	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-17S		Lab ID: 92623226001		Collected: 08/30/22 15:40		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 15:58		
pH	4.68	Std. Units			1		08/31/22 15:58		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	3.0	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:17	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/12/22 18:08	09/13/22 20:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 18:08	09/13/22 20:15	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	09/12/22 18:08	09/13/22 20:15	7440-39-3	
Beryllium	0.00010J	mg/L	0.00050	0.000054	1	09/12/22 18:08	09/13/22 20:15	7440-41-7	
Boron	0.013J	mg/L	0.040	0.0086	1	09/12/22 18:08	09/13/22 20:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 18:08	09/13/22 20:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/22 18:08	09/13/22 20:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 18:08	09/13/22 20:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 18:08	09/13/22 20:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/12/22 18:08	09/13/22 20:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 18:08	09/13/22 20:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 18:08	09/13/22 20:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 18:08	09/13/22 20:15	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	81.0	mg/L	25.0	10.0	1		09/02/22 11:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	12.0	mg/L	1.0	0.60	1		09/08/22 01:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 01:38	16984-48-8	
Sulfate	4.7	mg/L	1.0	0.50	1		09/08/22 01:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-18S		Lab ID: 92623226002		Collected: 08/30/22 10:10		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 15:58		
pH	5.18	Std. Units			1		08/31/22 15:58		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	0.77J	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:36	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 20:19	7440-38-2	
Barium	0.012	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:01	7440-39-3	
Beryllium	0.00082J	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 20:19	7440-41-7	
Boron	0.014J	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 20:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:19	7440-43-9	
Chromium	0.0015J	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 20:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 20:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:19	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 20:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:19	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	52.0	mg/L	25.0	10.0	1		09/02/22 11:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.0	mg/L	1.0	0.60	1		09/08/22 01:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 01:52	16984-48-8	
Sulfate	1.3	mg/L	1.0	0.50	1		09/08/22 01:52	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Sample: YGWA-181		Lab ID: 92623226003		Collected: 08/30/22 13:35		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 15:59		
pH	5.82	Std. Units			1		08/31/22 15:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.7	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:41	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 20:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:07	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 20:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 20:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 20:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:43	7439-92-1	
Lithium	0.0036J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 20:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:43	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:20	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	100	mg/L	25.0	10.0	1		09/02/22 11:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	7.9	mg/L	1.0	0.60	1		09/08/22 02:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 02:06	16984-48-8	
Sulfate	0.78J	mg/L	1.0	0.50	1		09/08/22 02:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: GWA-2 Lab ID: 92623226004 Collected: 08/30/22 10:05 Received: 08/31/22 11:03 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 15:59		
pH	5.39	Std. Units			1		08/31/22 15:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	23.5	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:55	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 20:49	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 20:49	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 20:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 20:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 20:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 20:49	7440-47-3	
Cobalt	0.075	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 20:49	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/13/22 18:29	09/15/22 20:49	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:49	7439-92-1	
Lithium	0.0025J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 20:49	7439-98-7	
Nickel	0.015	mg/L	0.0050	0.00071	1	09/13/22 18:29	09/15/22 20:49	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 20:49	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/13/22 18:29	09/15/22 20:49	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:49	7440-28-0	
Vanadium	0.0026J	mg/L	0.010	0.0019	1	09/13/22 18:29	09/15/22 20:49	7440-62-2	B
Zinc	0.011	mg/L	0.010	0.0070	1	09/13/22 18:29	09/15/22 20:49	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:23	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	244	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.3	mg/L	1.0	0.60	1		09/08/22 02:48	16887-00-6	
Fluoride	0.086J	mg/L	0.10	0.050	1		09/08/22 02:48	16984-48-8	
Sulfate	101	mg/L	2.0	1.0	2		09/08/22 07:36	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-5I		Lab ID: 92623226005		Collected: 08/30/22 10:52		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:00		
pH	5.00	Std. Units			1		08/31/22 16:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.5	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 18:34	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 20:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 20:55	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 20:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 20:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 20:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:55	7439-92-1	
Lithium	0.0035J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 20:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 20:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:31	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	86.0	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.4	mg/L	1.0	0.60	1		09/08/22 03:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 03:02	16984-48-8	
Sulfate	2.4	mg/L	1.0	0.50	1		09/08/22 03:02	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-5D		Lab ID: 92623226006		Collected: 08/30/22 12:05		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:00		
pH	7.40	Std. Units			1		08/31/22 16:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	24.8	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 18:53	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:01	7440-36-0	
Arsenic	0.0031J	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:01	7440-38-2	
Barium	0.0079	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:01	7440-41-7	
Boron	0.0098J	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:01	7439-92-1	
Lithium	0.0068J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:01	7439-93-2	
Molybdenum	0.00089J	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	148	mg/L	25.0	10.0	1		09/06/22 14:51		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.5	mg/L	1.0	0.60	1		09/08/22 03:44	16887-00-6	
Fluoride	0.085J	mg/L	0.10	0.050	1		09/08/22 03:44	16984-48-8	
Sulfate	5.7	mg/L	1.0	0.50	1		09/08/22 03:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-211		Lab ID: 92623226007		Collected: 08/30/22 14:30		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:00		
pH	6.58	Std. Units			1		08/31/22 16:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	7.3	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 18:58	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0046	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:19	7440-36-0	
Arsenic	0.0022J	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:19	7440-38-2	
Barium	0.0085	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:19	7440-41-7	
Boron	0.012J	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:19	7440-47-3	
Cobalt	0.0066	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:19	7439-92-1	
Lithium	0.0079J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:19	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:36	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	122	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.4	mg/L	1.0	0.60	1		09/08/22 03:58	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		09/08/22 03:58	16984-48-8	
Sulfate	3.2	mg/L	1.0	0.50	1		09/08/22 03:58	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-1D		Lab ID: 92623226008		Collected: 08/30/22 13:50		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:01		
pH	7.2	Std. Units			1		08/31/22 16:01		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	14.9	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:12	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:25	7440-38-2	
Barium	0.0066	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:25	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:25	7440-43-9	
Chromium	0.0011J	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:25	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:25	7439-93-2	
Molybdenum	0.0094J	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:39	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	116	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.3	mg/L	1.0	0.60	1		09/08/22 04:12	16887-00-6	
Fluoride	0.093J	mg/L	0.10	0.050	1		09/08/22 04:12	16984-48-8	
Sulfate	10.2	mg/L	1.0	0.50	1		09/08/22 04:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-2I		Lab ID: 92623226009		Collected: 08/30/22 10:00		Received: 08/31/22 11:03		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		08/31/22 16:01		
pH	7.04	Std. Units			1		08/31/22 16:01		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	25.4	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:17	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:31	7440-36-0	
Arsenic	0.0027J	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:31	7440-38-2	
Barium	0.0030J	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:31	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:31	7439-92-1	
Lithium	0.0044J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:31	7439-93-2	
Molybdenum	0.0068J	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:31	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:41	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	153	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.2	mg/L	1.0	0.60	1		09/08/22 04:26	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		09/08/22 04:26	16984-48-8	
Sulfate	20.1	mg/L	1.0	0.50	1		09/08/22 04:26	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-30I		Lab ID: 92623226010		Collected: 08/31/22 11:30		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:43		
pH	5.87	Std. Units			1		09/02/22 10:43		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.3	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:22	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:37	7440-38-2	
Barium	0.0068	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:37	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:37	7440-47-3	
Cobalt	0.0040J	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:37	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:37	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:44	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	33.0	mg/L	25.0	10.0	1		09/05/22 13:00		D6
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.8	mg/L	1.0	0.60	1		09/08/22 17:05	16887-00-6	
Fluoride	0.060J	mg/L	0.10	0.050	1		09/08/22 17:05	16984-48-8	
Sulfate	1.1	mg/L	1.0	0.50	1		09/08/22 17:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-14S		Lab ID: 92623226011		Collected: 08/31/22 14:15		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:45		
pH	5.15	Std. Units			1		09/02/22 10:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.3	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:27	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:43	7440-38-2	
Barium	0.0075	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:19	7440-39-3	
Beryllium	0.00020J	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:19	7440-41-7	
Boron	0.015J	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:43	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:46	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	51.0	mg/L	25.0	10.0	1		09/05/22 13:00		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.6	mg/L	1.0	0.60	1		09/08/22 17:47	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		09/08/22 17:47	16984-48-8	
Sulfate	5.8	mg/L	1.0	0.50	1		09/08/22 17:47	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-11		Lab ID: 92623226012		Collected: 08/31/22 09:10		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:45		
pH	5.64	Std. Units			1		09/02/22 10:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.9	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:31	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:25	7440-38-2	
Barium	0.0074	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:25	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	09/13/22 18:29	09/17/22 03:08	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	09/13/22 18:29	09/17/22 03:08	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:25	7440-47-3	
Cobalt	0.00085J	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:49	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	09/13/22 18:29	09/17/22 03:08	7439-93-2	
Molybdenum	0.0055J	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:49	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	46.0	mg/L	25.0	10.0	1		09/05/22 13:00		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.5	mg/L	1.0	0.60	1		09/08/22 18:01	16887-00-6	
Fluoride	0.065J	mg/L	0.10	0.050	1		09/08/22 18:01	16984-48-8	
Sulfate	4.8	mg/L	1.0	0.50	1		09/08/22 18:01	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-47		Lab ID: 92623226013		Collected: 08/31/22 09:15		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:45		
pH	5.32	Std. Units			1		09/02/22 10:45		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	9.6	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:36	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:30	7440-38-2	
Barium	0.029	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:30	7440-41-7	
Boron	0.0091J	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:30	7440-47-3	
Cobalt	0.00096J	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:55	7439-92-1	
Lithium	0.0037J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:52	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	116	mg/L	25.0	10.0	1		09/05/22 13:00		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.5	mg/L	1.0	0.60	1		09/08/22 18:15	16887-00-6	
Fluoride	0.065J	mg/L	0.10	0.050	1		09/08/22 18:15	16984-48-8	
Sulfate	48.0	mg/L	1.0	0.50	1		09/08/22 18:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Sample: YGWA-4I **Lab ID: 92623226014** Collected: 08/31/22 15:37 Received: 09/01/22 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	Customer				1		09/02/22 10:46		
pH	5.50	Std. Units			1		09/02/22 10:46		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	8.9	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:41	7440-70-2	
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6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:36	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:36	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:01	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:01	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:00	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	92.0	mg/L	25.0	10.0	1		09/05/22 13:01		
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	4.4	mg/L	1.0	0.60	1		09/08/22 18:29	16887-00-6	
Fluoride	0.061J	mg/L	0.10	0.050	1		09/08/22 18:29	16984-48-8	
Sulfate	8.0	mg/L	1.0	0.50	1		09/08/22 18:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-20S		Lab ID: 92623226015		Collected: 08/31/22 12:57		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:46		
pH	5.38	Std. Units			1		09/02/22 10:46		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.4	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:46	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:42	7440-38-2	
Barium	0.011	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:07	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	09/13/22 18:29	09/17/22 03:14	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	09/13/22 18:29	09/17/22 03:14	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/16/22 15:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/16/22 15:42	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:07	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:02	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	62.0	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.9	mg/L	1.0	0.60	1		09/08/22 18:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 18:43	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/08/22 18:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-3I		Lab ID: 92623226016		Collected: 08/31/22 10:54		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:47		
pH	7.49	Std. Units			1		09/02/22 10:47		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	23.5	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:50	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 22:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:12	7440-38-2	
Barium	0.0030J	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:48	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:12	7439-92-1	
Lithium	0.022J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:48	7439-93-2	
Molybdenum	0.0068J	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:05	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	137	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.3	mg/L	1.0	0.60	1		09/08/22 19:24	16887-00-6	
Fluoride	0.13	mg/L	0.10	0.050	1		09/08/22 19:24	16984-48-8	
Sulfate	13.9	mg/L	1.0	0.50	1		09/08/22 19:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-3D		Lab ID: 92623226017		Collected: 08/31/22 09:30		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:47		
pH	7.65	Std. Units			1		09/02/22 10:47		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	28.7	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 20:05	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 22:30	7440-36-0	
Arsenic	0.0028J	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:30	7440-38-2	
Barium	0.0048J	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 22:30	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 22:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:30	7439-92-1	
Lithium	0.021J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:30	7439-93-2	
Molybdenum	0.011	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:30	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:07	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	141	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.3	mg/L	1.0	0.60	1		09/08/22 19:38	16887-00-6	
Fluoride	0.42	mg/L	0.10	0.050	1		09/08/22 19:38	16984-48-8	
Sulfate	6.9	mg/L	1.0	0.50	1		09/08/22 19:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-39		Lab ID: 92623226018		Collected: 08/31/22 13:50		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:47		
pH	5.30	Std. Units			1		09/02/22 10:47		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	16.3	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 20:09	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 22:36	7440-36-0	
Arsenic	0.0029J	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:36	7440-38-2	
Barium	0.035	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 22:36	7440-41-7	
Boron	0.14	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 22:36	7440-42-8	
Cadmium	0.00044J	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:36	7440-47-3	
Cobalt	0.00085J	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:36	7439-92-1	
Lithium	0.0065J	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:36	7439-93-2	
Molybdenum	0.0036J	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:36	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:10	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	242	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.7	mg/L	1.0	0.60	1		09/08/22 19:52	16887-00-6	
Fluoride	0.065J	mg/L	0.10	0.050	1		09/08/22 19:52	16984-48-8	
Sulfate	10.9	mg/L	1.0	0.50	1		09/08/22 19:52	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-40		Lab ID: 92623226019		Collected: 08/31/22 16:40		Received: 09/01/22 09:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		09/02/22 10:47		
pH	4.53	Std. Units			1		09/02/22 10:47		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	6.2	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 20:14	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 22:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:42	7440-38-2	
Barium	0.035	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:42	7440-39-3	
Beryllium	0.00025J	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 22:42	7440-41-7	
Boron	0.062	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 22:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:42	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:42	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00064	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	92.0	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.3	mg/L	1.0	0.60	1		09/08/22 20:34	16887-00-6	
Fluoride	0.050J	mg/L	0.10	0.050	1		09/08/22 20:34	16984-48-8	
Sulfate	17.9	mg/L	1.0	0.50	1		09/08/22 20:34	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 722758 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004

METHOD BLANK: 3765944 Matrix: Water
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/12/22 21:07	

LABORATORY CONTROL SAMPLE: 3765945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765946 3765947

Parameter	Units	3765946		3765947		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623226001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	3.0	1	1	4.0	4.1	96	107	75-125	3	20

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 DATA

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

QC Batch: 723071

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3767576

Matrix: Water

Associated Lab Samples: 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/14/22 18:24	

LABORATORY CONTROL SAMPLE: 3767577

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: 3767578 3767579

Parameter	Units	3767578		3767579		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	2.5	1	1	3.3	3.4	73	85	75-125	4	20 M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 722711 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623226001

METHOD BLANK: 3765581 Matrix: Water
Associated Lab Samples: 92623226001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00086J	0.0030	0.00078	09/13/22 18:33	
Arsenic	mg/L	ND	0.0050	0.0022	09/13/22 18:33	
Barium	mg/L	ND	0.0050	0.00067	09/13/22 18:33	
Beryllium	mg/L	ND	0.00050	0.000054	09/13/22 18:33	
Boron	mg/L	ND	0.040	0.0086	09/13/22 18:33	
Cadmium	mg/L	ND	0.00050	0.00011	09/13/22 18:33	
Chromium	mg/L	ND	0.0050	0.0011	09/13/22 18:33	
Cobalt	mg/L	ND	0.0050	0.00039	09/13/22 18:33	
Lead	mg/L	ND	0.0010	0.00089	09/13/22 18:33	
Lithium	mg/L	ND	0.030	0.00073	09/13/22 18:33	
Molybdenum	mg/L	ND	0.010	0.00074	09/13/22 18:33	
Selenium	mg/L	ND	0.0050	0.0014	09/13/22 18:33	
Thallium	mg/L	ND	0.0010	0.00018	09/13/22 18:33	

LABORATORY CONTROL SAMPLE: 3765582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765583 3765584

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92622406019	Result	Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.1	0.11	0.11	111	109	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.1	0.10	0.10	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765583 3765584													
Parameter	Units	92622406019		MS		MSD		MS		MSD			
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec	Limits	Max		
											RPD	RPD	Qual
Barium	mg/L	0.064	0.1	0.1	0.17	0.17	108	103	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20		
Boron	mg/L	0.18	1	1	1.2	1.2	101	99	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	98	99	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	1	20		
Cobalt	mg/L	0.0012J	0.1	0.1	0.099	0.099	98	97	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20		
Lithium	mg/L	0.0013J	0.1	0.1	0.096	0.099	94	97	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	106	103	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.097	0.097	97	96	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20		

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 723035 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3767331 Matrix: Water
Associated Lab Samples: 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/15/22 20:07	
Arsenic	mg/L	ND	0.0050	0.0022	09/15/22 20:07	
Barium	mg/L	ND	0.0050	0.00067	09/15/22 20:07	
Beryllium	mg/L	ND	0.00050	0.000054	09/15/22 20:07	
Boron	mg/L	ND	0.040	0.0086	09/15/22 20:07	
Cadmium	mg/L	ND	0.00050	0.00011	09/15/22 20:07	
Chromium	mg/L	ND	0.0050	0.0011	09/15/22 20:07	
Cobalt	mg/L	ND	0.0050	0.00039	09/15/22 20:07	
Copper	mg/L	ND	0.0050	0.0010	09/15/22 20:07	
Lead	mg/L	ND	0.0010	0.00089	09/15/22 20:07	
Lithium	mg/L	ND	0.030	0.00073	09/15/22 20:07	
Molybdenum	mg/L	ND	0.010	0.00074	09/15/22 20:07	
Nickel	mg/L	ND	0.0050	0.00071	09/15/22 20:07	
Selenium	mg/L	ND	0.0050	0.0014	09/15/22 20:07	
Silver	mg/L	ND	0.0050	0.00044	09/15/22 20:07	
Thallium	mg/L	ND	0.0010	0.00018	09/15/22 20:07	
Vanadium	mg/L	0.0021J	0.010	0.0019	09/15/22 20:07	
Zinc	mg/L	ND	0.010	0.0070	09/15/22 20:07	

LABORATORY CONTROL SAMPLE: 3767332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Copper	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	
Nickel	mg/L	0.1	0.097	97	80-120	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

LABORATORY CONTROL SAMPLE: 3767332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.094	94	80-120	
Silver	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	
Vanadium	mg/L	0.1	0.10	105	80-120	
Zinc	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3767333 3767334

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623226002 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.093	0.10	92	100	75-125	8	20
Arsenic	mg/L	ND	0.1	0.1	0.096	0.098	95	97	75-125	3	20
Barium	mg/L	0.012	0.1	0.1	0.097	0.11	85	94	75-125	9	20
Beryllium	mg/L	0.000082J	0.1	0.1	0.095	0.095	95	95	75-125	0	20
Boron	mg/L	0.014J	1	1	0.96	0.98	94	96	75-125	2	20
Cadmium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20
Chromium	mg/L	0.0015J	0.1	0.1	0.097	0.096	95	94	75-125	1	20
Cobalt	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20
Copper	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20
Lead	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20
Lithium	mg/L	0.0014J	0.1	0.1	0.097	0.10	96	98	75-125	3	20
Molybdenum	mg/L	ND	0.1	0.1	0.087	0.094	87	94	75-125	8	20
Nickel	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20
Selenium	mg/L	ND	0.1	0.1	0.090	0.093	90	93	75-125	3	20
Silver	mg/L	ND	0.1	0.1	0.084	0.091	84	91	75-125	8	20
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	2	20
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	99	99	75-125	0	20
Zinc	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	1	20

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch:	723525	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3769763 Matrix: Water
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/16/22 11:01	

LABORATORY CONTROL SAMPLE: 3769764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769765 3769766

Parameter	Units	92623226002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	96	90	75-125	7	20	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch:	721194	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: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226007, 92623226008, 92623226009

METHOD BLANK: 3757806 Matrix: Water
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226007, 92623226008, 92623226009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/02/22 11:11	

LABORATORY CONTROL SAMPLE: 3757807

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

SAMPLE DUPLICATE: 3757808

Parameter	Units	92623226001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	81.0	78.0	4	25	

SAMPLE DUPLICATE: 3757809

Parameter	Units	92623294003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	628	638	2	25	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 721455 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: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3759030 Matrix: Water
Associated Lab Samples: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/05/22 12:59	

LABORATORY CONTROL SAMPLE: 3759031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3759032

Parameter	Units	92623226010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	33.0	44.0	29	25	D6

SAMPLE DUPLICATE: 3759033

Parameter	Units	92623533001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	206	204	1	25	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 721563 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: 92623226006

METHOD BLANK: 3759489 Matrix: Water
Associated Lab Samples: 92623226006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/06/22 14:51	

LABORATORY CONTROL SAMPLE: 3759490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	80-120	

SAMPLE DUPLICATE: 3759491

Parameter	Units	92623226006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	148	139	6	25	

SAMPLE DUPLICATE: 3759492

Parameter	Units	92623533010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	128	119	7	25	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch:	721661	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: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009

METHOD BLANK: 3760039 Matrix: Water
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/07/22 22:22	
Fluoride	mg/L	ND	0.10	0.050	09/07/22 22:22	
Sulfate	mg/L	ND	1.0	0.50	09/07/22 22:22	

LABORATORY CONTROL SAMPLE: 3760040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760041 3760042

Parameter	Units	92622406016		3760041		3760042		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	4.1	50	50	57.1	56.7	106	105	90-110	1	10		
Fluoride	mg/L	0.056J	2.5	2.5	2.4	2.4	93	93	90-110	0	10		
Sulfate	mg/L	47.3	50	50	98.1	99.8	101	105	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760043 3760044

Parameter	Units	92623226003		3760043		3760044		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	7.9	50	50	61.5	61.2	107	107	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	96	95	90-110	1	10		
Sulfate	mg/L	0.78J	50	50	54.0	53.6	106	106	90-110	1	10		

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch:	722003	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: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3761858 Matrix: Water
Associated Lab Samples: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/22 14:59	
Fluoride	mg/L	ND	0.10	0.050	09/08/22 14:59	
Sulfate	mg/L	ND	1.0	0.50	09/08/22 14:59	

LABORATORY CONTROL SAMPLE: 3761859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	49.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761860 3761861

Parameter	Units	92623832001		3761861		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	47.2	50	50	98.7	98.6	103	103	90-110	0	10
Fluoride	mg/L	6.9	2.5	2.5	8.5	8.4	62	60	90-110	1	10 M1
Sulfate	mg/L	833	50	50	878	879	91	93	90-110	0	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761862 3761863

Parameter	Units	92623226015		3761863		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	2.9	50	50	55.6	56.1	105	106	90-110	1	10
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	97	90-110	1	10
Sulfate	mg/L	ND	50	50	52.5	53.0	104	105	90-110	1	10

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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QUALIFIERS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

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.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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 Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623226001	YGWA-17S				
92623226002	YGWA-18S				
92623226003	YGWA-18I				
92623226004	GWA-2				
92623226005	YGWA-5I				
92623226006	YGWA-5D				
92623226007	YGWA-21I				
92623226008	YGWA-1D				
92623226009	YGWA-2I				
92623226010	YGWA-30I				
92623226011	YGWA-14S				
92623226012	YGWA-1I				
92623226013	YGWA-47				
92623226014	YGWA-4I				
92623226015	YGWA-20S				
92623226016	YGWA-3I				
92623226017	YGWA-3D				
92623226018	YGWA-39				
92623226019	YGWA-40				
92623226001	YGWA-17S	EPA 3010A	722758	EPA 6010D	722798
92623226002	YGWA-18S	EPA 3010A	722758	EPA 6010D	722798
92623226003	YGWA-18I	EPA 3010A	722758	EPA 6010D	722798
92623226004	GWA-2	EPA 3010A	722758	EPA 6010D	722798
92623226005	YGWA-5I	EPA 3010A	723071	EPA 6010D	723278
92623226006	YGWA-5D	EPA 3010A	723071	EPA 6010D	723278
92623226007	YGWA-21I	EPA 3010A	723071	EPA 6010D	723278
92623226008	YGWA-1D	EPA 3010A	723071	EPA 6010D	723278
92623226009	YGWA-2I	EPA 3010A	723071	EPA 6010D	723278
92623226010	YGWA-30I	EPA 3010A	723071	EPA 6010D	723278
92623226011	YGWA-14S	EPA 3010A	723071	EPA 6010D	723278
92623226012	YGWA-1I	EPA 3010A	723071	EPA 6010D	723278
92623226013	YGWA-47	EPA 3010A	723071	EPA 6010D	723278
92623226014	YGWA-4I	EPA 3010A	723071	EPA 6010D	723278
92623226015	YGWA-20S	EPA 3010A	723071	EPA 6010D	723278
92623226016	YGWA-3I	EPA 3010A	723071	EPA 6010D	723278
92623226017	YGWA-3D	EPA 3010A	723071	EPA 6010D	723278
92623226018	YGWA-39	EPA 3010A	723071	EPA 6010D	723278
92623226019	YGWA-40	EPA 3010A	723071	EPA 6010D	723278
92623226001	YGWA-17S	EPA 3005A	722711	EPA 6020B	722836
92623226002	YGWA-18S	EPA 3005A	723035	EPA 6020B	723160
92623226003	YGWA-18I	EPA 3005A	723035	EPA 6020B	723160
92623226004	GWA-2	EPA 3005A	723035	EPA 6020B	723160
92623226005	YGWA-5I	EPA 3005A	723035	EPA 6020B	723160
92623226006	YGWA-5D	EPA 3005A	723035	EPA 6020B	723160
92623226007	YGWA-21I	EPA 3005A	723035	EPA 6020B	723160
92623226008	YGWA-1D	EPA 3005A	723035	EPA 6020B	723160
92623226009	YGWA-2I	EPA 3005A	723035	EPA 6020B	723160

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623226010	YGWA-30I	EPA 3005A	723035	EPA 6020B	723160
92623226011	YGWA-14S	EPA 3005A	723035	EPA 6020B	723160
92623226012	YGWA-1I	EPA 3005A	723035	EPA 6020B	723160
92623226013	YGWA-47	EPA 3005A	723035	EPA 6020B	723160
92623226014	YGWA-4I	EPA 3005A	723035	EPA 6020B	723160
92623226015	YGWA-20S	EPA 3005A	723035	EPA 6020B	723160
92623226016	YGWA-3I	EPA 3005A	723035	EPA 6020B	723160
92623226017	YGWA-3D	EPA 3005A	723035	EPA 6020B	723160
92623226018	YGWA-39	EPA 3005A	723035	EPA 6020B	723160
92623226019	YGWA-40	EPA 3005A	723035	EPA 6020B	723160
92623226001	YGWA-17S	EPA 7470A	723525	EPA 7470A	723743
92623226002	YGWA-18S	EPA 7470A	723525	EPA 7470A	723743
92623226003	YGWA-18I	EPA 7470A	723525	EPA 7470A	723743
92623226004	GWA-2	EPA 7470A	723525	EPA 7470A	723743
92623226005	YGWA-5I	EPA 7470A	723525	EPA 7470A	723743
92623226006	YGWA-5D	EPA 7470A	723525	EPA 7470A	723743
92623226007	YGWA-21I	EPA 7470A	723525	EPA 7470A	723743
92623226008	YGWA-1D	EPA 7470A	723525	EPA 7470A	723743
92623226009	YGWA-2I	EPA 7470A	723525	EPA 7470A	723743
92623226010	YGWA-30I	EPA 7470A	723525	EPA 7470A	723743
92623226011	YGWA-14S	EPA 7470A	723525	EPA 7470A	723743
92623226012	YGWA-1I	EPA 7470A	723525	EPA 7470A	723743
92623226013	YGWA-47	EPA 7470A	723525	EPA 7470A	723743
92623226014	YGWA-4I	EPA 7470A	723525	EPA 7470A	723743
92623226015	YGWA-20S	EPA 7470A	723525	EPA 7470A	723743
92623226016	YGWA-3I	EPA 7470A	723525	EPA 7470A	723743
92623226017	YGWA-3D	EPA 7470A	723525	EPA 7470A	723743
92623226018	YGWA-39	EPA 7470A	723525	EPA 7470A	723743
92623226019	YGWA-40	EPA 7470A	723525	EPA 7470A	723743
92623226001	YGWA-17S	SM 2540C-2015	721194		
92623226002	YGWA-18S	SM 2540C-2015	721194		
92623226003	YGWA-18I	SM 2540C-2015	721194		
92623226004	GWA-2	SM 2540C-2015	721194		
92623226005	YGWA-5I	SM 2540C-2015	721194		
92623226006	YGWA-5D	SM 2540C-2015	721563		
92623226007	YGWA-21I	SM 2540C-2015	721194		
92623226008	YGWA-1D	SM 2540C-2015	721194		
92623226009	YGWA-2I	SM 2540C-2015	721194		
92623226010	YGWA-30I	SM 2540C-2015	721455		
92623226011	YGWA-14S	SM 2540C-2015	721455		
92623226012	YGWA-1I	SM 2540C-2015	721455		
92623226013	YGWA-47	SM 2540C-2015	721455		
92623226014	YGWA-4I	SM 2540C-2015	721455		
92623226015	YGWA-20S	SM 2540C-2015	721455		
92623226016	YGWA-3I	SM 2540C-2015	721455		
92623226017	YGWA-3D	SM 2540C-2015	721455		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient-Revised Report

Pace Project No.: 92623226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623226018	YGWA-39	SM 2540C-2015	721455		
92623226019	YGWA-40	SM 2540C-2015	721455		
92623226001	YGWA-17S	EPA 300.0 Rev 2.1 1993	721661		
92623226002	YGWA-18S	EPA 300.0 Rev 2.1 1993	721661		
92623226003	YGWA-18I	EPA 300.0 Rev 2.1 1993	721661		
92623226004	GWA-2	EPA 300.0 Rev 2.1 1993	721661		
92623226005	YGWA-5I	EPA 300.0 Rev 2.1 1993	721661		
92623226006	YGWA-5D	EPA 300.0 Rev 2.1 1993	721661		
92623226007	YGWA-21I	EPA 300.0 Rev 2.1 1993	721661		
92623226008	YGWA-1D	EPA 300.0 Rev 2.1 1993	721661		
92623226009	YGWA-2I	EPA 300.0 Rev 2.1 1993	721661		
92623226010	YGWA-30I	EPA 300.0 Rev 2.1 1993	722003		
92623226011	YGWA-14S	EPA 300.0 Rev 2.1 1993	722003		
92623226012	YGWA-1I	EPA 300.0 Rev 2.1 1993	722003		
92623226013	YGWA-47	EPA 300.0 Rev 2.1 1993	722003		
92623226014	YGWA-4I	EPA 300.0 Rev 2.1 1993	722003		
92623226015	YGWA-20S	EPA 300.0 Rev 2.1 1993	722003		
92623226016	YGWA-3I	EPA 300.0 Rev 2.1 1993	722003		
92623226017	YGWA-3D	EPA 300.0 Rev 2.1 1993	722003		
92623226018	YGWA-39	EPA 300.0 Rev 2.1 1993	722003		
92623226019	YGWA-40	EPA 300.0 Rev 2.1 1993	722003		

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Ga Power

Project

WO#: 92623226



Courier: FedEx UPS USPS Client Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 1.9 Correction Factor: 0.0 Add/Subtract (°C)

Cooler Temp Corrected (°C): 1.9

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

Date/Initials Person Examining Contents: 8/31/22 JN

Biological Tissue Frozen? Yes No N/A

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

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: 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 checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

pH Strip Lot# 1004611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92623226

Project

PM: NMG

Due Date: 09/15/22

CLIENT: GA-GA Power

*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-)	WGFW-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)	DG94-250 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)	DG9S-40 mL VOA H2SO4 (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)	BP3N	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	/	/	/	
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	
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)



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mech Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #:

WO#: 92623226

PM: NMG

Due Date: 09/15/22

CLIENT: GA-GA Power

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/1/22 [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: 2.5 Correction Factor: Add/Subtract (°C) 6.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.5

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: 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

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92623226

PM: NMG

Due Date: 09/15/22

CLIENT: GA-GA Power

*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)	DG9A-250 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)	DG9S-40 mL VOA H2SO4 (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																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
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
 Requested Client Information:
 Company: GA Power
 Address: Albany, GA
 Contact: 478.628.5178 Fax
 Requested On Date: 8/29/12

Section B
 Requested Product Information:
 Request For: SO2 Corrosion
 Order For: Arcadis Corrosion
 Project Name: Part Voles Project Upgrade
 Project Number: 1003

Section C
 Previous Information:
 Manufacturer: Southern Co.
 Company Name:
 Address:
 Phone Number:
 Fax Number: 1003

ITEM #	SAMPLE ID <small>One Character per box. 4x2, incl / - Samples box must be analyzed</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							App 11/1 (ppymn only)	Residual Chlorine (Y/N)		
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	
12	YGWA-14S	WIC	G	8/29	1005		2											
	YGWA-17S	WIC	G				2											
	YGWA-18S	WIC	G				2											
	YGWA-20S	WIC	G				2											
	YGWA-211	WIC	G				2											
	YGWA-30I	WIC	G				2											
	YGWA-14S	WIC	G				2											

Section D
 Received on: 8/31/12
 Received by: [Signature]
 Company: Southern Co.
 Address: 1003
 Date Requested: 8/29/12

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Sample Information
 Company: GA Power
 Address: Atlanta, GA
 Requested Date: 4/10/2011 01:17:58
 Project Name: Plant Values Pooled Uriferent
 Project Number: 1003

Section B

Requester Information
 Requested By: SCS Controls
 Company: SCS Controls
 Project Name: Plant Values Pooled Uriferent
 Project Number: 1003

Section C

Location Information
 Location: Southam Co.
 Address:
 Plant Manager: Nicole D'Ono
 Plant #/ID: 1003D

ITEM #	SAMPLE ID Date Collected per hour. (AMZ, 6-9/1, -) Example IDs would be: AMZ01	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES	TESTS					Residual Chlorine (Y/N)						
		START DATE	START TIME				END DATE	END TIME	Unpreserved	Preservatives								
										H2SO4	HNO3		HCl	NaOH	HNO2	Methanol	Other	
YGMA-47		4/10/11	12:05		5													
GMA-2		4/10/11	12:05		2													
YGMA-41		4/10/11	12:05		2													
YGMA-51		4/10/11	12:05		2													
YGMA-5D		4/10/11	12:05		2													
YGMA-176		4/10/11	12:05		2													
YGMA-185		4/10/11	12:05		2													
YGMA-18		4/10/11	12:05		2													
YGMA-208		4/10/11	12:05		2													
YGMA-211		4/10/11	12:05		2													
YGMA-301		4/10/11	12:05		2													
YGMA-148		4/10/11	12:05		2													

Analysis Data
 Method: 8200B
 Operator: [Signature]
 Date: 8/31/11
 Time: 11:53

Plant Values of Analyte
 Analyte: Chlorine
 Sample ID: YGMA-47
 Date: 8/31/11
 Time: 11:53
 Location: 1003
 Plant Manager: Nicole D'Ono
 Plant #/ID: 1003D
 Date: 8/31/11
 Time: 11:53

Page: 1 of 1

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**

Section A Requested Client Information:
 Company: GA Power
 Address: Atlanta, GA
 Contact: 470.520.6176 Fax: _____
 Requested Date: _____

Section B Requested Project Information:
 Requested Project Name: SGS Contract
 Client Name: Atlanta Contract
 Purchase Order #: _____
 Project Name: Plant Water Flooded Upgrade
 Project Number: _____

Section C Analytical Information:
 Requested Analytical Method (Y/N):
 Preservation: Unpreserved
 H2O4
 HNO3
 HCl
 H2SO4
 Methanol
 Other
 App III / IV Metals
 Cl, F, SO4
 TDS (2540C)
 RAD 9315/9320
 App I / R (ppm only)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED			SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES						TEMP in C		
				START DATE	END DATE	TIME			Unpreserved	H2O4	HNO3	HCl	H2SO4	Methanol		Other	
1	YQWA-09	WEG Q	WEG Q				5										
2	YQWA-10	WEG Q	WEG Q				5										
3	YQWA-11	WEG Q	WEG Q				5										
4	YQWA-1D	WEG Q	WEG Q	8/10/15			5										
5	YQWA-2I	WEG Q	WEG Q	8/20/15			5										
6	YQWA-3I	WEG Q	WEG Q				5										
7	YQWA-3D	WEG Q	WEG Q				5										

Section D Analytical Information:
 App II Matrix: Drum Water
 App III Matrix: Drum Water
 App IV Matrix: Drum Water
 App V Matrix: Drum Water

Section E Chain of Custody:
 Name: Kevin Carr
 Signature: [Signature]
 Date: 8/11/15

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

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 3222

Page 1 of 2

Section A
 Regional Client Information
 Company: GA Power
 Address: Atlanta, GA
 Email To: fluvostest@ga.com
 Phone: 470.620.6176
 Requested Date Time: 9/12

Section B
 Regional Project Information
 Report To: SCS Contract
 CDP# To: Arcadis Contract
 Purchase Order #:
 Project Name: Pearl Vales Pooled Upgrade
 Project Number:

Section C
 Location Information
 Address: Southham Co.
 Company Name:
 Address:
 Contact: Nicole O'Neil
 Phone Project Manager:
 Project Name: 10040

ITEM #	SAMPLE ID One Character per dot (A-Z, 0-9, -) Sample IDs must be unique	COLLECTED		SAMPLE TEMP AT COLLECTION		PRESERVATIVES							APP III / IV Metals			Residual Chlorine (VR)			
		START	END																
		DATE	TIME	DATE	TIME	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III / IV Metals		Cl, F, 604	TDS (2540C)	RAD 8315/9320
YGWA-39						0	2	3						X	X	X			
YGWA-40						0	2	3						X	X	X			
YGWA-41						0	2	3						X	X	X			
YGWA-1D						0	2	3						X	X	X			
YGWA-2I						0	2	3						X	X	X			
YGWA-3I						0	2	3						X	X	X			
YGWA-3D						0	2	3						X	X	X			

Address: South 29th St (Cl. F. Station)
 App III Location: Gwin County, GA 30134
 App III Location: 29th St, N.E. V
 App IV: Melissa Griggs, Anthony (SA), Albany (SA), Bithum (SA),
 Bergheim (SA), Cochran (SA), Crossland (CA), Conrad (SA), Leland (PA),
 Urbaniak (SA), Mendenhall (SA), Sessums (SA),
 Zundel, Vancary (SA)

9/11/22 09:00
 9/11/22 10:55
 9/11/22 09:00
 9/11/22 10:55

TEMP in C
 Received on Ice (VR)
 Chilled (VR)
 Sealed Cooler (VR)
 Sample Intact (VR)

Handwritten signatures and dates:
 Ryan Williams 9/11/22
 Ryan Williams 9/11/22
 Ryan Williams 9/11/22
 Ryan Williams 9/11/22

DATE Signed: 9/11/22

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
 Requested Date Base: 470 620 6176
 Email To: sampleid@gaenergy.com
 Name: 470 620 6176
 Requested Date Base: 470 620 6176

Requested Project Information:
 Report for: SCS Contracts
 Copy To: Arcadis Contacts
 Project Name: Plant Values Pooled Upgrade
 Project Number: 1

Requested Laboratory Information:
 Address: Southem Co.
 Company Name:
 Person Name: Nicole D'Ono
 Person Title: 10840

Section B

Requested Project Information:
 Report for: SCS Contracts
 Copy To: Arcadis Contacts
 Project Name: Plant Values Pooled Upgrade
 Project Number: 1

Requested Laboratory Information:
 Address: Southem Co.
 Company Name:
 Person Name: Nicole D'Ono
 Person Title: 10840

Section C

Requested Laboratory Information:
 Address: Southem Co.
 Company Name:
 Person Name: Nicole D'Ono
 Person Title: 10840

ITEM #	SAMPLE ID One Character per line (A-Z, 0-9, -) Sample ID must be unique	DATE	TIME	START	END	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							APP III / IV METALS			APP I / II (gypsum only)	Residual Chlorine (VW)		
										Unreserved	H2SO4	HNO3	HCl	NaOH	Na2O2O3	Methanol	Other	CL F, 604	TDS (2840C)			RAD 9315/9320	
YGWA-39		8/31/12	1550						5	2	2	2	2	2	2	2	2	X	X	X	X		
YGWA-40		8/31/12	1610						5	2	2	2	2	2	2	2	2	X	X	X	X		
YGWA-11		8/31/12	1610						5	2	2	2	2	2	2	2	2	X	X	X	X		
YGWA-10		8/31/12	1610						5	2	2	2	2	2	2	2	2	X	X	X	X		
YGWA-21		8/31/12	1610						5	2	2	2	2	2	2	2	2	X	X	X	X		
YGWA-31		8/31/12	1610						5	2	2	2	2	2	2	2	2	X	X	X	X		
YGWA-3D		8/31/12	1610						5	2	2	2	2	2	2	2	2	X	X	X	X		

Signature of Sample User: *N. D'Ono* **DATE SIGNED:** 9/1/12

Signature of Analyst: *Nicole D'Ono* **DATE SIGNED:** 9/1/12

Page: 1 of 1

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: jhopper@ga.gov
 Phone: 470.620.8178
 Requested Date: _____

Section B: Requested Project Information:
 Report To: SCS Contract
 Copy To: Arcadis Contract
 Purchase Order #: _____
 Project Name: Plant Values Pooled Upgrade
 Project Number: _____

Section C: Reference Information:
 Location: Southern Co.
 Address: _____
 City: _____
 State: _____
 Zip: _____
 Plant Project Manager: Nicole D'Onofrio
 Plant Name: _____

ITEM #	SAMPLE ID	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							APP. BY / METALS			Residual Chlorine (YR)	
		START	END		Unpreserved	H2O4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App. By	Metals		
		DATE	TIME		DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME		
YGWA-47	WG G															
YGWA-2	WG G															
YGWA-49	WG G															
YGWA-51	WG G															
YGWA-50	WG G															
YGWA-17S	WG G															
YGWA-16S	WG G															
YGWA-18I	WG G															
YGWA-20S	WG G															
YGWA-21I	WG G															
YGWA-30I	WG G															
YGWA-14S	WG G															

App B: State: Georgia
App C: Station: _____
App D: Date: 9/1/2005
App E: Location: _____

App F: State: Georgia
App G: Station: _____
App H: Date: 9/1/2005
App I: Location: _____

App J: State: Georgia
App K: Station: _____
App L: Date: 9/1/2005
App M: Location: _____

App N: State: Georgia
App O: Station: _____
App P: Date: 9/1/2005
App Q: Location: _____

App R: State: Georgia
App S: Station: _____
App T: Date: 9/1/2005
App U: Location: _____

App V: State: Georgia
App W: Station: _____
App X: Date: 9/1/2005
App Y: Location: _____

App Z: State: Georgia
App AA: Station: _____
App AB: Date: 9/1/2005
App AC: Location: _____

App AD: State: Georgia
App AE: Station: _____
App AF: Date: 9/1/2005
App AG: Location: _____

App AH: State: Georgia
App AI: Station: _____
App AJ: Date: 9/1/2005
App AK: Location: _____

App AL: State: Georgia
App AM: Station: _____
App AN: Date: 9/1/2005
App AO: Location: _____

App AP: State: Georgia
App AQ: Station: _____
App AR: Date: 9/1/2005
App AS: Location: _____

App AV: State: Georgia
App AW: Station: _____
App AX: Date: 9/1/2005
App AY: Location: _____

App AZ: State: Georgia
App BA: Station: _____
App BB: Date: 9/1/2005
App BC: Location: _____

App BE: State: Georgia
App BF: Station: _____
App BG: Date: 9/1/2005
App BH: Location: _____

App BI: State: Georgia
App BJ: Station: _____
App BK: Date: 9/1/2005
App BL: Location: _____

App BM: State: Georgia
App BN: Station: _____
App BO: Date: 9/1/2005
App BP: Location: _____

App BQ: State: Georgia
App BR: Station: _____
App BS: Date: 9/1/2005
App BT: Location: _____

App BU: State: Georgia
App BV: Station: _____
App BV: Date: 9/1/2005
App BV: Location: _____

App BW: State: Georgia
App BW: Station: _____
App BW: Date: 9/1/2005
App BW: Location: _____

App BX: State: Georgia
App BX: Station: _____
App BX: Date: 9/1/2005
App BX: Location: _____

App BY: State: Georgia
App BY: Station: _____
App BY: Date: 9/1/2005
App BY: Location: _____

App BZ: State: Georgia
App BZ: Station: _____
App BZ: Date: 9/1/2005
App BZ: Location: _____

App C0: State: Georgia
App C0: Station: _____
App C0: Date: 9/1/2005
App C0: Location: _____

App C1: State: Georgia
App C1: Station: _____
App C1: Date: 9/1/2005
App C1: Location: _____

App C2: State: Georgia
App C2: Station: _____
App C2: Date: 9/1/2005
App C2: Location: _____

App C3: State: Georgia
App C3: Station: _____
App C3: Date: 9/1/2005
App C3: Location: _____

App C4: State: Georgia
App C4: Station: _____
App C4: Date: 9/1/2005
App C4: Location: _____

App C5: State: Georgia
App C5: Station: _____
App C5: Date: 9/1/2005
App C5: Location: _____

App C6: State: Georgia
App C6: Station: _____
App C6: Date: 9/1/2005
App C6: Location: _____

App C7: State: Georgia
App C7: Station: _____
App C7: Date: 9/1/2005
App C7: Location: _____

App C8: State: Georgia
App C8: Station: _____
App C8: Date: 9/1/2005
App C8: Location: _____

App C9: State: Georgia
App C9: Station: _____
App C9: Date: 9/1/2005
App C9: Location: _____

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

Section A Requested Client Information:
 Company: GA Power
 Address: Atlanta, GA
 Contact: 478.620.6178
 Requested Due Date: Per

Section B Requested Project Information:
 Project Name: Plant Values Pooled Upgradation
 Project Number: 10840

Section C Service Information:
 Analytical Location: Southem Co.
 Analytical Manager: Nicole D'Ono
 Test Protocol: 10840

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES	ANALYTICAL	RESIDUAL CHLORINE (Y/N)
				START DATE TIME	END DATE TIME					
YGWA-17		WIG G	23	015			5			
YGWA-2		WIG G					5			
YGWA-4		WIG G					5			
YGWA-6		WIG G					5			
YGWA-8		WIG G					5			
YGWA-10		WIG G					5			
YGWA-12		WIG G					5			
YGWA-14		WIG G					5			
YGWA-16		WIG G					5			
YGWA-18		WIG G					5			
YGWA-20		WIG G					5			
YGWA-22		WIG G					5			
YGWA-24		WIG G					5			
YGWA-26		WIG G					5			
YGWA-28		WIG G					5			
YGWA-30		WIG G					5			
YGWA-32		WIG G					5			
YGWA-34		WIG G					5			
YGWA-36		WIG G					5			
YGWA-38		WIG G					5			
YGWA-40		WIG G					5			
YGWA-42		WIG G					5			
YGWA-44		WIG G					5			
YGWA-46		WIG G					5			
YGWA-48		WIG G					5			
YGWA-50		WIG G					5			
YGWA-52		WIG G					5			
YGWA-54		WIG G					5			
YGWA-56		WIG G					5			
YGWA-58		WIG G					5			
YGWA-60		WIG G					5			
YGWA-62		WIG G					5			
YGWA-64		WIG G					5			
YGWA-66		WIG G					5			
YGWA-68		WIG G					5			
YGWA-70		WIG G					5			
YGWA-72		WIG G					5			
YGWA-74		WIG G					5			
YGWA-76		WIG G					5			
YGWA-78		WIG G					5			
YGWA-80		WIG G					5			
YGWA-82		WIG G					5			
YGWA-84		WIG G					5			
YGWA-86		WIG G					5			
YGWA-88		WIG G					5			
YGWA-90		WIG G					5			
YGWA-92		WIG G					5			
YGWA-94		WIG G					5			
YGWA-96		WIG G					5			
YGWA-98		WIG G					5			
YGWA-100		WIG G					5			

Section D Analytical Information:
 Analytical Location: Southem Co.
 Analytical Manager: Nicole D'Ono
 Test Protocol: 10840

Section E Chain of Custody:
 Name of Person: JAKE SWANSON
 Signature: [Signature]
 Date Signed: 9/11/22

Section F Receipt Information:
 Received on: 9/11/22
 Received by: [Signature]
 Date Received: 9/11/22

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Requested Chemical Information: County: GA, Project: GA, Address: Albany, GA
 Section B Requested Project Information: Project No.: SCS Controls, City No.: Arcadia Controls
 Section C Invoice Information: Analyst: Southern Co., Company Name:
 Section D Preservative Information: Preservatives: H2SO4, HNO3, HCl, NaOH, Na2S2O3, Methanol, Other
 Section E Analytical Request: App III / IV Metals, CA, F, SO4, TDSI (25-40C), RAD 9315/9320, App I / II (gypsum only)

Sample ID: Oso Chloride per lot, 4x2-0-0/-1, Samples too small for analysis

Sample Temp at Collection: _____

SAMP. ID	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES						ANALYTICAL REQUEST			RECEIVED ON TAG (Y/N)	CONTAINER COLOR (Y/N)	SAMPLES INTACT (Y/N)
	START DATE	END DATE		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	APP III / IV METALS			
YGWA-29															
YGWA-40															
YGWA-11		7/51/08									X	X	X	X	
YGWA-10											X	X	X	X	
YGWA-23											X	X	X	X	
YGWA-31											X	X	X	X	
YGWA-3D											X	X	X	X	

Received on Tag (Y/N): _____

Container Color (Y/N): _____

Samples Intact (Y/N): _____

App B Material: Brown 02020, CA 08/10/08	App B Material: 28, 29, 30, 31, V	App B Material: Albany (GA), Charleston (SC), Cheriton (CA), Chestnut (CA), Coastal (CA), Lead (PA), Lincoln (PA), Maysville (VA), Salsburg (SC), Tangle (VA)	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800
App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800	App B Material: 8/1/08 0800

Page: 2 of 3

CHAIN-OF-CUSTODY / Analytical Request Document

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

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43226

Section A

Section B

Section C

Required Client Information:
 Company: GA Power
 Address: Atlanta, GA
 Requester: [Blank]
 Requester Title: [Blank]
 Email To: [Blank]
 Phone: 470.620.8178
 Requester Email: [Blank]

Required Project Information:
 Report To: SCS Contracts
 Project Name: [Blank]
 Project Number: [Blank]
 Purchase Order #: [Blank]

Required Laboratory Information:
 Analytical Lab: Southern Co.
 Company Name: [Blank]
 Address: [Blank]
 POC Name: [Blank]
 POC Title: [Blank]

Plant Values Pooled Upgrades:
 Plant Name: [Blank]

Plant Values:
 Plant Name: [Blank]
 POC Name: [Blank]
 POC Title: [Blank]
 Plant Address: [Blank]

WELL					COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						App BVV Metals				Residual Chlorine (VR)											
					START	END			Unpreserved	H2SO4	HNO3	HCl	H2O2	Method	Other	App BVV Metals	Cl, F, SO4	TDS (2540C)		RAD 9315/9320	App I / II (gypsum only)									
SAMPLE ID One Character per box (4-2, 0-9, /, -) Example ID must be unique					MATRIX CODE (see wild codes to left)		App ID Name Title Signature Date City	CODE																						
					SAMPLE TYPE (d-dplus C-COMP)			DATE		TIME		DATE		TIME																
					YGWA-47			WNG		G		-		-		2		-		-		-		-		-		-		
					YGWA-2			WNG		G		-		-		2		-		-		-		-		-		-		
					YGWA-41			WNG		G		-		-		2		-		-		-		-		-		-		
					YGWA-61			WNG		G		-		-		2		-		-		-		-		-		-		
					YGWA-6D			WNG		G		-		-		2		-		-		-		-		-		-		
					YGWA-17G			WNG		G		-		-		2		-		-		-		-		-		-		
					YGWA-18S			WNG		G		-		-		2		-		-		-		-		-		-		
					YGWA-18I			WNG		G		-		-		2		-		-		-		-		-		-		
					YGWA-20S			WNG		G		-		-		2		-		-		-		-		-		-		
					YGWA-21I			WNG		G		-		-		2		-		-		-		-		-		-		
					YGWA-30I			WNG		G		-		-		2		-		-		-		-		-		-		
					YGWA-14S			WNG		G		-		-		2		-		-		-		-		-		-		

Analysis Data
 App ID: [Blank]
 App Name: [Blank]
 App Address: [Blank]
 App City: [Blank]

Plant Values
 Plant Name: [Blank]
 POC Name: [Blank]
 POC Title: [Blank]
 Plant Address: [Blank]

Requester Information
 Requester Name: [Blank]
 Requester Title: [Blank]
 Requester Address: [Blank]
 Requester City: [Blank]

Signatures
 Requester Signature: [Blank]
 Date Requested: [Blank]

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: GA Power, Atlanta, GA
 Section B Required Project Information: SCS Contacts, Arcadis Contacts
 Section C Invoice Information: Southern Co., Arcadis

Required Client Information:		Required Project Information:		Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Company Name:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Address:	
Email To:	baucoker@southenergy.com	Purchase Order #:		Plant Name:	Plant Yates Pooled Upgradient
Phone:	470.620.6176	Project Name:	Plant Yates Pooled Upgradient	Plant Profile #:	10840
Requested Due Date:		Project Number:		Plant Manager:	Nicole D'Onofrio
				Plant Location:	Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -, .) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Other Air Other Thru	CODE D/W WT WW P SL OT AP OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		PRESERVED		ANALYSES TEST	RESIDUAL CHLORINE (Y/N)	PH						
						START DATE	END DATE	UNPRESERVED	H2SO4				HNO3	HCl	NaOH	Na2S2O3	Methanol	Other
						TIME	TIME	# OF CONTAINERS										
1	YGWA-47			W/G	G			5	2	3								
2	GWA-2			W/G	G	8/30	1005	5	2	3								
3	YGWA-41			W/G	G			5	2	3								
4	YGWA-51			W/G	G			5	2	3								
5	YGWA-5D			W/G	G			5	2	3								
6	YGWA-17S			W/G	G			5	2	3								
7	YGWA-18S			W/G	G			5	2	3								
8	YGWA-181			W/G	G			5	2	3								
9	YGWA-20S			W/G	G			5	2	3								
10	YGWA-211			W/G	G			5	2	3								
11	YGWA-301			W/G	G			5	2	3								
12	YGWA-14S			W/G	G			5	2	3								

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE		TIME	
Arcadis Site 300 O. C. F. Sulfate		Arcadis		Arcadis		8/31/12		800	
App III Metals: Boron 6020B Ca 6010D:		Ryan Williams / Arcadis		Ryan Williams / Arcadis		8/31/12		1003	
App III 6020B Zn Ag Ni V		Ryan Williams / Arcadis		Ryan Williams / Arcadis		8/31/12		1153	
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), Toluene (Mn)		Ryan Williams / Arcadis		Ryan Williams / Arcadis		8/31/12		1453	

SAMPLER NAME AND SIGNATURE		DATE SIGNED
PRINT Name of SAMPLER:	Jane Severson	8/31/12
SIGNATURE of SAMPLER:	<i>Jane Severson</i>	8/31/12

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: laucoker@southernco.com, Phone: 470.620.6176, Requested Due Date: _____

Section B Required Project Information: Report To: SCS Contacts, Copy To: Arcadis Contacts, Purchase Order #: _____, Project Name: Plant Yales Pooled Upgradant, Project Number: _____

Section C Invoice Information: Attention: Southern Co., Address: _____, Price Quote: _____, Face Project Manager: Nicole D'Orleo, Price Profile #: 10940, Requested Analysis Filtered (Y/N): _____, State / Location: Georgia

ITEM #	SAMPLE ID (A-Z, 0-9 / -)	MATRIX	CODE	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)	PH		
						START	END		UNPRESERVED	H2SO4	HNO3	NaOH	Na2S2O3	Methanol				Other	
1	YGWA-47	Drinking Water	DW		W/C G														
2	GWA-2	Waste Water	WW		W/C G														
3	YGWA-41	Product	PR		W/C G														
4	YGWA-51	Solidified	SL		W/C G														
5	YGWA-5D	Wine	WI		W/C G														
6	YGWA-17S	Other	OT		W/C G														
7	YGWA-18S	Thru	TS		W/C G														
8	YGWA-181				W/C G	8/30 1335													
9	YGWA-20S				W/C G	8/30 1540													
10	YGWA-211				W/C G														
11	YGWA-301				W/C G														
12	YGWA-14S				W/C G														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Appions Suite 300.0 (Cl, F, Sulfate)	[Signature]	8/31/12	0750	[Signature]	9/11/12	1055				
App II Metals: Barom 6020B, Ca 6010D, App III 6020B, Zn, Ag, Ni, V	[Signature]	8/31/12	1050	[Signature]	9/4/12	1103				
App IV Metals: 6020B, Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl), Mercury (Hg)	[Signature]	8/31/12	1153	[Signature]	9/3/12	1153				

SAMPLER NAME AND SIGNATURE: JESSICA WARE
 PRINT Name of SAMPLER: JESSICA WARE
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 8/31/12

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: [blank]
Requested Due Date: [blank]
Email To: jaulcocker@southernco.com

Section B
Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #: [blank]
Project Name: Plant Yales Pooled Upgradient
Project Number: [blank]

Section C
Invoice Information:

Attention: Southern Co.
Address: [blank]
Face Order: [blank]
Face Project Manager: Nicole D'Ono
Face Profile #: 10840

ITEM #	SAMPLE ID <small>One character per box. (A-Z 0-9 / -) Sample IDs must be unique</small>	MATRIX <small>Drinking Water Water Waste Water Surface Oil Wipe Air Other Tissue</small>	CODE <small>DW WT WW S CL WF AF OT TS</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysed Test	Y/N	Requested Analysis Filtered (Y/N)	
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3				Methanol
1	YGWA-47		WG G				5										
2	GWA-2		WG G				5										
3	YGWA-41		WG G				5										
4	YGWA-51		WG G	8/24/12	1052		5										
5	YGWA-5D		WG G	8/28/12	1205		5										
6	YGWA-17S		WG G				5										
7	YGWA-18S		WG G				5										
8	YGWA-181		WG G				5										
9	YGWA-20S		WG G				5										
10	YGWA-211		WG G	8/29/12	1420		5										
11	YGWA-301		WG G				5										
12	YGWA-14S		WG G				5										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Amicus Suite 300.0 (Cl, F, Sulfide)	[Signature]	8/31/12	1003	[Signature]	8/31/12	1003	
App III Metals: Boron 6020B, Ca 6010D, App III 6020B: Zn, Ag, Ni, V	[Signature]	8/31/12	1153	[Signature]	8/31/12	1153	
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)	[Signature]	8/31/12	1153	[Signature]	8/31/12	1153	

SAMPLER NAME AND SIGNATURE		TEMP in C
PRINT Name of SAMPLER: Marc Chest	DATE Signed: 8/31/12	Received on Ice (Y/N)
SIGNATURE of SAMPLER: [Signature]		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: Section B Required Project Information: Section C Invoice Information:

Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.	
Address: Atlanta, GA		Copy To: Arcadis Contacts		Company Name:	
Email To: jlauckner@southern.com		Purchase Order #: Plant Yates Pooled Upgradient		Address:	
Phone: 470.620.6176 Fax:		Project Name: Plant Yates Pooled Upgradient		Facilities:	
Requested Date Date:		Project Number:		Facilities Profile #: 10840	
				Requested Analysis Filtered (Y/N)	
				State / Location: Georgia	

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	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH:		
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3					Methanol	Other
1	YGWA-39	WG G	G				5												
2	YGWA-40	WG G	G				5												
3	YGWA-11	WG G	G				5												
4	YGWA-1D	WG G	G	8:30	1:50		5												
5	YGWA-2I	WG G	G	9:30	1:00		5												
6	YGWA-3I	WG G	G				5												
7	YGWA-3D	WG G	G				5												
8							2												
9																			
10																			
11																			
12																			

RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME
Mueli Carson Arcadis		8/31/12	8:05	Mueli Carson Arcadis		8/31/12	8:05
Lyon Williams / Arc		8/31/12	1:53	Lyon Williams / Arc		8/31/12	1:53

SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER: Mueli Carson	DATE Signed: 8/31/12
SIGNATURE of SAMPLER:			

CHAIN-OF-CUSTODY / Analytical Request Document

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

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Page: 1 of 2

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: GA Power	Report To: SCS Contacts	Attention: Southem Co.	Company Name: Southem Co.	Address:	Regulatory Agency:
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name: Southem Co.	Address:	State/Location: Georgia	
Email To: jsucker@scsuhantco.com	Purchase Order #: Plant Yates Pooled Upgradient	Pace Quote: Nicole D'Olivo	Pace Project Manager: Nicole D'Olivo	Requester Analysis (Inlined Y/N)	
Phone: 470.620.6176	Project Name: Plant Yates Pooled Upgradient	Pace Profile #: 10840			
Requested Date Date:	Project Number:				

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / . -)</small> Sample IDs must be unique	MATRIX <small>Drinking Water Waste Water Process Water Surface Water Other</small>	CODE <small>DW WW PW SW AR OT TS</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSES TEST	Residual Chlorine (Y/N)	pH:				
				START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other	App III / IV Metals	Cl, F, SO4	TDS (2540C)
1	YGWA-39																			
2	YGWA-40																			
3	YGWA-11																			
4	YGWA-1D																			
5	YGWA-21																			
6	YGWA-31																			
7	YGWA-3D																			
8																				
9																				
10																				
11																				
12																				

RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME	
[Signature]		9/11/22		0800		[Signature]		9/11/22		0905	
[Signature]		9/11/22		1055		[Signature]		9/11/22		0905	

ADDITIONAL COMMENTS

App III Metals: Boron 60208, Ca 60100;
App III 60208: Zn, Ag, Ni, V

App IV: Metals 60208: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl), Mercury (Hg)

SAMPLER NAME AND SIGNATURE		DATE SIGNED	
[Signature]		9/11/22	
PRINT Name of SAMPLER		DATE SIGNED	
[Signature]		9/11/22	

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: laucoker@southernco.com Phone: 470.620.6176 Fax: [] Requested Due Date: []

Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Project Name: Plant Yates Pooled Upgradient Project Number: []

Section C Invoice Information: Attention: Southern Co. Company Name: [] Address: [] Pace Quote: [] Pace Project Manager: Nicole D'Olivo Pace Probe #: 10840

Regulatory Agency: [] State / Location: Georgia

Page: 1 of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, '-') Sample IDs must be unique	MATRIX Drinking Water Waste Water Product Soil/Sed Air Other Tissue	CODE DW WT WW P SL CL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH: <u>5.30</u> <u>4.53</u>				
						START	END							Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3						Methanol	Other	App III / IV Metals	Cl, F, SO4
1	YGWA-39			WG G	G	8/31/12	1350						5	2	3													
2	YGWA-40			WG G	G	8/31/12	1440						5	2	3													
3	YGWA-11			WG G	G								5	2	3													
4	YGWA-1D			WG G	G								5	2	3													
5	YGWA-21			WG G	G								5	2	3													
6	YGWA-3I			WG G	G								5	2	3													
7	YGWA-3D			WG G	G								5	2	3													
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS: Arcadis State 300.0 (Cl, F, Sulfate)
 Arcadis State 300.0 (Cl, F, Sulfate)
 App III Metals: Boron 6020B, Ca 6010D, App III 6020B, Zn, Ag, Ni, V
 Ryan Williams / Pace 9/1/12 1085 Ryan Williams / Pace 9/1/12 0905

RELINQUISHED BY / AFFILIATION: Ryan Williams / Pace DATE: 9/1/12

ACCEPTED BY / AFFILIATION: Ryan Williams / Pace DATE: 9/1/12

TEMP in C: []

Received on ice (Y/N): []

Custody Sealed Cooler (Y/N): []

Samples Intact (Y/N): []

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: Mark Chest SIGNATURE OF SAMPLER: [Signature] DATE Signed: 9/1/12

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
 Section C Invoice Information: Attention: Southern Co. Company Name: Address: P.O. Box 10840 Pool Project Manager: Nicole D'Orto Pool Profile #: 10840
 Regulatory Agency: State / Location: Georgia

Section A Required Client Information:
 Company: GA Power
 Address: Atlanta, GA
 Email To: lauckner@southernco.com
 Phone: 470.620.6176 Fax
 Requested Due Date:
 Section B Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Purchase Order #: Plant Yates Pooled Upgradient
 Project Name:
 Project Number:
 Section C Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 P.O. Box: 10840
 Pool Project Manager: Nicole D'Orto
 Pool Profile #: 10840
 Regulatory Agency:
 State / Location: Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Sewage Other M DM T TS	CODE DW WT WW P S OL OT AP DT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Requested Analysis (Y/N)	Residual Chlorine (Y/N)	PH	
				START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
1	YGWA-47																
2	YGWA-2																
3	YGWA-41																
4	YGWA-51																
5	YGWA-5D																
6	YGWA-17S																
7	YGWA-18S																
8	YGWA-181																
9	YGWA-20S																
10	YGWA-211																
11	YGWA-301																
12	YGWA-14S																

ADDITIONAL COMMENTS: App III Metals: Boron 6020B, Ca 6010D, App III 6020B: Zn, Ag, Ni, V
 App IV Metals: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl), Mercury (Hg)

RELINQUISHED BY / AFFILIATION: [Signature] DATE: 8/1/22 TIME: 0900
 ACCEPTED BY / AFFILIATION: [Signature] DATE: 8/1/22 TIME: 0900

DATE Signed: 8/1/22

TEMP in C: _____
 Received on Ice (Y/N): _____
 Cooled (Y/N): _____
 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:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:
Email To: jauckler@southemco.com	Purchase Order #:	Address:
Phone: 470.620.6176 Fax	Project Name: Plant Yales Pooled Upgradient	Pace Order:
Requested Due Date:	Project Number:	Pace Project Manager: Nicole D'Ono
		Pace Profile #: 10840

ITEM #	SAMPLE ID One Character per Dgtc. (A-Z, 0-9 / -)	MATRIX Dewater Filter Other Waste Water Process Secondary Other Other Other Tissue	CODE DVI WV WVW P SL OK WV AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS Unpreserved	Preservatives							Analyses Test	Y/N	Requested Analysis (marked Y/N)	Residual Chlorine (Y/N)	pH:														
						START	END			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other						App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)									
1	YGWA-47			WG G	G	9/31	0915		5 2										X																
2	GW-A-2			WG G	G				5 2										X																
3	YGWA-4I			WG G	G				5 2										X																
4	YGWA-6I			WG G	G				5 2										X																
5	YGWA-5D			WG G	G				5 2										X																
6	YGWA-17S			WG G	G				5 2										X																
7	YGWA-18S			WG G	G				5 2										X																
8	YGWA-18I			WG G	G				5 2										X																
8	YGWA-20S			WG G	G				5 2										X																
10	YGWA-21I			WG G	G				5 2										X																
11	YGWA-30I			WG G	G				5 2										X																
12	YGWA-14S			WG G	G				5 2										X																

ADDITIONAL COMMENTS	REINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Arcadis	9/1/02	0800	Kyan William-1 / Pace	9/1/02	0905	
App III Metals: Boron 6020B, Ca 6010C, App III 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Arsenic (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: Jake Swanson	DATE Signed: 9/1/02
SIGNATURE of SAMPLER:	
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.

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Section A

Required Client Information:
 Company: **GA Power**
 Address: **Atlanta, GA**
 Email To: **lauckner@southemco.com**
 Phone: **470.620.6176** Fax
 Requested Due Date:

Section B

Required Project Information:
 Report To: **SCS Contacts**
 Copy To: **Arcadis Contacts**
 Purchase Order #: **Plant Yates Pooled Upgrade**
 Project Name:
 Requested Due Date:

Section C

Invoice Information:
 Attention: **Southern Co.**
 Company Name:
 Address:
 Paces Quote:
 Paces Project Manager: **Nicole D'Olivo**
 Paces Profile #: **10840**

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs must be unique	MATRIX Drinking Water Waste Water Process Water Stormwater Surface Water Other	CODE DW WW PW SW AW OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	DATE	TIME	START	END	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Residual Chlorine (Y/N)										
														Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)				
1	YGWA-47				WG G								5	2	3																		
2	YGWA-2				WG G								5	2	3																		
3	YGWA-41				WG G								5	2	3																		
4	YGWA-51				WG G								5	2	3																		
5	YGWA-5D				WG G								5	2	3																		
6	YGWA-17S				WG G								5	2	3																		
7	YGWA-18S				WG G								5	2	3																		
8	YGWA-18I				WG G								5	2	3																		
9	YGWA-20S				WG G								5	2	3																		
10	YGWA-211				WG G								5	2	3																		
11	YGWA-301				WG G	8/17/11	1130						5	2	3																		
12	YGWA-14S				WG G	9/15/11	1415						5	2	3																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Anions Sulfate 300.0 (Cl, F, Sulfate)	W Hall Carson Arcadis	9/1/12	0800	W Hall Carson Arcadis	9/1/12	0800				
App III Metals: Boron 6020B, Ca 6010D, App VI 6020B: Zn, Ag, Ni, V	W Hall Carson Arcadis	9/1/12	1053	W Hall Carson Arcadis	9/1/12	0915				
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), Thioam: Mercury (Hg)	W Hall Carson Arcadis	9/1/12	1053	W Hall Carson Arcadis	9/1/12	0915				

Regulatory Agency: **Georgia**
 State / Location: **Georgia**

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: laudaker@southernco.com
Phone: 470 620 6176 Fax

Requested Due Date:

Section B
Report Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts

Purchase Order #: Plant Yales Pooled Upgradient
Project Name:

Project Number:

Section C
Invoice Information:

Attention: Southern Co.
Company Name:

Pace Quote:
Pace Project Manager: Nicole D'Olivo

Pace Profile #: 10840

Regulatory Agency
State / Location
Georgia

Page: 2 of 3

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / .) Sample IDs must be unique	MATRIX Drinking Water Wastewater Wastewater Product Soils Air Other TSS	CODE DW WT WW P S A AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyses Test	Requested Analysis Requested (Y/N)	Residual Chlorine (Y/N)
						START DATE	END DATE						
1	YGWA-39								5 2 3		App III / IV Metals Cl, F, SO4 TDS (2540C) RAD 9315/9320		
2	YGWA-40								5 2 3				
3	YGWA-11								5 2 3				
4	YGWA-1D								5 2 3				
5	YGWA-2I								5 2 3				
6	YGWA-3I								5 2 3				
7	YGWA-3D								5 2 3				
8													
9													
10													
11													
12													

ADDITIONAL COMMENTS: Arcadis Suite 300 0 (Cl, F, Sulfate)
App III Metals: Boron 6020B, Ca 6010D, App III 6020B, Zn, Ag, Ni, V
App IV Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thiomalate (H₂O₄)

REINQUISHED BY / AFFILIATION: Arcadis
DATE: 8/1/12
TIME: 0800
ACCEPTED BY / AFFILIATION: [Signature]
DATE: 9/1/12
TIME: 0800

SAMPLER NAME AND SIGNATURE: [Signature]
PRINT Name of SAMPLER: [Name]
SIGNATURE OF SAMPLER: [Signature]
DATE Signed: 9/1

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

September 23, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Yates Pooled Upgradient Rads
Pace Project No.: 92623277

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 31, 2022 and September 01, 2022. 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,



Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM

Albert Zumbuhl, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Yates Pooled Upgradient Rads
Pace Project No.: 92623277

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
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
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623277001	YGWA-17S	Water	08/30/22 15:40	08/31/22 11:03
92623277002	YGWA-18S	Water	08/30/22 10:10	08/31/22 11:03
92623277003	YGWA-18I	Water	08/30/22 13:35	08/31/22 11:03
92623277004	GWA-2	Water	08/30/22 10:05	08/31/22 11:03
92623277005	YGWA-5I	Water	08/30/22 10:52	08/31/22 11:03
92623277006	YGWA-5D	Water	08/30/22 12:05	08/31/22 11:03
92623277007	YGWA-21I	Water	08/30/22 14:30	08/31/22 11:03
92623277008	YGWA-1D	Water	08/30/22 13:50	08/31/22 11:03
92623277009	YGWA-2I	Water	08/30/22 10:00	08/31/22 11:03
92623277010	YGWA-30I	Water	08/31/22 11:30	09/01/22 09:05
92623277011	YGWA-14S	Water	08/31/22 14:15	09/01/22 09:05
92623277012	YGWA-1I	Water	08/31/22 09:10	09/01/22 09:05
92623277013	YGWA-47	Water	08/31/22 09:15	09/01/22 09:05
92623277014	YGWA-4I	Water	08/31/22 15:37	09/01/22 09:05
92623277015	YGWA-20S	Water	08/31/22 12:57	09/01/22 09:05
92623277016	YGWA-39	Water	08/31/22 13:50	09/01/22 09:05
92623277017	YGWA-40	Water	08/31/22 16:40	09/01/22 09:05
92623277018	YGWA-3I	Water	08/31/22 10:54	09/01/22 09:05
92623277019	YGWA-3D	Water	08/31/22 09:30	09/01/22 09:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92623277001	YGWA-17S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277002	YGWA-18S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277003	YGWA-18I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277004	GWA-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277005	YGWA-5I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277006	YGWA-5D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277007	YGWA-21I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277008	YGWA-1D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277009	YGWA-2I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277010	YGWA-30I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277011	YGWA-14S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277012	YGWA-1I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277013	YGWA-47	EPA 9315	RMS	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Yates Pooled Upgradient Rads
Pace Project No.: 92623277

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92623277014	YGWA-4I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92623277015	YGWA-20S	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277016	YGWA-39	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92623277017	YGWA-40	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92623277018	YGWA-3I	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277019	YGWA-3D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads
Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277001	YGWA-17S					
EPA 9315	Radium-226	0.114 ± 0.0935 (0.148) C:97% T:NA	pCi/L		09/21/22 16:06	
EPA 9320	Radium-228	0.964 ± 0.357 (0.496) C:79% T:96%	pCi/L		09/21/22 11:51	
Total Radium Calculation	Total Radium	1.08 ± 0.451 (0.644)	pCi/L		09/22/22 16:49	
92623277002	YGWA-18S					
EPA 9315	Radium-226	0.0688 ± 0.0906 (0.189) C:97% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.542 ± 0.287 (0.493) C:82% T:95%	pCi/L		09/21/22 11:51	
Total Radium Calculation	Total Radium	0.611 ± 0.378 (0.682)	pCi/L		09/22/22 16:49	
92623277003	YGWA-18I					
EPA 9315	Radium-226	0.0453 ± 0.0847 (0.194) C:91% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.961 ± 0.372 (0.555) C:81% T:93%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	1.01 ± 0.457 (0.749)	pCi/L		09/22/22 16:49	
92623277004	GWA-2					
EPA 9315	Radium-226	0.181 ± 0.124 (0.194) C:91% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	1.34 ± 0.454 (0.623) C:83% T:89%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	1.52 ± 0.578 (0.817)	pCi/L		09/22/22 16:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads
Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277005	YGWA-5I					
EPA 9315	Radium-226	0.0755 ± 0.109 (0.238) C:95% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.644 ± 0.326 (0.564) C:79% T:97%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	0.720 ± 0.435 (0.802)	pCi/L		09/22/22 16:49	
92623277006	YGWA-5D					
EPA 9315	Radium-226	3.13 ± 0.626 (0.210) C:93% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	2.21 ± 0.587 (0.575) C:82% T:89%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	5.34 ± 1.21 (0.785)	pCi/L		09/22/22 16:49	
92623277007	YGWA-21I					
EPA 9315	Radium-226	0.307 ± 0.154 (0.202) C:92% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.959 ± 0.367 (0.535) C:81% T:92%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	1.27 ± 0.521 (0.737)	pCi/L		09/22/22 16:49	
92623277008	YGWA-1D					
EPA 9315	Radium-226	0.248 ± 0.149 (0.239) C:94% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.579 ± 0.293 (0.483) C:82% T:88%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	0.827 ± 0.442 (0.722)	pCi/L		09/22/22 16:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads
Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277009	YGWA-2I					
EPA 9315	Radium-226	0.0872 ± 0.111 (0.234) C:93% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.612 ± 0.309 (0.528) C:83% T:94%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	0.699 ± 0.420 (0.762)	pCi/L		09/22/22 16:49	
92623277010	YGWA-30I					
EPA 9315	Radium-226	-0.0454 ± 0.0594 (0.213) C:94% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.506 ± 0.326 (0.611) C:81% T:92%	pCi/L		09/21/22 15:02	
Total Radium Calculation	Total Radium	0.506 ± 0.385 (0.824)	pCi/L		09/22/22 16:49	
92623277011	YGWA-14S					
EPA 9315	Radium-226	0.0608 ± 0.106 (0.240) C:99% T:NA	pCi/L		09/21/22 18:12	
EPA 9320	Radium-228	0.360 ± 0.304 (0.605) C:81% T:90%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.421 ± 0.410 (0.845)	pCi/L		09/22/22 16:49	
92623277012	YGWA-1I					
EPA 9315	Radium-226	0.0430 ± 0.0679 (0.146) C:98% T:NA	pCi/L		09/21/22 18:12	
EPA 9320	Radium-228	0.447 ± 0.314 (0.593) C:78% T:94%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.490 ± 0.382 (0.739)	pCi/L		09/22/22 16:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads
Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277013	YGWA-47					
EPA 9315	Radium-226	0.367 ± 0.173 (0.233) C:98% T:NA	pCi/L		09/22/22 08:08	
EPA 9320	Radium-228	0.347 ± 0.308 (0.623) C:81% T:95%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.714 ± 0.481 (0.856)	pCi/L		09/22/22 16:49	
92623277014	YGWA-4I					
EPA 9315	Radium-226	0.625 ± 0.214 (0.185) C:97% T:NA	pCi/L		09/22/22 08:43	
EPA 9320	Radium-228	0.337 ± 0.338 (0.698) C:82% T:89%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.962 ± 0.552 (0.883)	pCi/L		09/22/22 16:49	
92623277015	YGWA-20S					
EPA 9315	Radium-226	0.126 ± 0.104 (0.183) C:96% T:NA	pCi/L		09/22/22 10:18	
EPA 9320	Radium-228	0.0579 ± 0.297 (0.681) C:81% T:91%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.184 ± 0.401 (0.864)	pCi/L		09/22/22 16:49	
92623277016	YGWA-39					
EPA 9315	Radium-226	0.642 ± 0.214 (0.200) C:97% T:NA	pCi/L		09/22/22 10:18	
EPA 9320	Radium-228	0.295 ± 0.310 (0.641) C:80% T:91%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.937 ± 0.524 (0.841)	pCi/L		09/22/22 16:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277017	YGWA-40					
EPA 9315	Radium-226	0.202 ± 0.139 (0.236) C:98% T:NA	pCi/L		09/22/22 10:18	
EPA 9320	Radium-228	0.311 ± 0.325 (0.675) C:77% T:95%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.513 ± 0.464 (0.911)	pCi/L		09/22/22 16:49	
92623277018	YGWA-3I					
EPA 9315	Radium-226	0.647 ± 0.215 (0.149) C:92% T:NA	pCi/L		09/22/22 10:19	
EPA 9320	Radium-228	0.687 ± 0.386 (0.703) C:80% T:89%	pCi/L		09/21/22 15:04	
Total Radium Calculation	Total Radium	1.33 ± 0.601 (0.852)	pCi/L		09/22/22 16:49	
92623277019	YGWA-3D					
EPA 9315	Radium-226	1.19 ± 0.306 (0.187) C:92% T:NA	pCi/L		09/22/22 12:51	
EPA 9320	Radium-228	0.927 ± 0.394 (0.629) C:81% T:92%	pCi/L		09/21/22 15:04	
Total Radium Calculation	Total Radium	2.12 ± 0.700 (0.816)	pCi/L		09/22/22 16:49	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-17S Lab ID: 92623277001 Collected: 08/30/22 15:40 Received: 08/31/22 11:03 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.114 ± 0.0935 (0.148) C:97% T:NA	pCi/L	09/21/22 16:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.964 ± 0.357 (0.496) C:79% T:96%	pCi/L	09/21/22 11:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.08 ± 0.451 (0.644)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-18S **Lab ID: 92623277002** Collected: 08/30/22 10:10 Received: 08/31/22 11:03 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	0.0688 ± 0.0906 (0.189) C:97% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.542 ± 0.287 (0.493) C:82% T:95%	pCi/L	09/21/22 11:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.611 ± 0.378 (0.682)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-181 **Lab ID: 92623277003** Collected: 08/30/22 13:35 Received: 08/31/22 11:03 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	0.0453 ± 0.0847 (0.194) C:91% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.961 ± 0.372 (0.555) C:81% T:93%	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.01 ± 0.457 (0.749)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: GWA-2 **Lab ID: 92623277004** Collected: 08/30/22 10:05 Received: 08/31/22 11:03 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	0.181 ± 0.124 (0.194) C:91% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.34 ± 0.454 (0.623) C:83% T:89%	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.52 ± 0.578 (0.817)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-5I **Lab ID: 92623277005** Collected: 08/30/22 10:52 Received: 08/31/22 11:03 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	0.0755 ± 0.109 (0.238) C:95% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.644 ± 0.326 (0.564) C:79% T:97%	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.720 ± 0.435 (0.802)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-5D Lab ID: 92623277006 Collected: 08/30/22 12:05 Received: 08/31/22 11:03 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	3.13 ± 0.626 (0.210) C:93% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	2.21 ± 0.587 (0.575) C:82% T:89%	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	5.34 ± 1.21 (0.785)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-211 **Lab ID: 92623277007** Collected: 08/30/22 14:30 Received: 08/31/22 11:03 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	0.307 ± 0.154 (0.202) C:92% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.959 ± 0.367 (0.535) C:81% T:92%	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.27 ± 0.521 (0.737)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-1D Lab ID: 92623277008 Collected: 08/30/22 13:50 Received: 08/31/22 11:03 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.248 ± 0.149 (0.239) C:94% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.579 ± 0.293 (0.483) C:82% T:88%	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.827 ± 0.442 (0.722)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-2I Lab ID: 92623277009 Collected: 08/30/22 10:00 Received: 08/31/22 11:03 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0872 ± 0.111 (0.234) C:93% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.612 ± 0.309 (0.528) C:83% T:94%	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.699 ± 0.420 (0.762)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-30I Lab ID: 92623277010 Collected: 08/31/22 11:30 Received: 09/01/22 09:05 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0454 ± 0.0594 (0.213) C:94% T:NA	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.506 ± 0.326 (0.611) C:81% T:92%	pCi/L	09/21/22 15:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.506 ± 0.385 (0.824)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-14S Lab ID: 92623277011 Collected: 08/31/22 14:15 Received: 09/01/22 09:05 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0608 ± 0.106 (0.240) C:99% T:NA	pCi/L	09/21/22 18:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.360 ± 0.304 (0.605) C:81% T:90%	pCi/L	09/21/22 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.421 ± 0.410 (0.845)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-11 **Lab ID: 92623277012** Collected: 08/31/22 09:10 Received: 09/01/22 09:05 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	0.0430 ± 0.0679 (0.146) C:98% T:NA	pCi/L	09/21/22 18:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.447 ± 0.314 (0.593) C:78% T:94%	pCi/L	09/21/22 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.490 ± 0.382 (0.739)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-47 **Lab ID: 92623277013** Collected: 08/31/22 09:15 Received: 09/01/22 09:05 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	0.367 ± 0.173 (0.233) C:98% T:NA	pCi/L	09/22/22 08:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.347 ± 0.308 (0.623) C:81% T:95%	pCi/L	09/21/22 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.714 ± 0.481 (0.856)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-4I **Lab ID: 92623277014** Collected: 08/31/22 15:37 Received: 09/01/22 09:05 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	0.625 ± 0.214 (0.185) C:97% T:NA	pCi/L	09/22/22 08:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.337 ± 0.338 (0.698) C:82% T:89%	pCi/L	09/21/22 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.962 ± 0.552 (0.883)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-20S Lab ID: 92623277015 Collected: 08/31/22 12:57 Received: 09/01/22 09:05 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.126 ± 0.104 (0.183) C:96% T:NA	pCi/L	09/22/22 10:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0579 ± 0.297 (0.681) C:81% T:91%	pCi/L	09/21/22 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.184 ± 0.401 (0.864)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-39 **Lab ID: 92623277016** Collected: 08/31/22 13:50 Received: 09/01/22 09:05 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	0.642 ± 0.214 (0.200) C:97% T:NA	pCi/L	09/22/22 10:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.295 ± 0.310 (0.641) C:80% T:91%	pCi/L	09/21/22 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.937 ± 0.524 (0.841)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-40 Lab ID: 92623277017 Collected: 08/31/22 16:40 Received: 09/01/22 09:05 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.202 ± 0.139 (0.236) C:98% T:NA	pCi/L	09/22/22 10:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.311 ± 0.325 (0.675) C:77% T:95%	pCi/L	09/21/22 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.513 ± 0.464 (0.911)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-3I **Lab ID: 92623277018** Collected: 08/31/22 10:54 Received: 09/01/22 09:05 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	0.647 ± 0.215 (0.149) C:92% T:NA	pCi/L	09/22/22 10:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.687 ± 0.386 (0.703) C:80% T:89%	pCi/L	09/21/22 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.33 ± 0.601 (0.852)	pCi/L	09/22/22 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Sample: YGWA-3D **Lab ID: 92623277019** Collected: 08/31/22 09:30 Received: 09/01/22 09:05 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	1.19 ± 0.306 (0.187) C:92% T:NA	pCi/L	09/22/22 12:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.927 ± 0.394 (0.629) C:81% T:92%	pCi/L	09/21/22 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.12 ± 0.700 (0.816)	pCi/L	09/22/22 16:49	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

QC Batch: 530872

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

METHOD BLANK: 2574649

Matrix: Water

Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0321 ± 0.0991 (0.243) C:97% T:NA	pCi/L	09/21/22 16:07	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

QC Batch: 530871

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

METHOD BLANK: 2574648

Matrix: Water

Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.757 ± 0.340 (0.552) C:80% T:96%	pCi/L	09/21/22 11:51	

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QUALIFIERS

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623277001	YGWA-17S	EPA 9315	530872		
92623277002	YGWA-18S	EPA 9315	530872		
92623277003	YGWA-18I	EPA 9315	530872		
92623277004	GWA-2	EPA 9315	530872		
92623277005	YGWA-5I	EPA 9315	530872		
92623277006	YGWA-5D	EPA 9315	530872		
92623277007	YGWA-21I	EPA 9315	530872		
92623277008	YGWA-1D	EPA 9315	530872		
92623277009	YGWA-2I	EPA 9315	530872		
92623277010	YGWA-30I	EPA 9315	530872		
92623277011	YGWA-14S	EPA 9315	530872		
92623277012	YGWA-1I	EPA 9315	530872		
92623277013	YGWA-47	EPA 9315	530872		
92623277014	YGWA-4I	EPA 9315	530872		
92623277015	YGWA-20S	EPA 9315	530872		
92623277016	YGWA-39	EPA 9315	530872		
92623277017	YGWA-40	EPA 9315	530872		
92623277018	YGWA-3I	EPA 9315	530872		
92623277019	YGWA-3D	EPA 9315	530872		
92623277001	YGWA-17S	EPA 9320	530871		
92623277002	YGWA-18S	EPA 9320	530871		
92623277003	YGWA-18I	EPA 9320	530871		
92623277004	GWA-2	EPA 9320	530871		
92623277005	YGWA-5I	EPA 9320	530871		
92623277006	YGWA-5D	EPA 9320	530871		
92623277007	YGWA-21I	EPA 9320	530871		
92623277008	YGWA-1D	EPA 9320	530871		
92623277009	YGWA-2I	EPA 9320	530871		
92623277010	YGWA-30I	EPA 9320	530871		
92623277011	YGWA-14S	EPA 9320	530871		
92623277012	YGWA-1I	EPA 9320	530871		
92623277013	YGWA-47	EPA 9320	530871		
92623277014	YGWA-4I	EPA 9320	530871		
92623277015	YGWA-20S	EPA 9320	530871		
92623277016	YGWA-39	EPA 9320	530871		
92623277017	YGWA-40	EPA 9320	530871		
92623277018	YGWA-3I	EPA 9320	530871		
92623277019	YGWA-3D	EPA 9320	530871		
92623277001	YGWA-17S	Total Radium Calculation	534811		
92623277002	YGWA-18S	Total Radium Calculation	534811		
92623277003	YGWA-18I	Total Radium Calculation	534811		
92623277004	GWA-2	Total Radium Calculation	534811		
92623277005	YGWA-5I	Total Radium Calculation	534811		
92623277006	YGWA-5D	Total Radium Calculation	534811		
92623277007	YGWA-21I	Total Radium Calculation	534811		
92623277008	YGWA-1D	Total Radium Calculation	534811		
92623277009	YGWA-2I	Total Radium Calculation	534811		
92623277010	YGWA-30I	Total Radium Calculation	534811		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Yates Pooled Upgradient Rads
Pace Project No.: 92623277

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623277011	YGWA-14S	Total Radium Calculation	534811		
92623277012	YGWA-11	Total Radium Calculation	534811		
92623277013	YGWA-47	Total Radium Calculation	534811		
92623277014	YGWA-4I	Total Radium Calculation	534811		
92623277015	YGWA-20S	Total Radium Calculation	534811		
92623277016	YGWA-39	Total Radium Calculation	534811		
92623277017	YGWA-40	Total Radium Calculation	534811		
92623277018	YGWA-3I	Total Radium Calculation	534811		
92623277019	YGWA-3D	Total Radium Calculation	534811		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



DC#_ Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Ga Power

Project:

WO#: 92623277



Courier: FedEx UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer:

IR Gun ID:

214

Type of Ice:

Wet Blue None

Cooler Temp:

1.9

Correction Factor: Add/Subtract (°C)

0.0

Cooler Temp Corrected (°C):

1.9

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

Date/Initials Person Examining Contents:

8/31/22 Jn

Biological Tissue Frozen?

Yes No N/A

Temp should be above freezing to 6°C

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

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:	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 checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

*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# : 92623277

PM: NMG

Due Date: 09/22/22

CLIENT: GA-GA Power

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)	BP45-125 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)	DG94-250 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)	DG9S-40 mL VOA H2SO4 (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-)	VGU-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)



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92623277

PM: NMG

Due Date: 09/22/22

CLIENT: GA-GA Power

*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)	DG94-250 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)	DG9S-40 mL VOA H2SO4 (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	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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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
 Email To: gauc@ga.com
 Phone: 470.620.5178 Fax: []
 Requested Date: []

Section B Required Project Information:
 Report To: SCS Contracts
 Copy To: Arcadis Contacts
 Purchase Order #: Plant Yields Pooled Upgrade
 Project Name: Plant Yields Pooled Upgrade
 Project Number: []

Section C Invoicing Information:
 Attention: Souffran Co.
 Company Name: []
 Address: []
 Plant Name: []
 Plant Project Manager: Nicole D'Onofrio
 Plant Phone #: []

Page: 1 of 1

ITEMS	MATRIX	CODE	SAMPLE TYPE (Q-DRAW & COMP)	COLLECTED		SAMPLE TIME AT COLLECTION	# OF CONTAINERS	PRESERVATIVES						App III (Qsystem only)	Received on (Y/M)	Sample (Y/N)	Coded (Y/N)	Checked (Y/N)
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	H2O2	Metformin					
YGWA-47	Water	WC G	Q-DRAW	8/30/06	-	-	5	2	3									
GWA-2	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-41	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-51	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-5D	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-17S	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-18S	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-181	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-20S	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-211	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-301	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-14S	Water	WG G	Q-DRAW	-	-	-	5	2	3									

ARCADIS
 819/122-800
 8/31/06
 Arcadis
 8/31/06 0800
 Ryan Williams / Pca
 8/31/06 1003
 Ryan Williams / Pca
 8/31/06 1153
 Ryan Williams / Pca
 8/31/06 1415

Signature of Sampler: Jeff Swanson
 Date Signed: 8/31/06

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: Arcaadis Contacts										Section C Inches Information: Attention: Southern Co. Company Name:										Page: 1 of 1			
Email To: lywoller@southernco.com										Purchase Order #:										Price Quote:													
Phone: 470.620.8178										Project Name: Pigmt Yelms Probed Upgraded										Price Project Manager: Nicole D'Ono													
Personnel Due Date:										Project Number:										Price Profile #:													
<p>SAMPLE ID One Character per box. (A-Z 0-9 / -)</p> <p>Example: 4A11-3</p> <p>Sample lab must be complete</p>	<p>Matrix Code (see field notes to left)</p> <p>WGC G</p>	<p>Batch Type (0-9)</p>	<p>START DATE TIME</p>	<p>END DATE TIME</p>	<p>SAMPLE TEMP AT COLLECTION</p>	<p># OF CONTAINERS</p>	Preservatives					<p>App I / II (Brylum only)</p>	<p>Received on</p>	<p>Temp</p>	<p>Controlled</p>	<p>Code</p>	<p>Initialed</p>																
							Item #	Matrix Code	Batch Type	START DATE	END DATE							SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	H3BO3	HNO3	HCl	NaOH	H2SO4	Other	App I / II (Brylum only)	Received on	Temp	Controlled	Code	Initialed		
							YGWA-47	WGC G											5 2	3													
							GWA-2	WGC G											8 2	3													
							YGWA-41	WGC G											6 2	3													
							YGWA-51	WGC G		8/10/2010 10:53									5 2	3													
							YGWA-5D	WGC G		8/10/2010 17:05									5 2	3													
							YGWA-17S	WGC G											5 2	3													
							YGWA-18S	WGC G											5 2	3													
							YGWA-18I	WGC G											5 2	3													
							YGWA-20S	WGC G											5 2	3													
							YGWA-21I	WGC G		8/10/2010 14:20									5 2	3													
							YGWA-30I	WGC G											5 2	3													
							YGWA-14S	WGC G											5 2	3													

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:		Section B Required Project Information:		Section C Invoice Information:	
Company: GA Power	Report To: SCS Controls	Project Name: Plant Yales Pooled Upgrade	Project Number:	Address:	City/State/Zip:
Address: Atlanta, GA	Copy To: Arcadis Controls	Project Name: Plant Yales Pooled Upgrade	Project Number:	Address:	City/State/Zip:
Send To: info@scsaffirm.com	Phone: 470.520.6176	Project Name: Plant Yales Pooled Upgrade	Project Number:	Address:	City/State/Zip:
Phone: 470.520.6176	Fax:	Project Name: Plant Yales Pooled Upgrade	Project Number:	Address:	City/State/Zip:
Requested Due Date:		Project Name: Plant Yales Pooled Upgrade	Project Number:	Address:	City/State/Zip:

Page: 1 of 1

ITEM #	MATRIX CODE (see vial order to kit)	SAMPLE TYPE (G-ORAS G-COMP)	COLLECTED		DMPLE TRMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES	App II / IV Metals	C.F. SQA	TDS (25401)	RAD (215/232)	App I / II (Beryllium only)	Residual Charge (VM)	Packaged on (VM)	Custody	Control	Weight (VM)	
			START DATE TIME	END DATE TIME														
1	YGWA-39	WC G			8/31/12 8:00	5	Unpreserved	X	X	X	X	X						
2	YGWA-40	WC G			8/31/12 8:00	5	Unpreserved	X	X	X	X	X						
3	YGWA-11	WC G			8/31/12 8:00	5	Unpreserved	X	X	X	X	X						
4	YGWA-1D	WC G	8:50		8/31/12 10:03	5	Unpreserved	X	X	X	X	X						
5	YGWA-2I	WC G	10:00		8/31/12 10:03	5	Unpreserved	X	X	X	X	X						
6	YGWA-3I	WC G			8/31/12 10:03	5	Unpreserved	X	X	X	X	X						
7	YGWA-3D	WC G			8/31/12 10:03	5	Unpreserved	X	X	X	X	X						

SAMPLE ID
One Character per box.
(A-Z, 0-9, -, /)

MATRIX CODE
Deriving from:
Matrix
Media
Sample
App
Other

Address: 33010 (C), F, Sullivan
App II Matrix: Guron 012020 Ca 60 110:
App I Matrix: Guron 012020 Zn, As, M, V
App IV Matrix: Guron 012020 Arsenic (As), Barium (Ba),
Selenium (Se), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb),
Lithium (Li), Manganese (Mn), Mercury (Hg), Strontium (Sr)
Zinc (Zn), Mercury (Hg)

Wheeler Carson Area
Wheeler Area
Wheeler Area
Wheeler Area

8/31/12 8:00
8/31/12 10:03
8/31/12 10:03
8/31/12 10:03

Wheeler Area
Wheeler Area
Wheeler Area
Wheeler Area

Wheeler Area
Wheeler Area
Wheeler Area
Wheeler Area

Wheeler Area
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Wheeler Area

332707
3726

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: lavacost@southernco.com
 Phone: 470.620.6176
 Requested Due Date:

Section B
 Required Project Information:
 Report To: SCS Contracts
 Copy To: Arcadis Contacts
 Purchase Order #: Plant Yates Pooled Upgrade
 Project Name: Nicole D'Orso
 Project Number: 10840

Section C
 Location Information:
 Address: Southern Co.
 Company Name:
 Plant Code:
 Plant Project Manager: Nicole D'Orso
 Plant Profile #: 10840

Page: 4 of 2

ITEM #	MATRIX TYPE (see field order to left)	SAMPLE TYPE (e.g. SNA, C-COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLER TRIP AT COLLECTION	LADDERED	APP III / IV Matrix	APP II (250C)	APP I II (ppium only)	RESIDUAL CHECKS (Y/N)	RECEIVED ON	COOL	TEST	REMARKS
			START	END														
YGWA-39	WC G																	
YGWA-40	WC G																	
YGWA-11	WC G																	
YGWA-1D	WC G																	
YGWA-21	WC G																	
YGWA-31	WC G																	
YGWA-30	WC G																	

Section D
 Analysis Suite: 300.0 (C, F, Sulfide)
 App III Matrix: 6000: 2h, Ag, Ni, V
 App IV Matrix: 6000: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Uranium (U), Hydrogenium (Hb), Selenium (Se)
 (7000): Mercury (Hg)

Section E
 Date: 9/1/22
 Time: 10:55
 Location: Plant Yates
 Operator: Kyle Williams
 Signature: [Signature]
 Date Signed: 9/1/22

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: blanchard@southernco.com
 Phone: 470.620.6176
 Requested Due Date:

Section B

Required Project Information:

Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Purchase Order #:
 Project Name: Plant Yalob Pooled Upgrade
 Project Number: 10840

Section C

Invoice Information:

Client: Southern Co.
 Company Name:
 Address:
 City:
 State:
 Zip:
 Project Manager: Nicole D'Ono
 Project Email: 10840

Page: 1 of 1

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (A-DRAW C-DRAW)	COLLECTED		DATE	TIME	DATE	TIME	9 OF CONTAINERS	PRESERVATIVES	APR III (Ispenm only)	RAD B315/320	TPS (2340C)	CL F. 804	APR III / IV Metals	Received on	Temp in C	Samples (Y/N)	Sealed (Y/N)	Coded (Y/N)	Labeled (Y/N)
			START	END																	
YGWA-39	WG G	G	8/16/13	1357	-	-	-	-	5	2	3	X	X	X	X	8/16/13	5.30				
YGWA-40	WG G	G	8/16/13	1410	-	-	-	-	5	2	3	X	X	X	X	8/16/13	4.53				
YGWA-11	WG G	G	-	-	-	-	-	-	5	2	3	X	X	X	X						
YGWA-1D	WG G	G	-	-	-	-	-	-	5	2	3	X	X	X	X						
YGWA-21	WG G	G	-	-	-	-	-	-	5	2	3	X	X	X	X						
YGWA-31	WG G	G	-	-	-	-	-	-	5	2	3	X	X	X	X						
YGWA-3D	WG G	G	-	-	-	-	-	-	5	2	3	X	X	X	X						

Analysis Suite 300.0 (CL F. Subtle)
 App B Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se)
 App N: Metals (Sb), Arsenic (As), Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se)
 Road: Mercury (Hg)

Signature: Ryan Williams / Pace
 Date: 9/11/22
 Signature: Ryan Williams / Pace
 Date: 9/12/22

Signature: *[Signature]*
 Date: 9/12/22

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: Of	
Section A Required Client Information: Company: GA Power Address: Atlanta, GA Email To: jaucoker@southernco.com Phone: 470.620.6176 Requested Due Date:	Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Purchase Order #: Project Name: Plant Yates Pooled Upgradient Project Number:
Section C Invoice Information: Attention: Southern Co. Company Name: Address: Pace Quote: Pace Project Manager: Nicole D'Olivo Pace Profile #: 10840 State / Location: Georgia Regulatory Agency:	

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE (see trail codes to left)	# OF CONTAINERS	PRESERVATIVES										Y/N	Analyzed Test	TDS (2540C) Cl, F, SO4 App III/IV Metals RAD 9315/9320	App I / II (gypsum only)	DATE	TIME	RECEIVED ON	TEMP in C	Samples Intact (Y/N)	Sealed (Y/N)	Custody (Y/N)						
			START	END				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	TDS (2540C)	Cl, F, SO4												RAD 9315/9320					
			DATE	TIME				DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME												DATE	TIME	DATE	TIME		
1	YGWA-47	WG G1	8/30/21	1420	G		5	2	3									8/31/21	1003															
2	GWA-2	WG G1			G		5	2	3																									
3	YGWA-41	WG G1			G		5	2	3																									
4	YGWA-51	WG G1	8/30/21	1052	G		5	2	3																									
5	YGWA-5D	WG G1	8/30/21	1205	G		5	2	3																									
6	YGWA-17S	WG G1			G		5	2	3																									
7	YGWA-18S	WG G1			G		5	2	3																									
8	YGWA-181	WG G1			G		5	2	3																									
9	YGWA-20S	WG G1			G		5	2	3																									
10	YGWA-211	WG G1	8/30/21	1420	G		5	2	3																									
11	YGWA-301	WG G1			G		5	2	3																									
12	YGWA-14S	WG G1			G		5	2	3																									

ADDITIONAL COMMENTS
 Arcadis
 Ryan Williams
 Arcadis
 Ryan Williams
 Arcadis

ACCEPTED BY / AFFILIATION
 Ryan Williams / Arcadis
 Ryan Williams / Arcadis

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Ryan Williams
 SIGNATURE of SAMPLER: *[Signature]*

DATE SIGNED: 8/31/21

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
Email To:	lalucoker@southernco.com	Purchase Order #:		Address:	
Phone:	470.620.6176	Project Name:	Plant Yates Pooled Upgradient	Plant Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Plant Profile #:	10840
				Regulatory Agency	
				State / Location	
				Georgia	

ITEM #	MATRIX	CODE	COLLECTED	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	TEMP in C	Received on	Sealed	Cooler	Intact
1	YGWA-39	WG G	START DATE TIME	Wheeler Carson / Arcadis	8/31/12	800	Wheeler Carson / Arcadis	8/31/12	800						
2	YGWA-40	WG G													
3	YGWA-11	WG G													
4	YGWA-1D	WG G	8/30 1850	Wheeler Carson / Arcadis	8/30/12	1850	Wheeler Carson / Arcadis	8/30/12	1850						
5	YGWA-2I	WG G	8/30 1000	Wheeler Carson / Arcadis	8/30/12	1000	Wheeler Carson / Arcadis	8/30/12	1000						
6	YGWA-3I	WG G													
7	YGWA-3D	WG G													
8															
9															
10															
11															
12															

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME	
Anions Suite 300.0 (Cl, F, Sulfate)		Wheeler Carson / Arcadis		8/31/12		800		Wheeler Carson / Arcadis		8/31/12		800	
App III Metals: Boron 6020B, Ca 6010D;		Wheeler Carson / Arcadis		8/31/12		1803		Ryan Williams / Pace		8/31/12		1803	
App I/II 6020B; Zn, Ag, Ni, V		Ryan Williams / Pace		8/31/12		1853		Ryan Williams / Pace		8/31/12		1853	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Mercury (Hg), Selenium (Se), Vanadium (V)		Ryan Williams / Pace		8/31/12		1853		Ryan Williams / Pace		8/31/12		1853	

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Wheeler Carson
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 8/31/12



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92623277

PM: NMG

Due Date: 09/22/22

CLIENT: GA-GA Power

Courier: Commercial Fed Ex UPS USPS Client Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/1/22

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: 2.5 Correction Factor: Add/Subtract (°C) 6.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.5

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:	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

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

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
 Section C Invoice Information: Attention: Southern Co. Company Name: Pico Quota: Pico Project Manager: Nicole D'Orleo Pico Profile #: 10840
 Regulatory Agency: Georgia State / Location: Georgia

Section A: Email To: jauckker@southernco.com Phone: 470.620.8176 Fax: Requested Due Date: Purchase Order #: Plant Yates Pooled Upgrademnt Project Name: Project Number: Pico Quota: Pico Project Manager: Nicole D'Orleo Pico Profile #: 10840
 Section B: Report To: SCS Contacts Copy To: Arcadis Contacts
 Section C: Attention: Southern Co. Company Name: Pico Quota: Pico Project Manager: Nicole D'Orleo Pico Profile #: 10840
 Regulatory Agency: Georgia 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 Water Wash Water Product Sewage Air Other Tissue</small>	CODE <small>DW WT WW P SL WP AR OT TS</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Requested Analysis Method (RAM)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS																
						START	END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other	Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)							
1	YGWA-39								5	2	3																									
2	YGWA-40								5	2	3																									
3	YGWA-11								5	2	3																									
4	YGWA-1D								5	2	3																									
5	YGWA-21								5	2	3																									
6	YGWA-31								5	2	3																									
7	YGWA-3D								5	2	3																									
8																																				
9																																				
10																																				
11																																				
12																																				

ADDITIONAL COMMENTS: Relinquished by / Affiliation: Date: Time: Accepted by / Affiliation: Date: Time: Sampler Name and Signature: Print Name of Sampler: Signature of Sampler: Date Signed: 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:	Section B Required Project Information:			Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Company Name: Southern Co.	Attention: Southern Co.	
Address: Atlanta, GA	Copy To: Arcadis Contacts	Address:	Regulatory Agency:	
Requester: laucke@southernco.com	Purchase Order #:	Pace Quote:	State / Location: Georgia	
Phone: 470.620.6176	Project Name: Plant Yates Pooled Upgrade	Pace Project Manager: Nicole D'Olivo		
Requested Due Date:	Project Number:	Pace Profile #: 10840		

Page: 1 of 2

ITEM #	MATRIX	MATRIX CODE	SAMPLE TYPE (G-GRAB, C-COMP)	COLLECTED		DATE	TIME	# OF CONTAINERS	PRESERVATIVES							ANALYSIS TEST Y/N	App I / II (gypsum only)	Residual Chlorine (Y/N)	pH:	pH:	pH:	pH:	pH:	pH:	pH:	pH:	pH:	pH:	pH:	pH:	pH:			
				START DATE	END DATE				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Mercuric	Other																			
1	Drinking Water	WG	G					5	2	3					X	X	X																	
2	Waste Water	WG	G					5	2	3					X	X	X																	
3	Waste Water	WG	G	8/31	12:37			5	2	3					X	X	X																	
4	Product	WG	G					5	2	3					X	X	X																	
5	Soft Solid	WG	G					5	2	3					X	X	X																	
6	Other	WG	G					5	2	3					X	X	X																	
7	Wipes	WG	G					5	2	3					X	X	X																	
8	Other	WG	G					5	2	3					X	X	X																	
9	Tissue	WG	G	8/31	12:57			5	2	3					X	X	X																	
10		WG	G					5	2	3					X	X	X																	
11		WG	G					5	2	3					X	X	X																	
12		WG	G					5	2	3					X	X	X																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	<i>Evan Williams / Pace</i>	8/1/22	07:00	<i>William / Pace</i>	8/1/22	08:00
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V	<i>Evan Williams / Pace</i>	8/1/22	07:12	<i>Evan Williams / Pace</i>	8/1/22	09:15
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)	<i>Evan Williams / Pace</i>	8/1/22	10:55	<i>Evan Williams / Pace</i>	8/1/22	10:55

TEMP in C	Received on	Isolation	Sealed Cooler	Intact (Y/N)

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <i>William / Pace</i> SIGNATURE of SAMPLER: 	DATE Signed: <i>9/1/22</i>
---	----------------------------

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: Allantia, GA Email To: laucoker@southernpo.com Phone: 470.620.6176 Fax Requested Due Date:	Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Purchase Order #: Plant Yates Pooled Upgradient Project Name: Project Number:
Section C Invoice Information: Attention: Southern Co. Company Name: Address: Pace Quote: 10840 Pace Project Manager: Nicole D'Oleo Pace Profile #: 10840 Georgia	
Page: 1 Of 1	

ITEM #	MATRIX	CODE	COLLECTED	DATE	TIME	DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
1	Drinking Water	DWA		8/31/24	1350									
2	Waste Water	WW		8/31/24	1440									
3	Waste Water Product	WWP												
4	Spot/Grab	P												
5	Oil	OL												
6	Wipe	WP												
7	Other	OT												
8	Thine	TS												
9														
10														
11														
12														

ADDITIONAL COMMENTS Antons Suite 300.0 (Cl, F, Sulfate) App III Metals: Boron 6020B, Ca 6010D, App VII 6020B: Zn, Ag, Ni, V App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Mercury (Hg), 7040A: Mercury (Hg)	Requested Analysis Filtered (Y/N) App I / II (GP/sum only) Residual Chlorine (Y/N)
SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	ANALYSES TEST App III / IV Metals Cl, F, SO4 TDS (2540C) RAD 9315/9320
PRESERVATIVES H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	# OF CONTAINERS Unpreserved 3 3 3 3 3 3 3 3 3 3
RELINQUISHED BY / AFFILIATION Ryan Williams / Pace Ryan Williams / Pace	ACCEPTED BY / AFFILIATION Ryan Williams / Pace
DATE 9/1/24 9/1/22	DATE 9/1/22 9/1/22
TIME 1055	TIME 0905
SIGNATURE OF SAMPLER: [Signature]	DATE SIGNED: 9/1/22
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE OF SAMPLER:	TEMP in C Received on (Y/N) Sealed (Y/N) Cooler (Y/N) Intact Samples (Y/N)

Appendix C

Statistical Analysis (February and August/September 2022)

Appendix III Statistically Significant Increase Summary (February 2022)

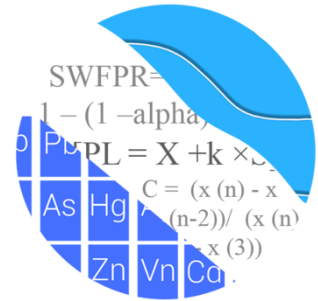
Appendix III Parameter	Monitoring Wells
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S

Appendix III Statistically Significant Increase Summary (August/September 2022)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S
Total Dissolved Solids (TDS)	YGWC-26I, YGWC-28S

February 2022

GROUNDWATER STATS CONSULTING



August 31, 2022

Southern Company Services
Attn: Ms. Lauren Coker
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Yates Ash Pond 2 (AP-2)
February 2022 Statistical Analysis

Dear Ms. Coker,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2022 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates AP-2. 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-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29I

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed Kristina Rayner, Founder and Senior Statistician to 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 containing 100% non-detects follows this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters. The absence of samples from upgradient wells will affect the sample size of the combined background data set that is used for interwell limits among all units at Plant Yates; however, the calculated limits should not be affected greatly.

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. In time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group. 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.

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 background screening performed in 2017 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 on downgradient well data compared against Groundwater Protections Standards (GWPS) for Appendix IV constituents

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 in background, 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. 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 careful 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 Update – Appendix III and IV Constituents - Conducted in March 2020

Outlier Analysis

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Interwell prediction limits, combined with a 1-of-2 resample plan, were recommended. During the March 2020 1st semi-annual analysis, data were screened for the purpose of updating the statistical limits as described below.

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. Suspected outliers at upgradient wells for Appendix III and all wells for Appendix IV parameters are 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.

Using the Tukey box plot method, a couple outliers were identified. While this is not the case in the present data set, when the most recent value is identified as an outlier, values are not flagged in the database at this time as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. 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.

Only one of the outliers identified by Tukey's method (combined radium 226 + 228 in downgradient well YGWC-26I) was flagged in the database as all other values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. 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. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit. A summary of outlier results follows this letter (Figure C).

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 test was used to evaluate all data at upgradient wells for Appendix III parameters and all wells for Appendix IV parameters to identify statistically significant increasing or decreasing. 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. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses for the Appendix III and IV parameters showed statistically significant decreasing trends for a handful of constituents and statistically significant increasing trends for calcium, cobalt, combined radium 226 + 228, and sulfate. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period is short with only three years of record, making it difficult to separate trends from normal year-to-year variation; therefore, no adjustments were made to the data sets. If the observed decreasing or increasing trends persist over a longer time frame, some records may need to be truncated.

Statistical Analysis of Appendix III Parameters – February 2022

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. No new outliers were flagged for Appendix III parameters.

The reported measurement of 451 mg/L for sulfate in well YGWC-27S during the March 2021 sample event was considerably higher than remaining measurements at this well. This value was not flagged as outlier, but if further review demonstrates this value to be anomalous, it will be flagged as an outlier in the database. 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).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through February 2022 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2022 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 and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29I
- Chloride: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, and YGWC-28S

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen’s Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses 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 natural variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following downgradient and associated upgradient well/constituent pairs:

Increasing:

- Chloride: YGWA-17S and YGWA-20S (both upgradient)

Decreasing:

- Boron: YGWA-40 (upgradient), YGWC-26I, and YGWC-29I
- Chloride: YGWA-3D (upgradient), YGWA-3I (upgradient), YGWA-47 (upgradient), YGWA-5D (upgradient), YGWC-26S, YGWC-27S, and YGWC-28I

A complete list of trend test results and all statistically significant increasing and decreasing trends may be found following this letter in the Trend Test Summary Table.

Statistical Analysis of Appendix IV Parameters – February 2022

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. Well/constituent pairs that have 100% non-detects or trace values below the reporting limits do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

A high value of 0.072 mg/L for cobalt at upgradient well GWA-2 from the February 2022 sample event was flagged in order to maintain statistical limits that are conservative (i.e.

lower) from a regulatory perspective. The reported measurements since August 2020 were previously flagged as they were two orders of magnitude higher than remaining measurements at this well. If further studies indicate these measurements represent natural variation in groundwater quality, the values will be included in construction of interwell prediction limits. A summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2022 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. 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 G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through February 2022 were constructed for each of the Appendix IV constituents in each downgradient well with 4 or more samples (Figure H).

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, as appropriate. Confidence intervals were compared to the GWPS prepared as described above. 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.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates AP-2. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew T. Collins
Project Manager



Kristina L. Rayner
Groundwater Statistician

100% Non-Detects: Appendix IV Downgradient

Analysis Run 4/27/2022 1:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Antimony (mg/L)
YGWC-28I, YGWC-28S

Beryllium (mg/L)
YGWC-26I, YGWC-28I, YGWC-28S, YGWC-29I

Cadmium (mg/L)
YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S

Cobalt (mg/L)
YGWC-26I

Lead (mg/L)
YGWC-27I, YGWC-28I

Lithium (mg/L)
YGWC-26S

Molybdenum (mg/L)
YGWC-26I, YGWC-26S, YGWC-27S

Selenium (mg/L)
YGWC-27I, YGWC-27S, YGWC-29I

Thallium (mg/L)
YGWC-26I, YGWC-27I, YGWC-28I, YGWC-28S, YGWC-29I

Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N	Bg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	2/10/2022	0.79	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality)	1 of 2	
Boron (mg/L)	YGWC-26S	0.16	n/a	2/10/2022	0.79	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality)	1 of 2	
Boron (mg/L)	YGWC-27I	0.16	n/a	2/10/2022	2.5	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality)	1 of 2	
Boron (mg/L)	YGWC-27S	0.16	n/a	2/8/2022	1.1	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality)	1 of 2	
Boron (mg/L)	YGWC-28I	0.16	n/a	2/8/2022	2.4	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality)	1 of 2	
Boron (mg/L)	YGWC-28S	0.16	n/a	2/8/2022	2.4	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality)	1 of 2	
Boron (mg/L)	YGWC-29I	0.16	n/a	2/8/2022	0.71	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality)	1 of 2	
Chloride (mg/L)	YGWC-26I	10.9	n/a	2/10/2022	15.4	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality)	1 of 2	
Chloride (mg/L)	YGWC-26S	10.9	n/a	2/10/2022	14	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality)	1 of 2	
Chloride (mg/L)	YGWC-27I	10.9	n/a	2/10/2022	13.1	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality)	1 of 2	
Chloride (mg/L)	YGWC-27S	10.9	n/a	2/8/2022	13	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality)	1 of 2	
Chloride (mg/L)	YGWC-28I	10.9	n/a	2/8/2022	15.2	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality)	1 of 2	
Chloride (mg/L)	YGWC-28S	10.9	n/a	2/8/2022	18.3	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality)	1 of 2	

Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:48 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	2/10/2022	0.79	Yes	331	n/a	n/a	48.04	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/10/2022	0.79	Yes	331	n/a	n/a	48.04	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/10/2022	2.5	Yes	331	n/a	n/a	48.04	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/8/2022	1.1	Yes	331	n/a	n/a	48.04	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/8/2022	2.4	Yes	331	n/a	n/a	48.04	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/8/2022	2.4	Yes	331	n/a	n/a	48.04	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	2/8/2022	0.71	Yes	331	n/a	n/a	48.04	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26I	37	n/a	2/10/2022	16.4	No	331	n/a	n/a	0.9063	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	2/10/2022	11.6	No	331	n/a	n/a	0.9063	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	2/10/2022	27.4	No	331	n/a	n/a	0.9063	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	2/8/2022	27.2	No	331	n/a	n/a	0.9063	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	2/8/2022	31.8	No	331	n/a	n/a	0.9063	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	2/8/2022	26.7	No	331	n/a	n/a	0.9063	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	2/8/2022	9.3	No	331	n/a	n/a	0.9063	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	10.9	n/a	2/10/2022	15.4	Yes	331	n/a	n/a	0	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	10.9	n/a	2/10/2022	14	Yes	331	n/a	n/a	0	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	10.9	n/a	2/10/2022	13.1	Yes	331	n/a	n/a	0	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	10.9	n/a	2/8/2022	13	Yes	331	n/a	n/a	0	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	10.9	n/a	2/8/2022	15.2	Yes	331	n/a	n/a	0	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	10.9	n/a	2/8/2022	18.3	Yes	331	n/a	n/a	0	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	10.9	n/a	2/8/2022	5.5	No	331	n/a	n/a	0	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	2/10/2022	0.059J	No	400	n/a	n/a	67.5	n/a	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	2/8/2022	0.087J	No	400	n/a	n/a	67.5	n/a	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	2/8/2022	0.063J	No	400	n/a	n/a	67.5	n/a	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	2/8/2022	0.14	No	400	n/a	n/a	67.5	n/a	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	2/8/2022	0.053J	No	400	n/a	n/a	67.5	n/a	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	2/10/2022	5.84	No	410	n/a	n/a	0	n/a	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	2/10/2022	5.31	No	410	n/a	n/a	0	n/a	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	2/10/2022	6.23	No	410	n/a	n/a	0	n/a	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	2/8/2022	6.22	No	410	n/a	n/a	0	n/a	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	2/8/2022	6.34	No	410	n/a	n/a	0	n/a	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	2/8/2022	6.3	No	410	n/a	n/a	0	n/a	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	8.39	4.4	2/8/2022	5.88	No	410	n/a	n/a	0	n/a	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	2/10/2022	81.8	No	331	n/a	n/a	6.042	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	2/10/2022	86.5	No	331	n/a	n/a	6.042	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	2/10/2022	2.4	No	331	n/a	n/a	6.042	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	2/8/2022	16.3	No	331	n/a	n/a	6.042	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	2/8/2022	8.1	No	331	n/a	n/a	6.042	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	2/8/2022	10.5	No	331	n/a	n/a	6.042	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	2/8/2022	22.9	No	331	n/a	n/a	6.042	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	221.1	n/a	2/10/2022	207	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-26S	221.1	n/a	2/10/2022	168	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-27I	221.1	n/a	2/10/2022	190	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-27S	221.1	n/a	2/8/2022	159	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-28I	221.1	n/a	2/8/2022	206	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-28S	221.1	n/a	2/8/2022	216	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-29I	221.1	n/a	2/8/2022	120	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2	

Appendix III Trend Test Summary - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:53 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWC-26I	-0.04006	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.02921	-79	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.05275	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.03927	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.6877	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27S	-1.358	-121	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28I	-0.5198	-92	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4996	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5046	109	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1624	93	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.8339	-113	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:53 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.0004307	-27	-68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0003452	22	68	No	18	33.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-11 (bg)	0	-13	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21 (bg)	0	-10	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-22	-68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-68	No	18	55.56	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-19	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26I	-0.04006	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26S	0.01343	45	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.06976	49	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	-0.03227	-34	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	0	-1	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	0.002972	11	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.02921	-79	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0007235	-42	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.00005921	8	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-26	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0001172	14	68	No	18	22.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-11	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-46	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.007949	41	53	No	15	6.667	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-5	-68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	26	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-32	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	17	58	No	16	62.5	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1623	47	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.01968	-51	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-11 (bg)	-0.02497	-49	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.03702	-46	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-15	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.05275	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.03927	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.4093	-64	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.6877	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27I	0	-17	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27S	-1.358	-121	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28I	-0.5198	-92	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28S	-0.1931	-31	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4996	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5046	109	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.0841	61	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.1771	67	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1624	93	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21I (bg)	-0.1442	-57	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.6239	40	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2865	51	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.08324	35	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.8339	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5I (bg)	0	1	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2307	58	58	No	16	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a	353	n/a	n/a	87.25	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	401	n/a	n/a	75.06	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a	401	n/a	n/a	2.743	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	385	n/a	n/a	80.26	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a	385	n/a	n/a	95.58	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a	353	n/a	n/a	79.6	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a	396	n/a	n/a	69.19	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a	380	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a	400	n/a	n/a	67.5	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a	355	n/a	n/a	84.51	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	380	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	309	n/a	n/a	93.2	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a	344	n/a	n/a	60.17	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	383	n/a	n/a	91.91	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	319	n/a	n/a	96.87	n/a	n/a	NaN	NP Inter(NDs)

YATES ASH POND 2 GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
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		0.071	2
Beryllium, Total (mg/L)	0.004		0.0005	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		0.0002	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*

Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.00059	0.006	No	17	0.002712	0.0008121	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	17	0.002841	0.0004487	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	17	0.002843	0.0006476	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	17	0.002841	0.0006548	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	17	0.0029	0.0004123	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	No	21	0.004895	0.0004801	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	No	21	0.004914	0.0003928	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	21	0.003307	0.002126	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	No	21	0.004852	0.0006765	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	No	21	0.004862	0.0006328	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.0007	0.01	No	21	0.00332	0.002123	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29I	0.005	0.0033	0.01	No	21	0.004919	0.000371	95.24	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06607	0.0627	2	No	21	0.06439	0.003054	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02872	0.02632	2	No	21	0.02752	0.002175	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.08	0.063	2	No	21	0.07016	0.007752	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1033	0.09001	2	No	21	0.09663	0.01201	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08942	0.08354	2	No	21	0.08648	0.005329	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2217	0.1958	2	No	21	0.2043	0.03757	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0741	0.057	2	No	21	0.07251	0.03261	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.0001	0.004	No	19	0.0001821	0.0001199	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00013	0.004	No	19	0.0002235	0.0001312	15.79	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	19	0.0004566	0.0001301	89.47	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.00043	0.0001	0.005	No	19	0.0002479	0.0001701	10.53	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	19	0.0004989	0.00004588	94.74	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002257	0.0001389	0.005	No	19	0.0002526	0.0001256	15.79	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	19	0.003392	0.002155	57.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002127	0.001045	0.1	No	19	0.002578	0.001725	21.05	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	19	0.005368	0.001606	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	19	0.004655	0.003012	68.42	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	19	0.004285	0.001697	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	19	0.004294	0.001675	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	19	0.004763	0.001032	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002719	0.001886	0.035	No	21	0.002343	0.0008244	4.762	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.0147	0.003357	0.035	No	21	0.01725	0.02581	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	21	0.002448	0.0006416	4.762	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	21	0.004782	0.0009994	95.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00091	0.035	No	21	0.001378	0.001211	9.524	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.00094	0.035	No	21	0.003955	0.001918	76.19	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.066	0.4848	6.92	No	20	0.7754	0.5117	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8492	0.5341	6.92	No	21	0.6917	0.2857	4.762	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.883	2.537	6.92	No	21	3.21	1.221	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.041	0.6603	6.92	No	21	0.8504	0.3446	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.261	6.92	No	21	0.6556	0.3485	4.762	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9441	0.5386	6.92	No	21	0.7413	0.3675	4.762	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.094	0.6509	6.92	No	21	0.8723	0.4013	4.762	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	No	22	0.08409	0.02065	45.45	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	22	0.1302	0.09494	72.73	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.1	0.07	4	No	22	0.09055	0.02574	54.55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.1919	0.09792	4	No	22	0.1575	0.1014	18.18	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.12	0.078	4	No	22	0.1232	0.07937	22.73	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2565	0.1516	4	No	22	0.204	0.09764	9.091	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.08932	0.05868	4	No	22	0.08573	0.03079	31.82	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	17	0.0008888	0.0003138	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.00008	0.015	No	17	0.0007265	0.0004369	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.00037	0.015	No	17	0.0007881	0.0003597	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.00007	0.015	No	17	0.0007244	0.0004402	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.015	No	17	0.0008424	0.0003513	82.35	None	No	0.01	NP (NDs)

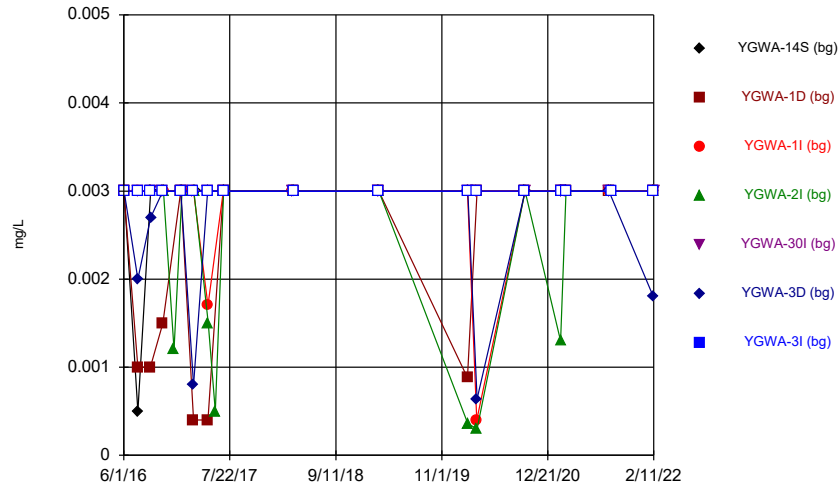
Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:39 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	YGWC-26I	0.007307	0.006607	0.04	No	21	0.006957	0.0006345	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.0101	0.007874	0.04	No	21	0.008986	0.002015	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	21	0.02724	0.008707	90.48	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.0071	0.00668	0.04	No	21	0.00689	0.0003807	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	21	0.02882	0.00539	95.24	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0066	0.0053	0.04	No	21	0.00711	0.005308	4.762	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	No	15	0.0001801	0.00005243	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	No	15	0.000181	0.00005024	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	No	15	0.0001799	0.00005298	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.000049	0.002	No	15	0.0001793	0.00005456	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	No	15	0.0001899	0.00003925	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	No	15	0.0001901	0.00003821	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29I	0.0002	0.000047	0.002	No	15	0.0001791	0.00005526	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.1	No	21	0.005662	0.004282	47.62	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	21	0.004995	0.004443	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	No	21	0.007795	0.004042	76.19	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	No	21	0.009563	0.002001	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0034	0.0018	0.05	No	19	0.002574	0.001081	10.53	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	19	0.004174	0.001658	78.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	19	0.0048	0.0008718	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	19	0.004789	0.0009177	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	15	0.0008741	0.0003322	86.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No	15	0.000642	0.0004539	60	None	No	0.01	NP (NDs)

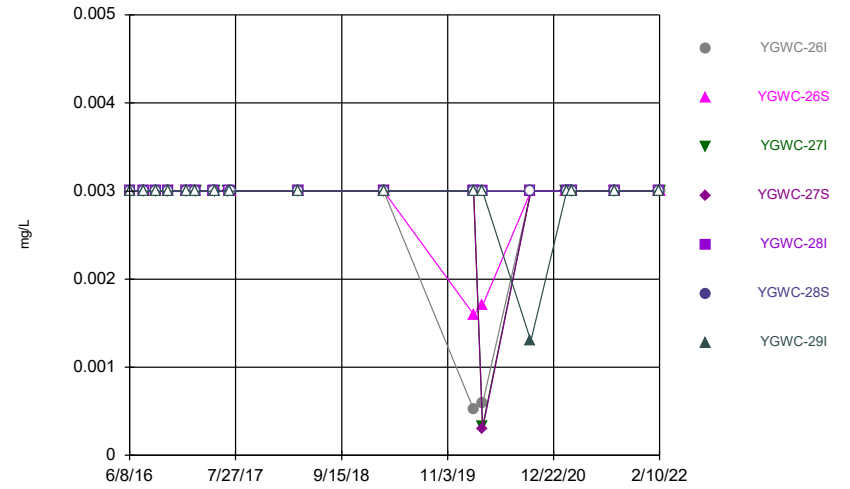
FIGURE A.

Time Series



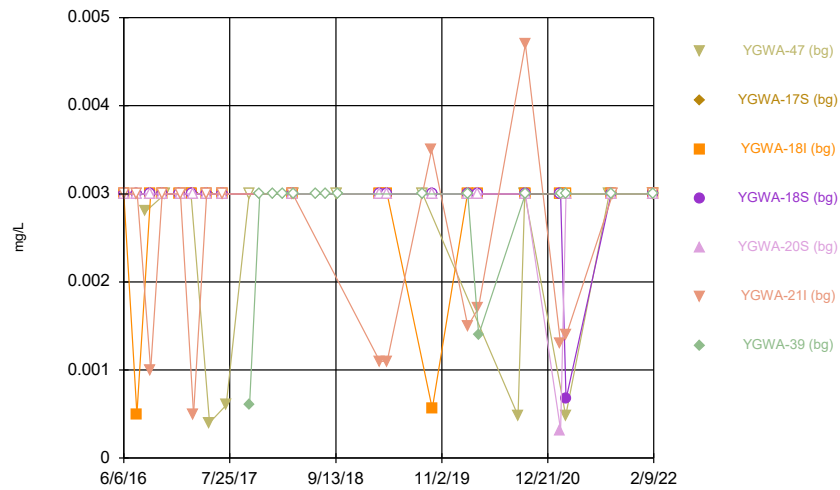
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



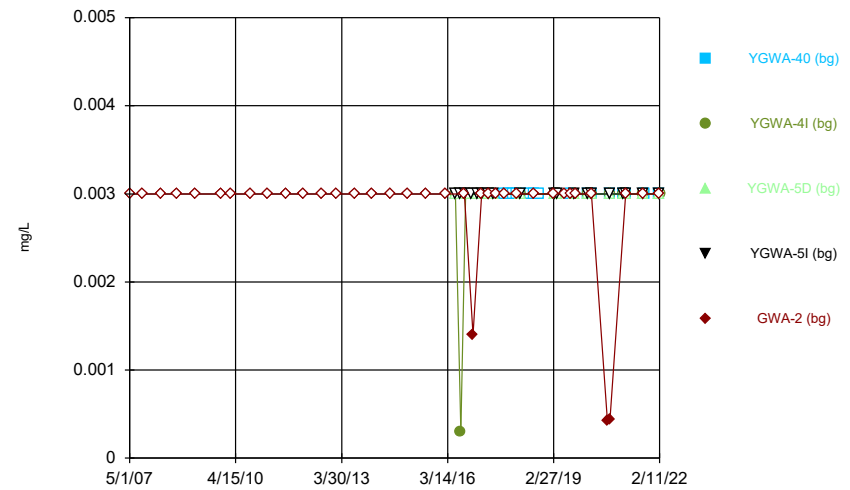
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Time Series



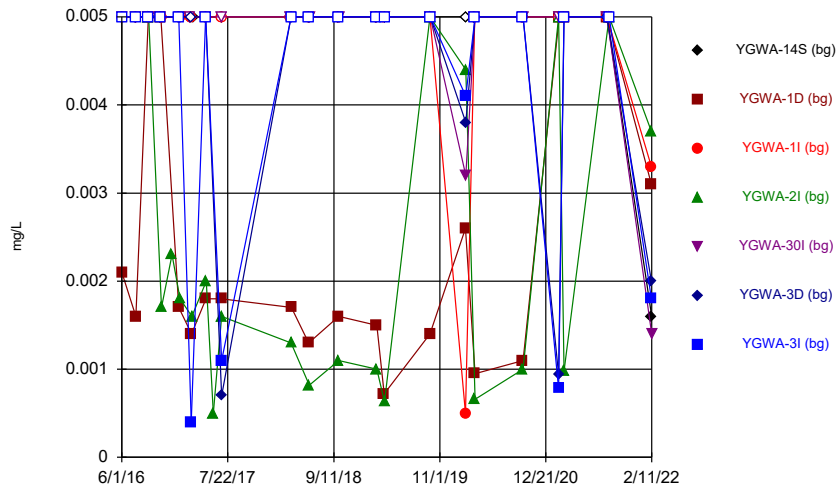
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Time Series



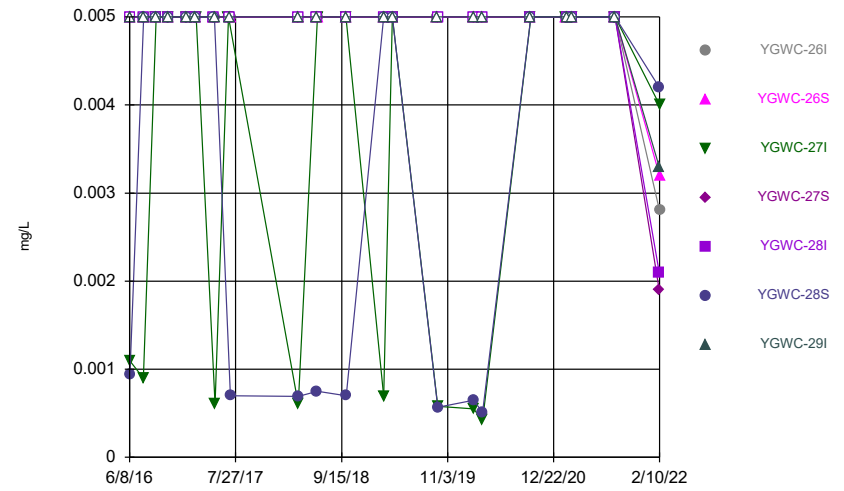
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Time Series



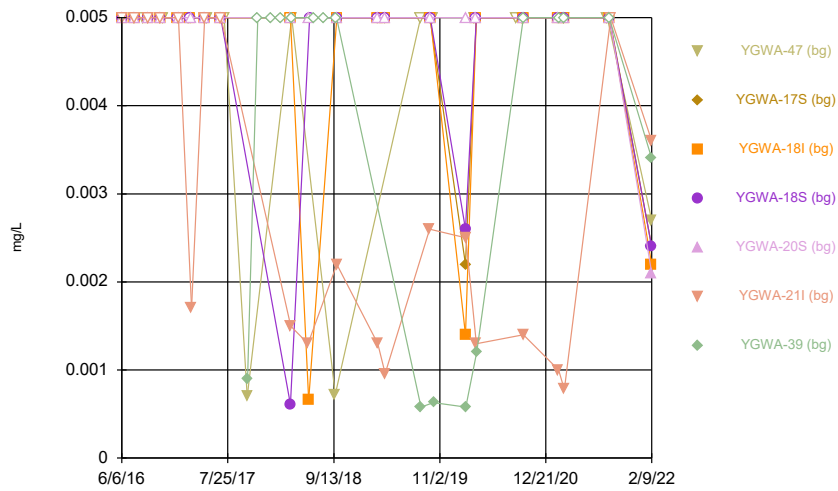
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Time Series



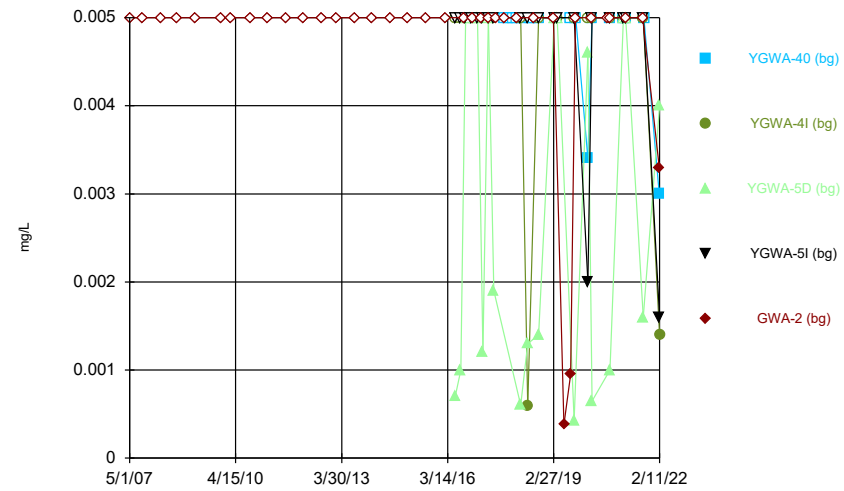
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Time Series



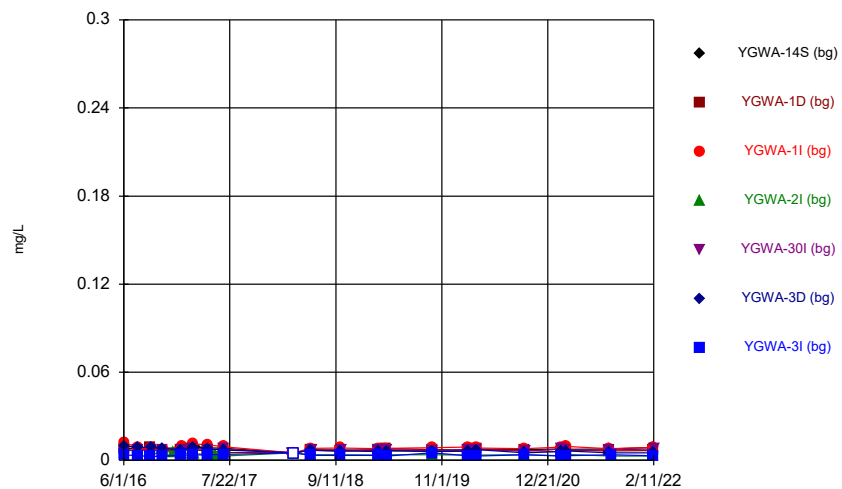
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Time Series



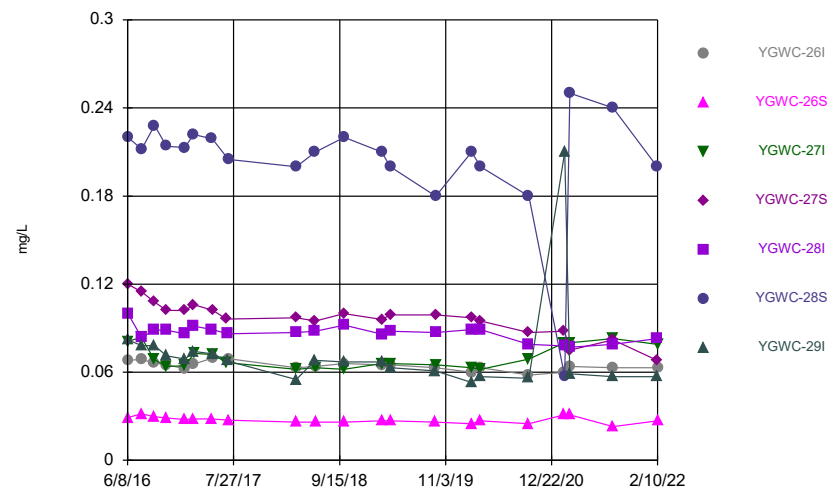
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Time Series



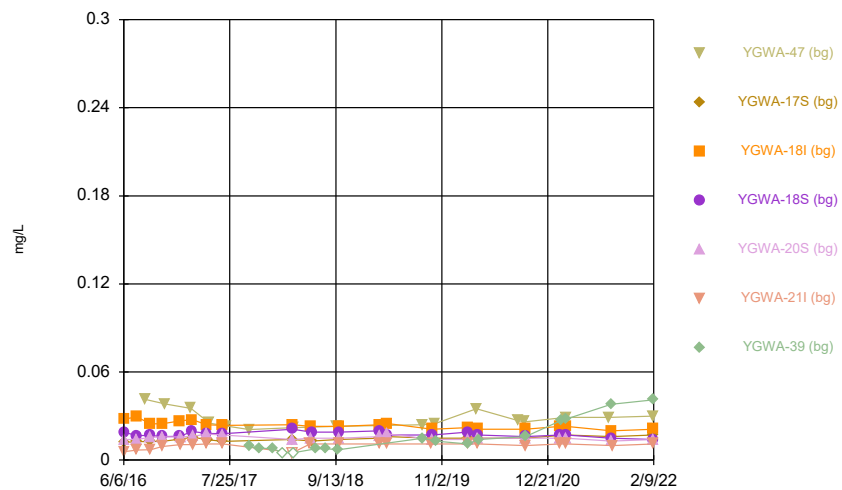
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Time Series



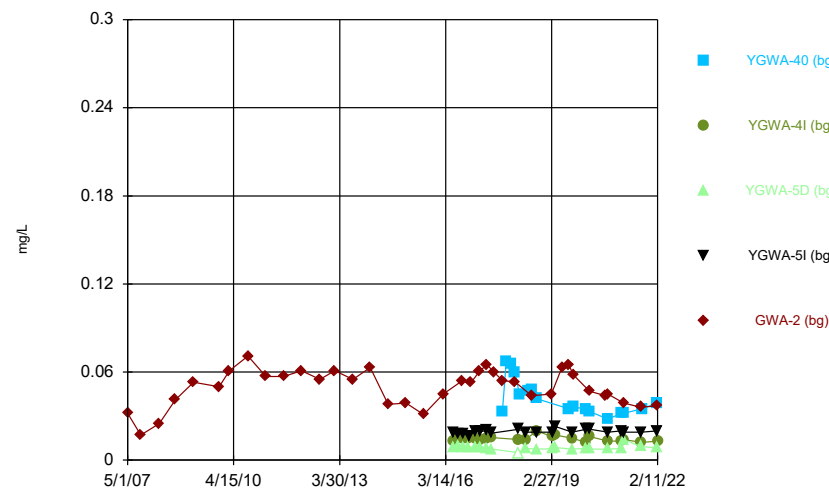
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Time Series



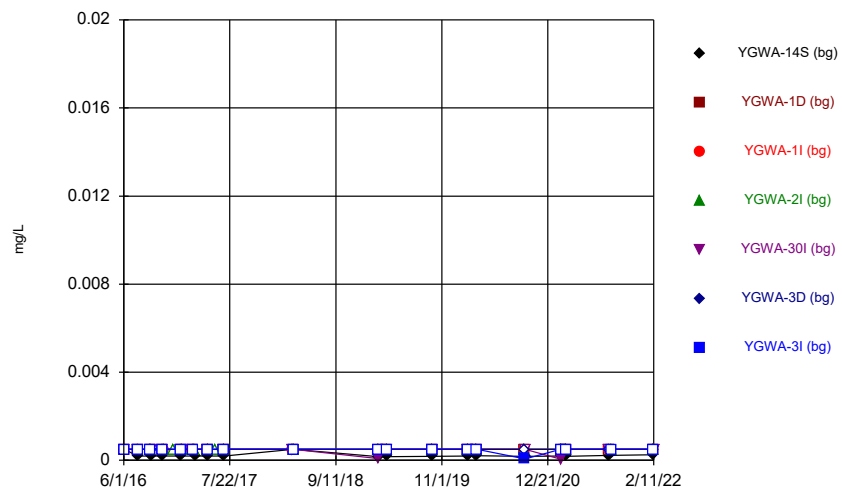
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Time Series



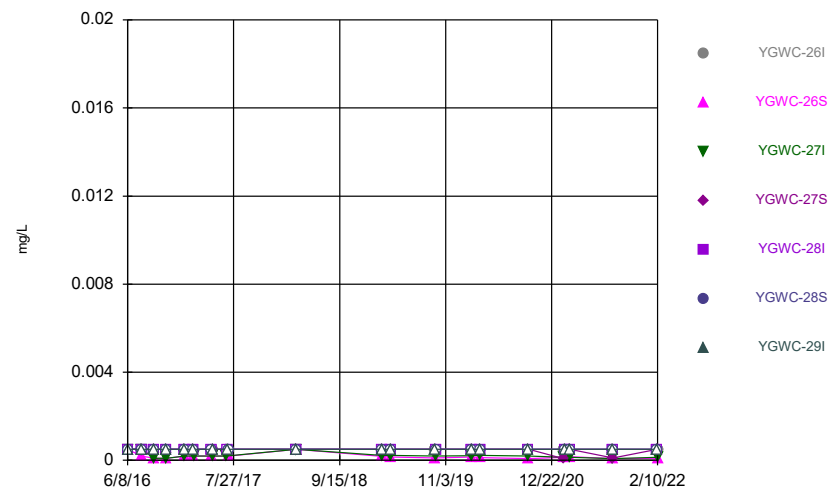
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Time Series



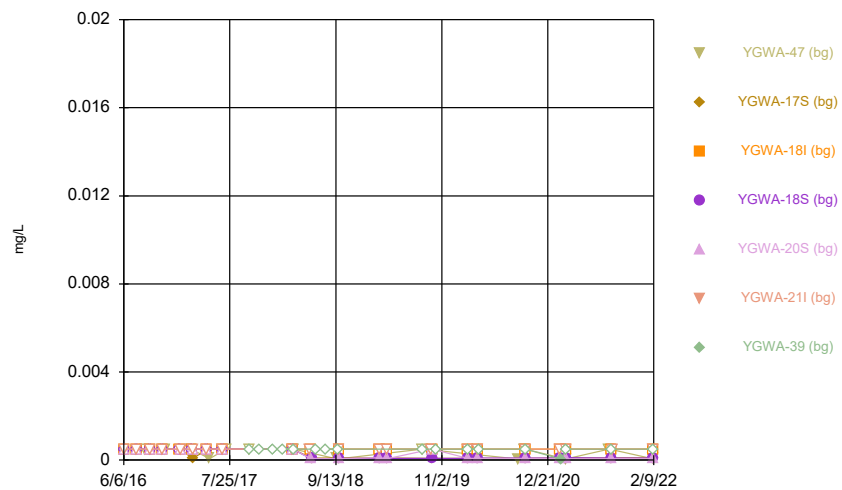
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Time Series



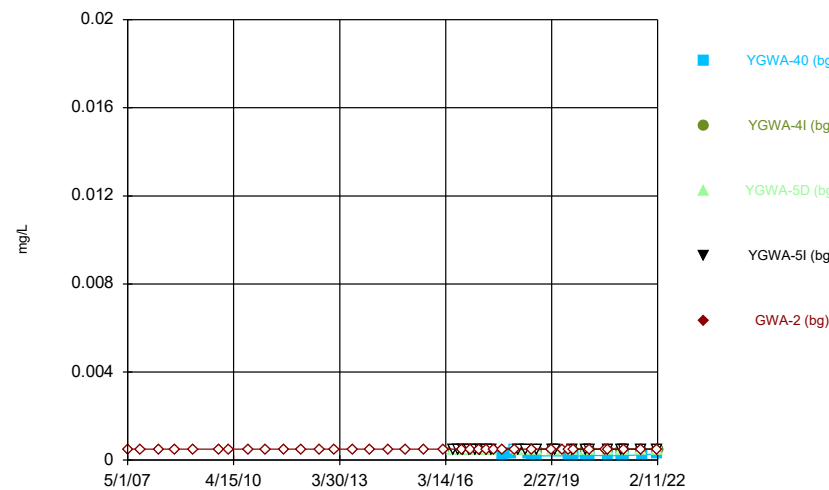
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Time Series



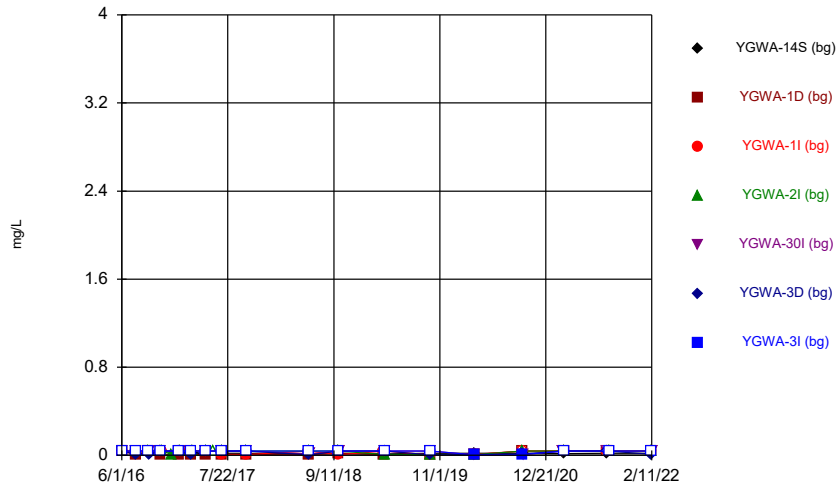
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Time Series



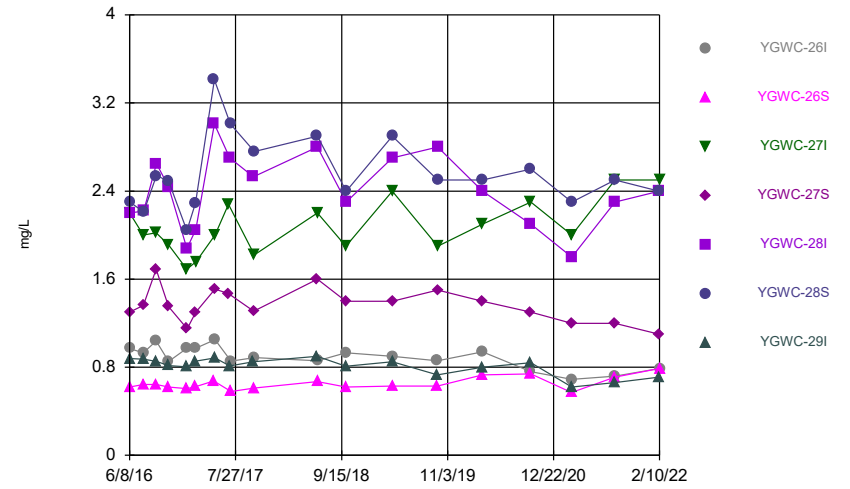
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Time Series



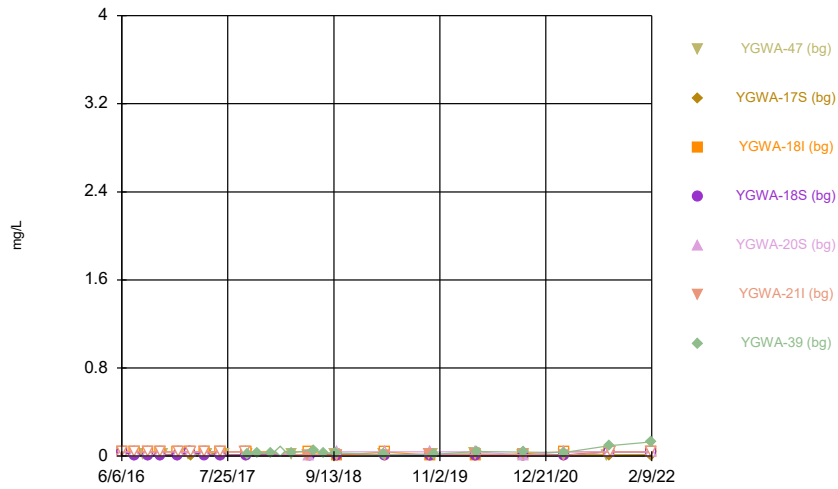
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Time Series



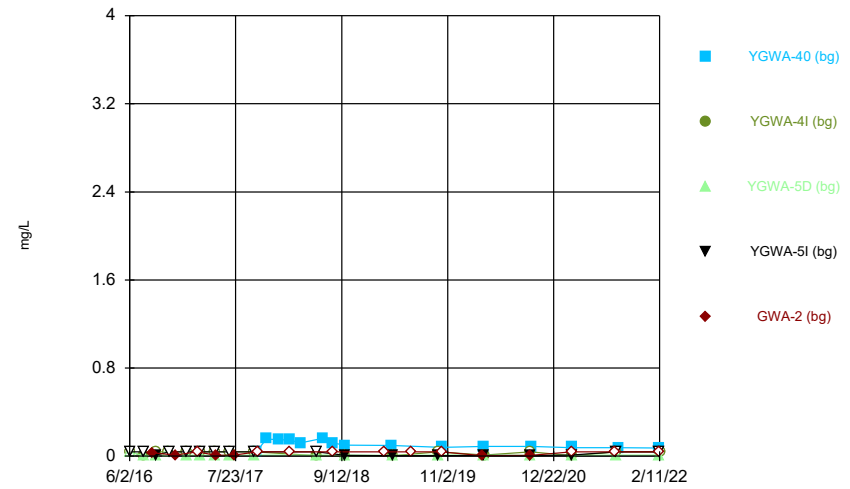
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Time Series



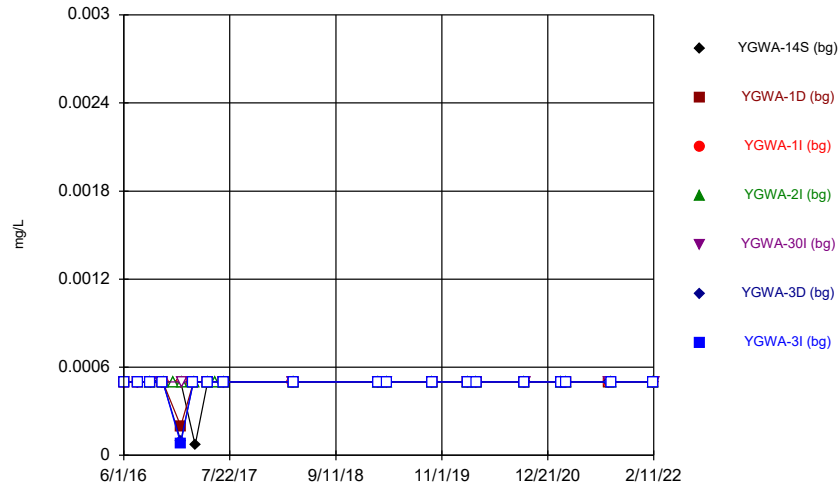
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Time Series



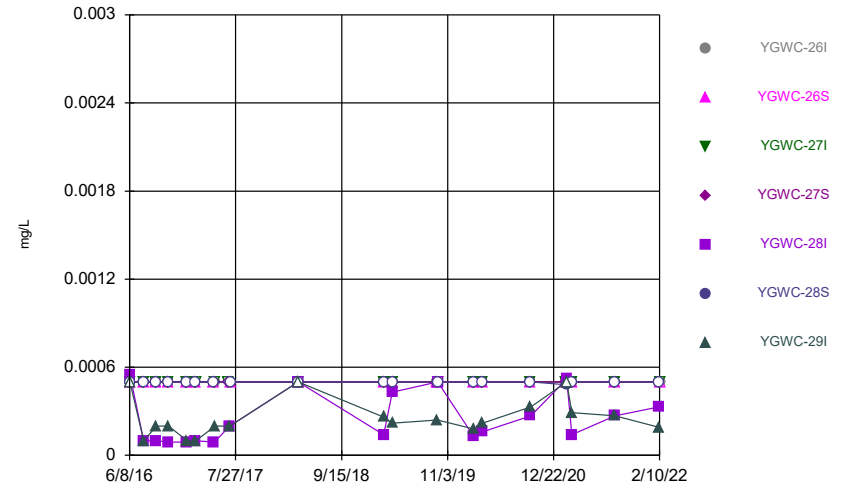
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Time Series



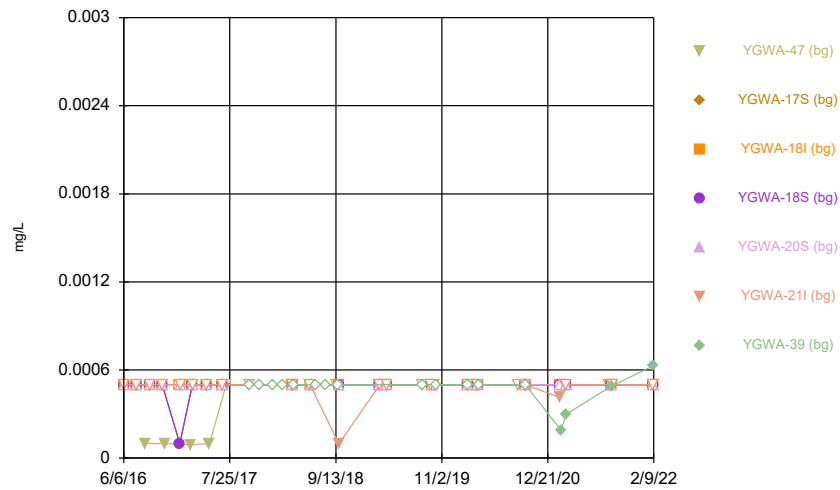
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Time Series



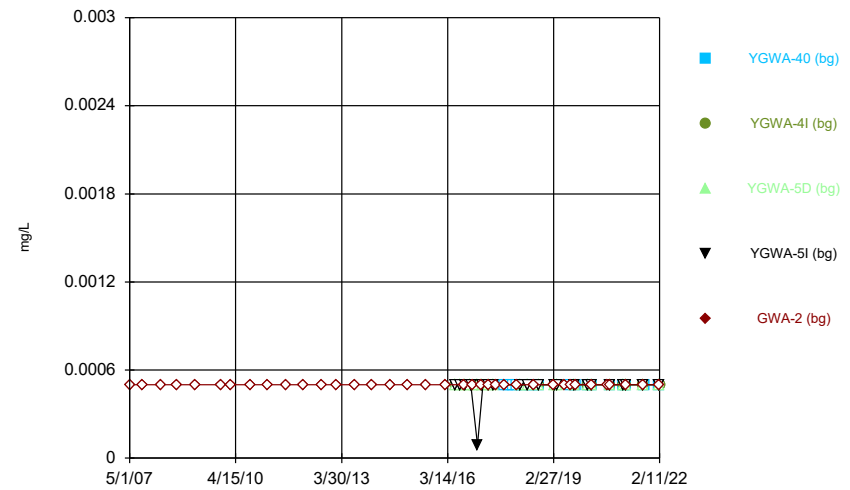
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Time Series



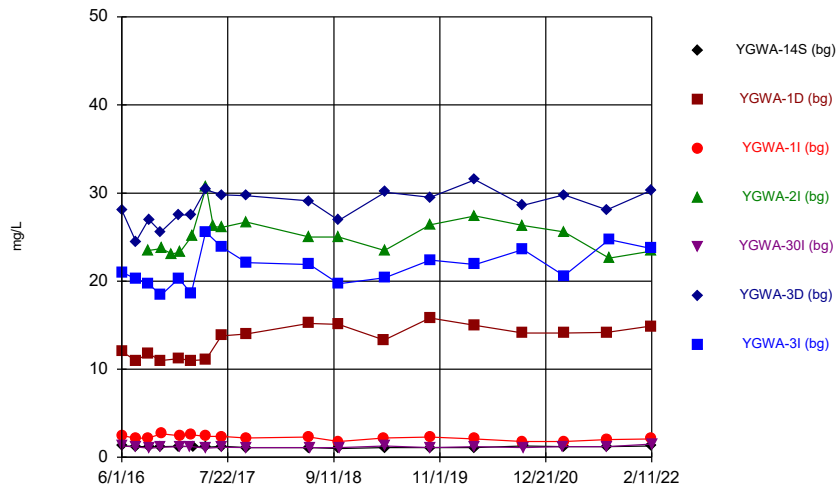
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Time Series



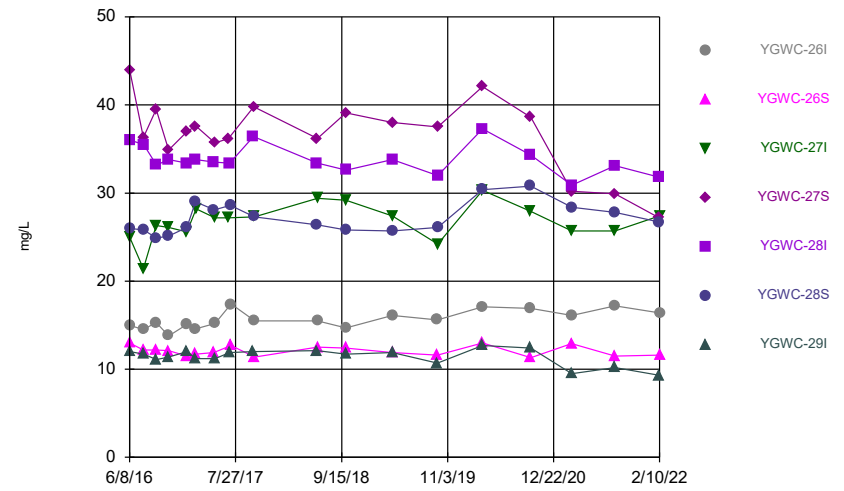
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Time Series



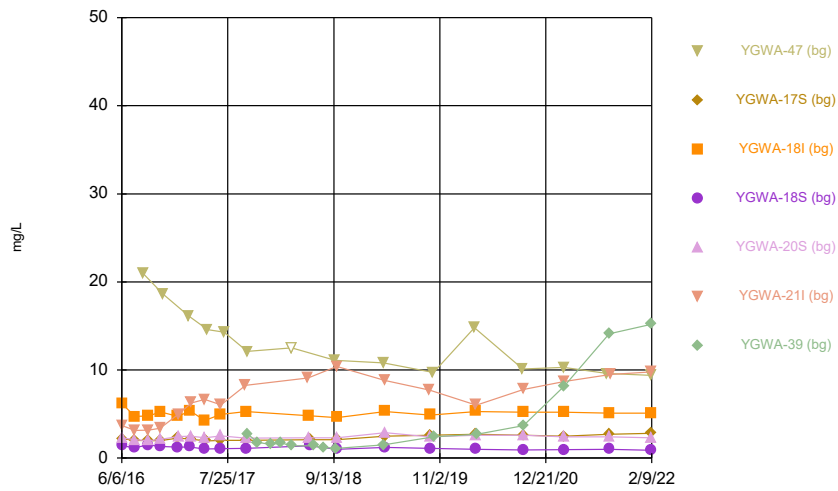
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Time Series



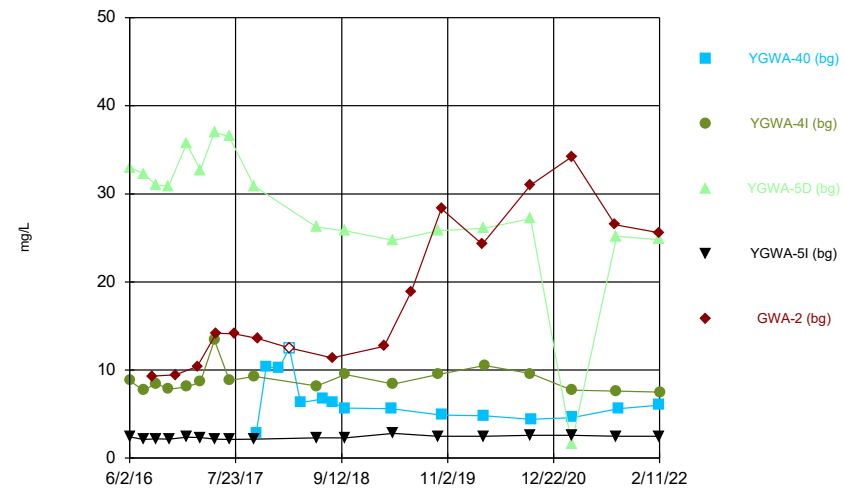
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Time Series



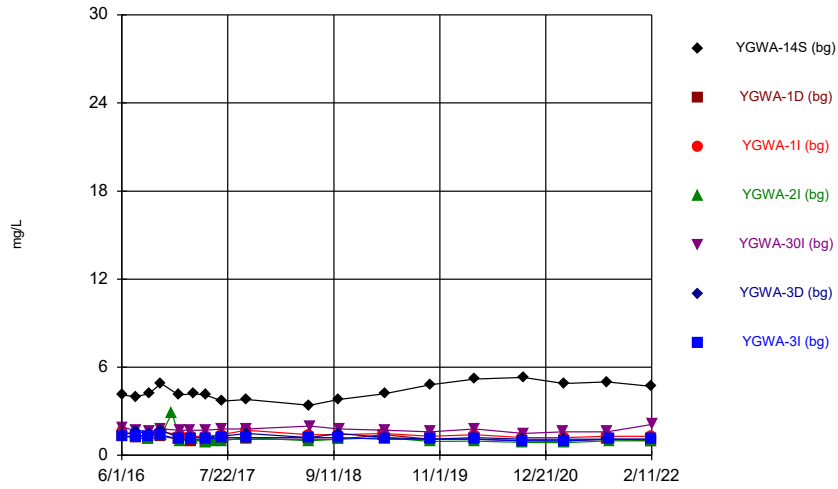
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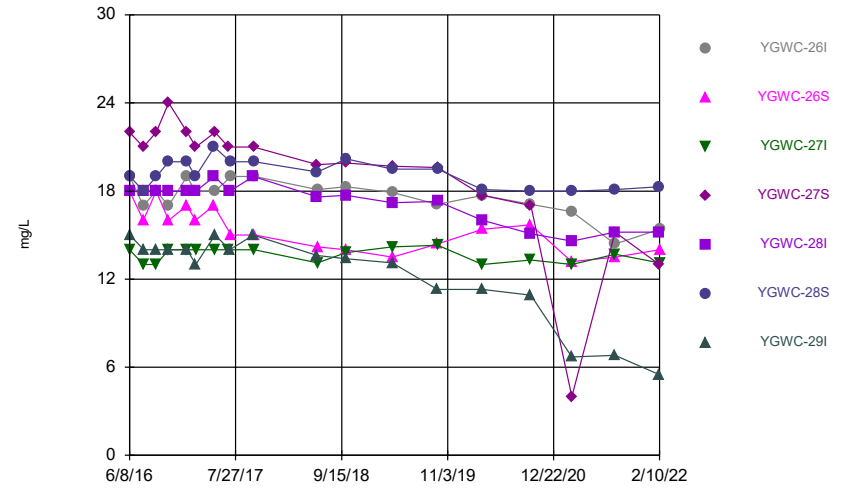
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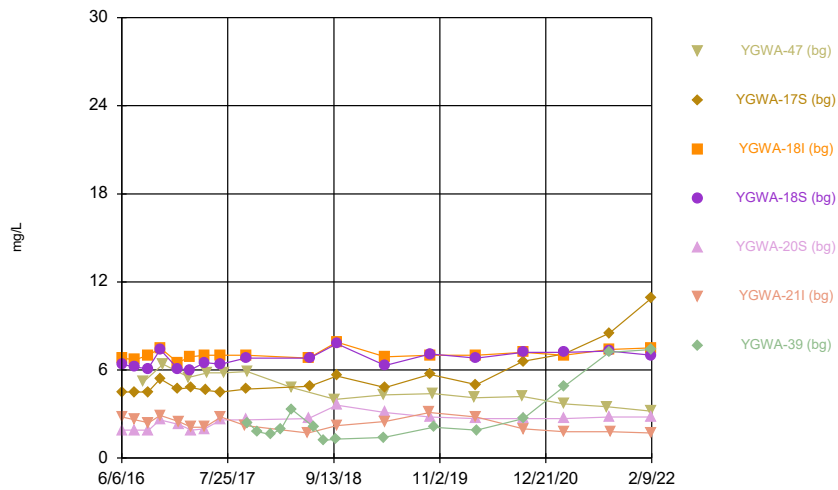
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Time Series



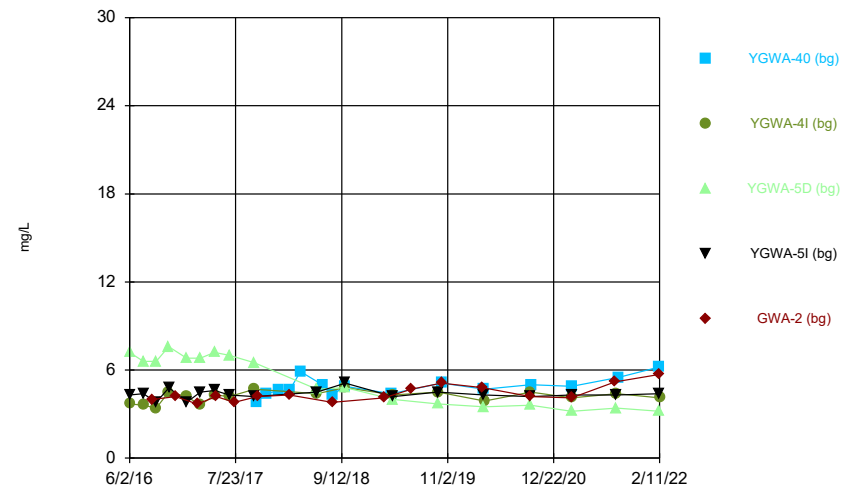
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Time Series



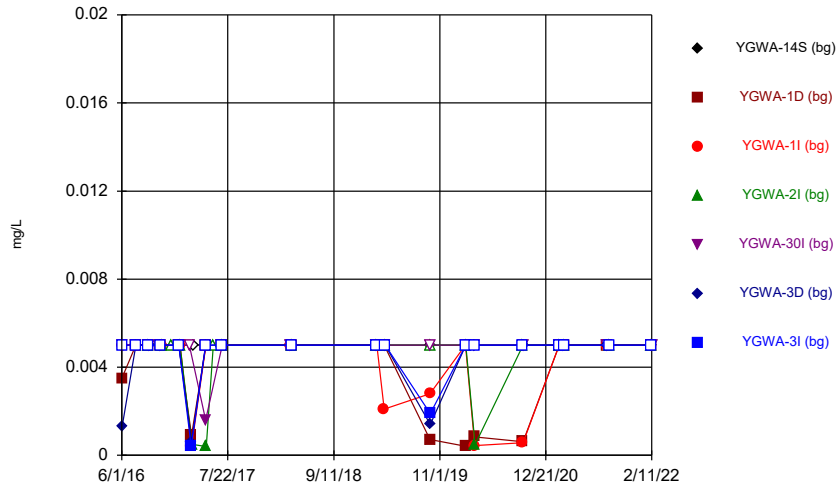
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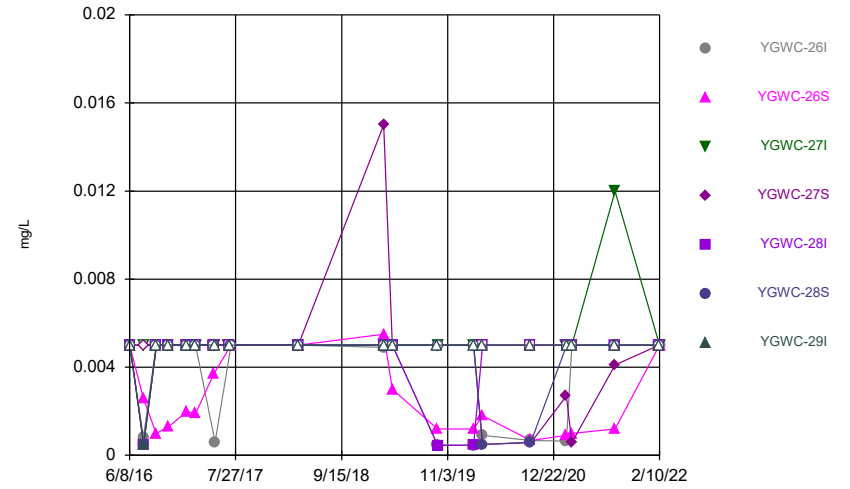
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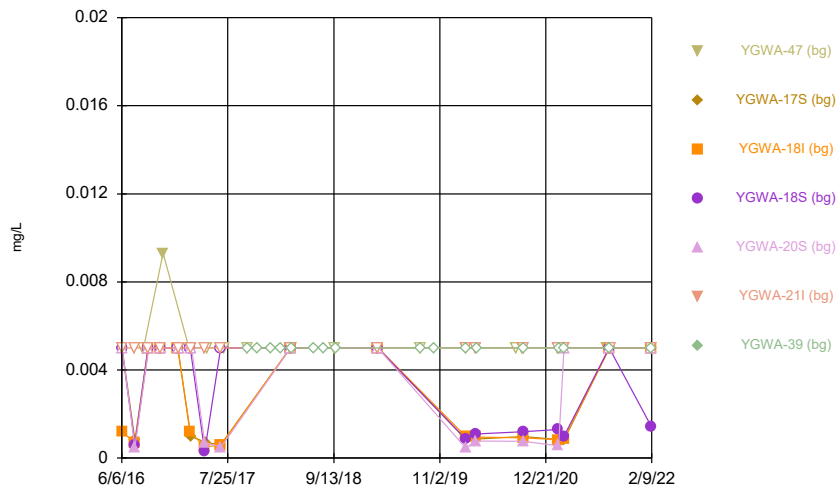
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Time Series



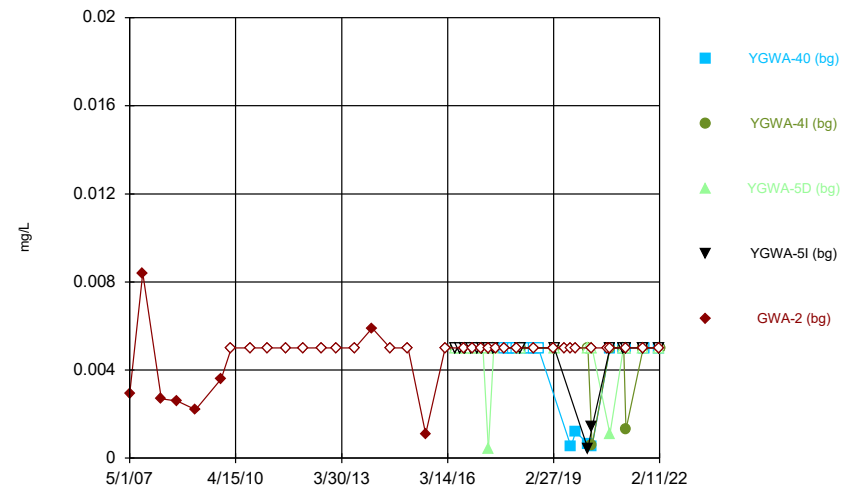
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Time Series



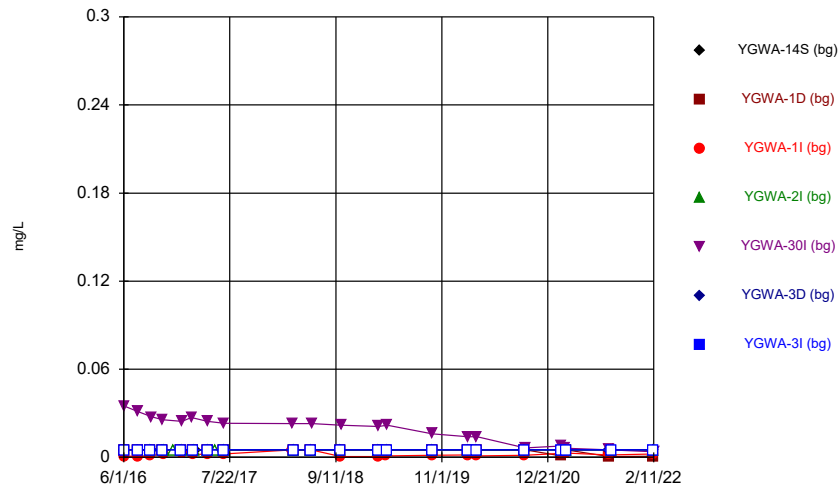
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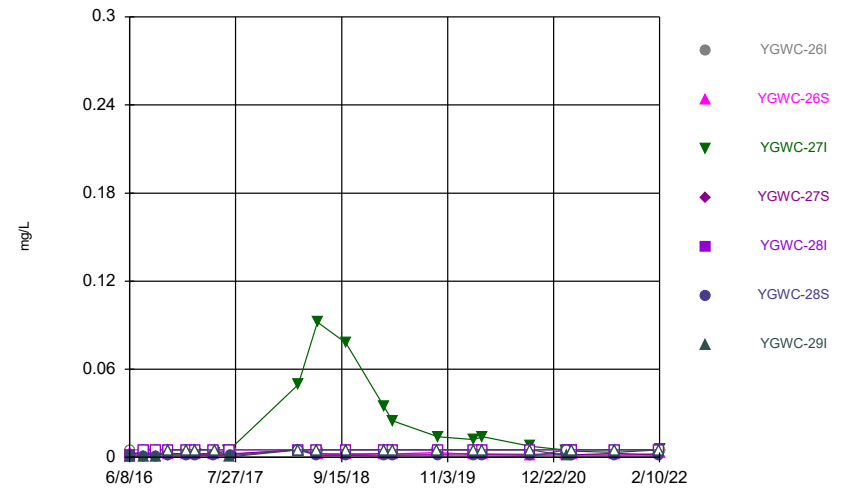
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Time Series



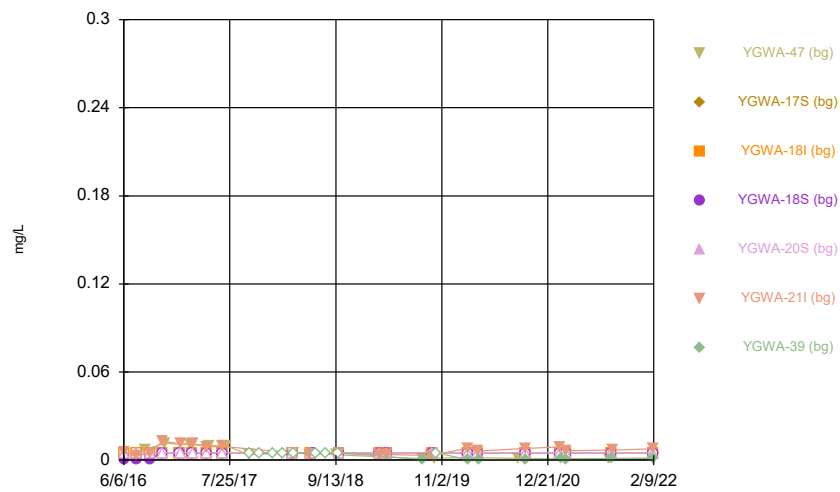
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Time Series



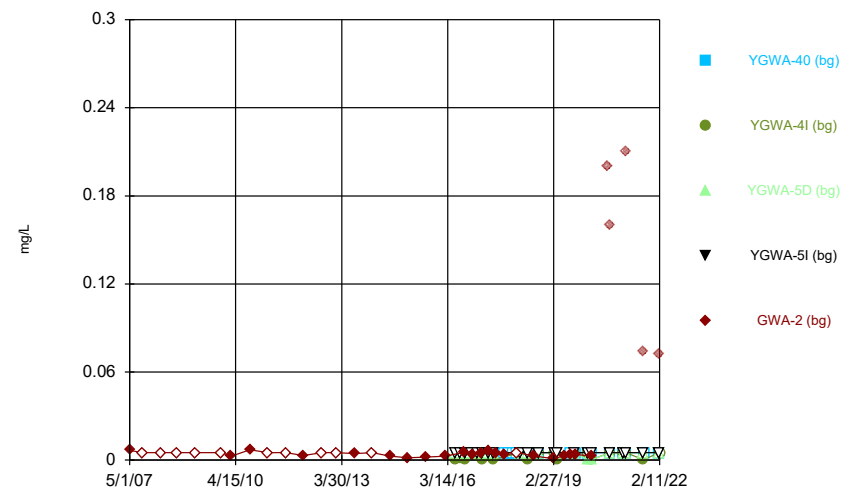
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Time Series



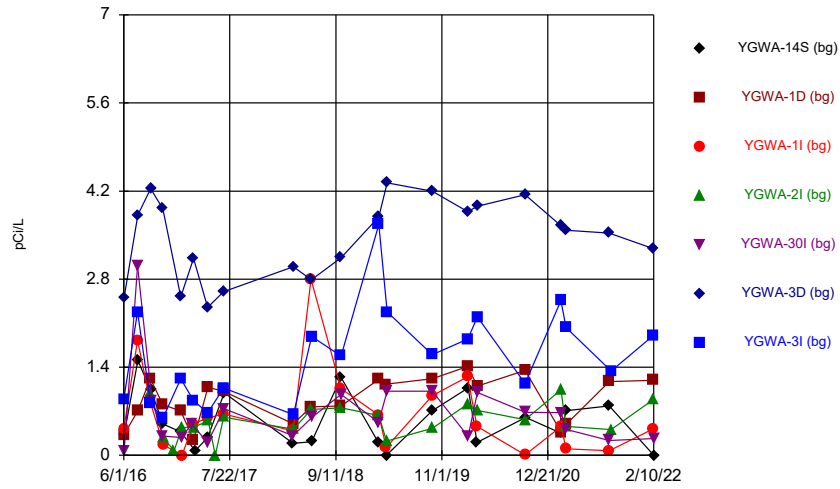
Constituent: Cobalt Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



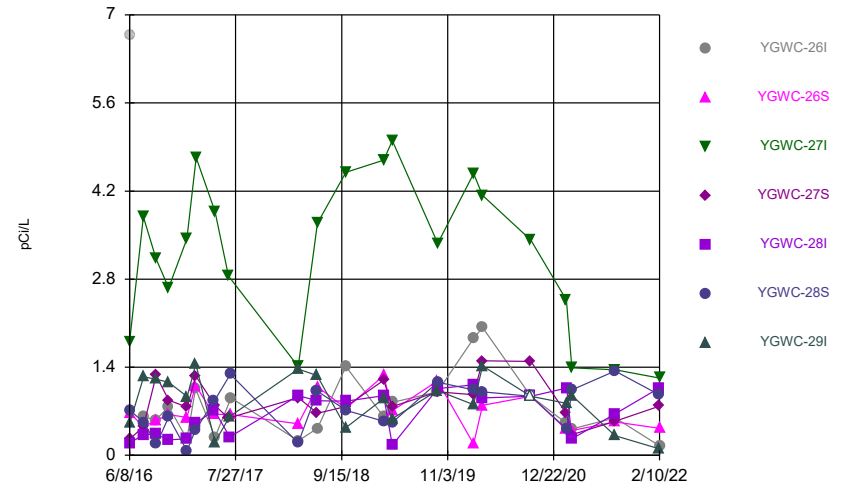
Constituent: Cobalt Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



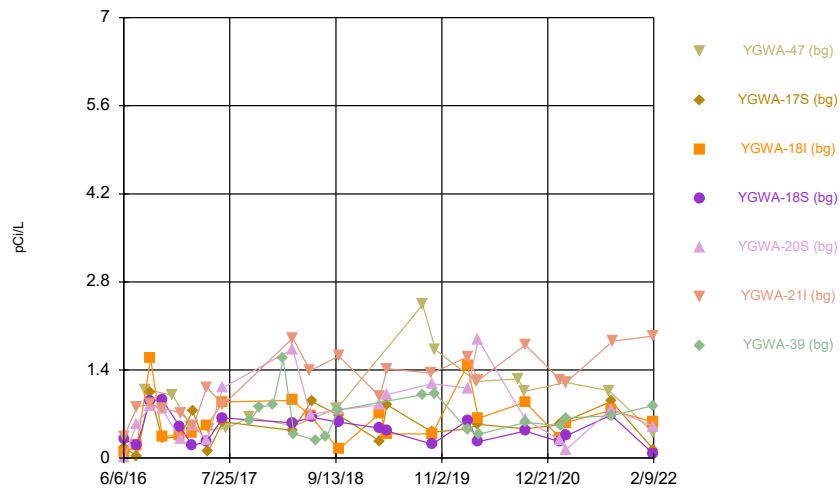
Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



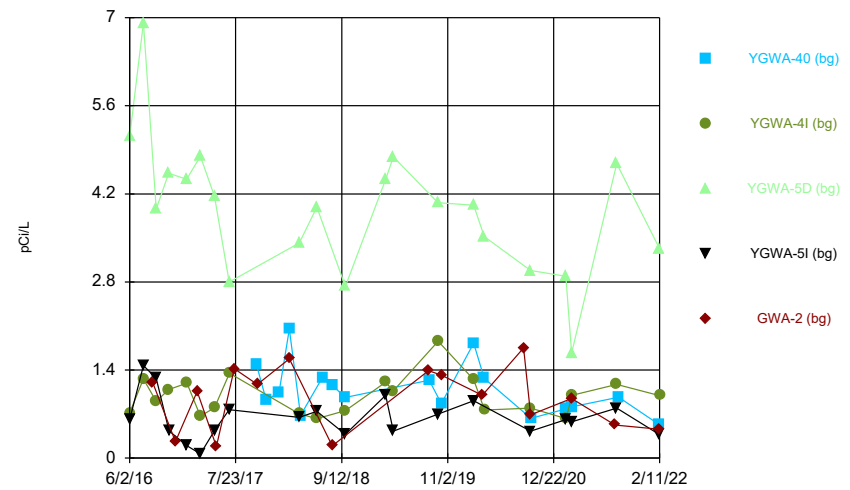
Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



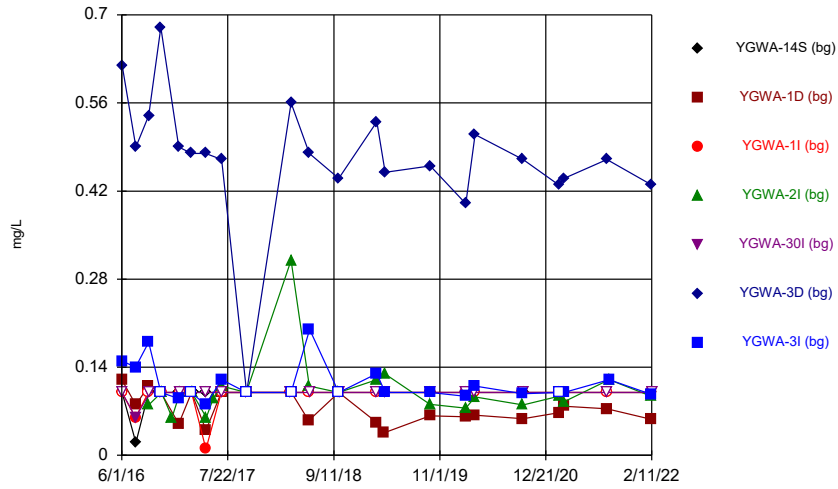
Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



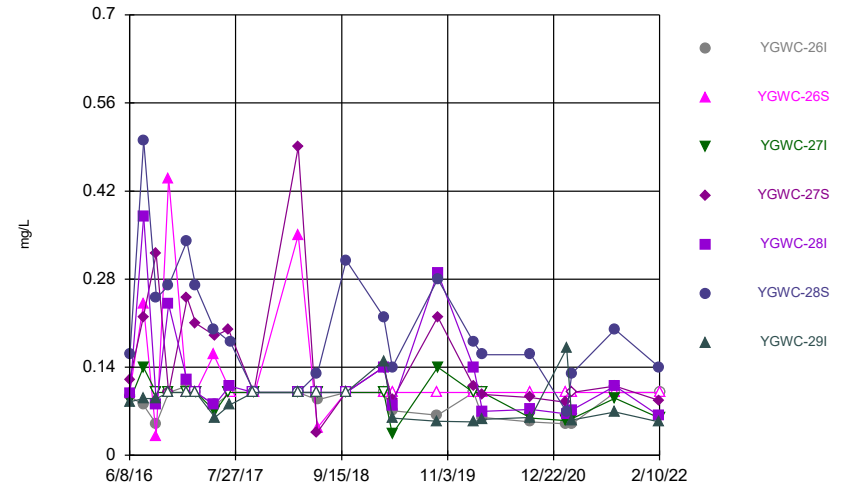
Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



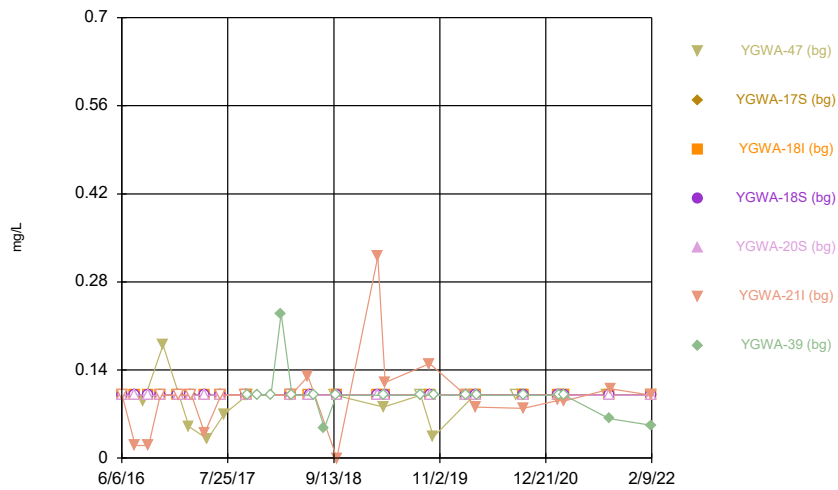
Constituent: Fluoride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



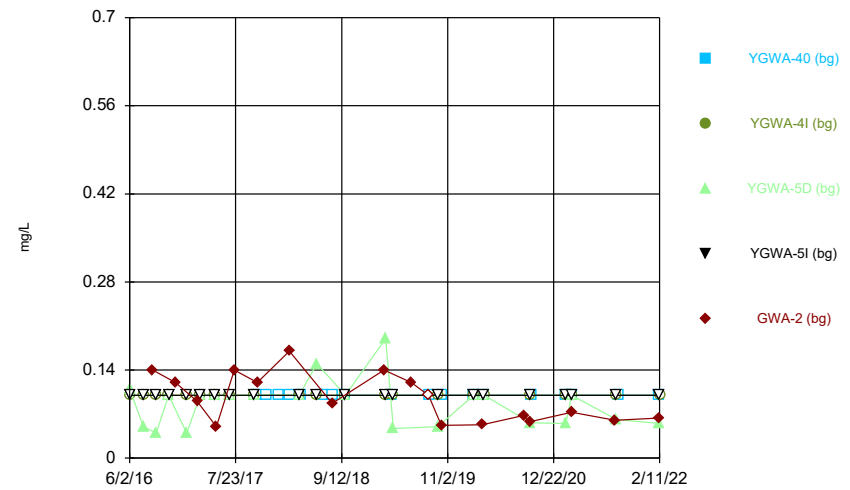
Constituent: Fluoride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



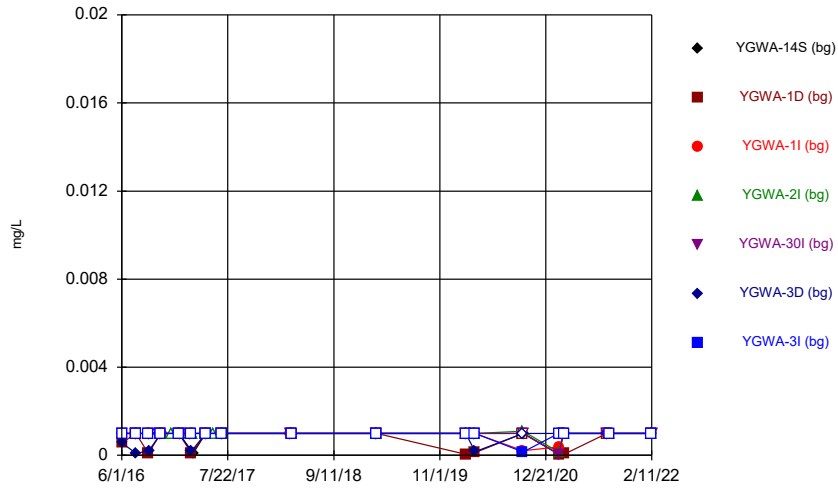
Constituent: Fluoride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



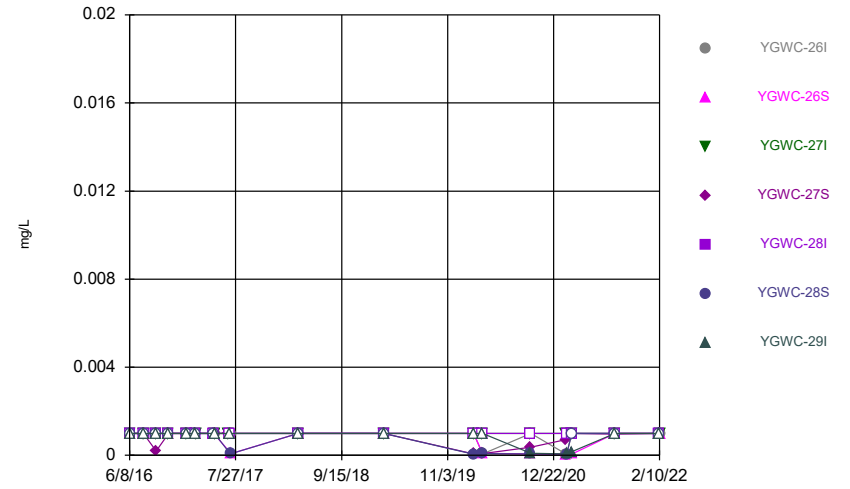
Constituent: Fluoride Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



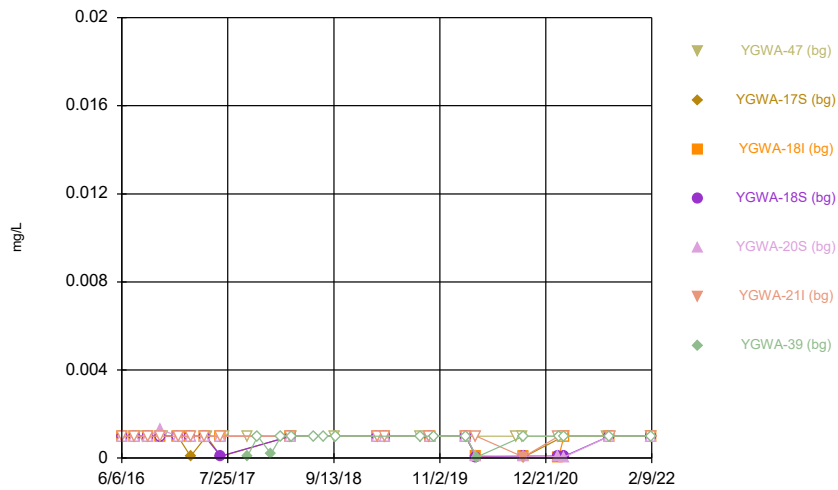
Constituent: Lead Analysis Run 4/27/2022 1:22 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



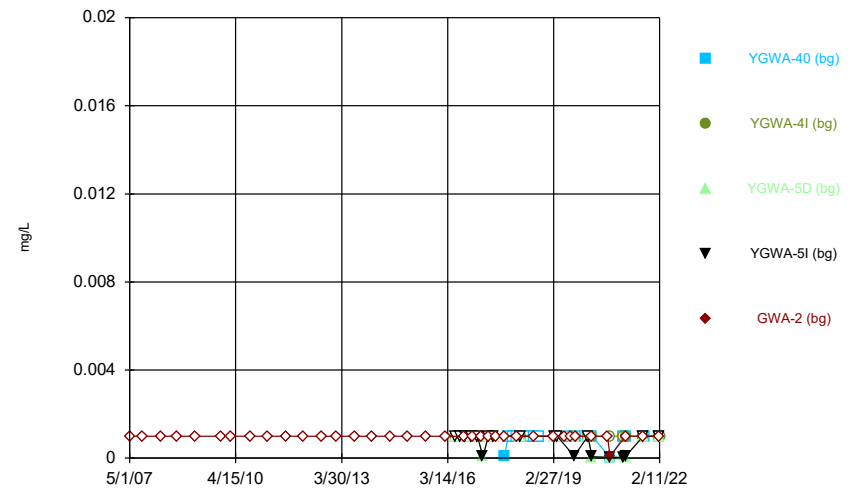
Constituent: Lead Analysis Run 4/27/2022 1:22 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



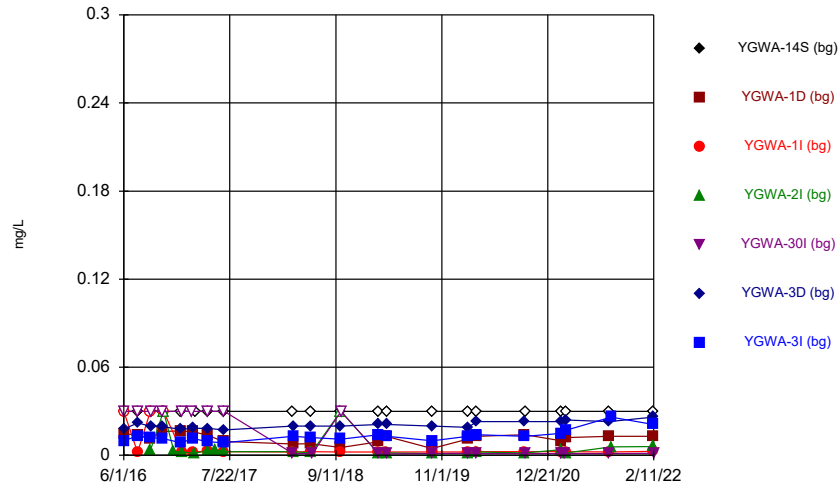
Constituent: Lead Analysis Run 4/27/2022 1:22 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



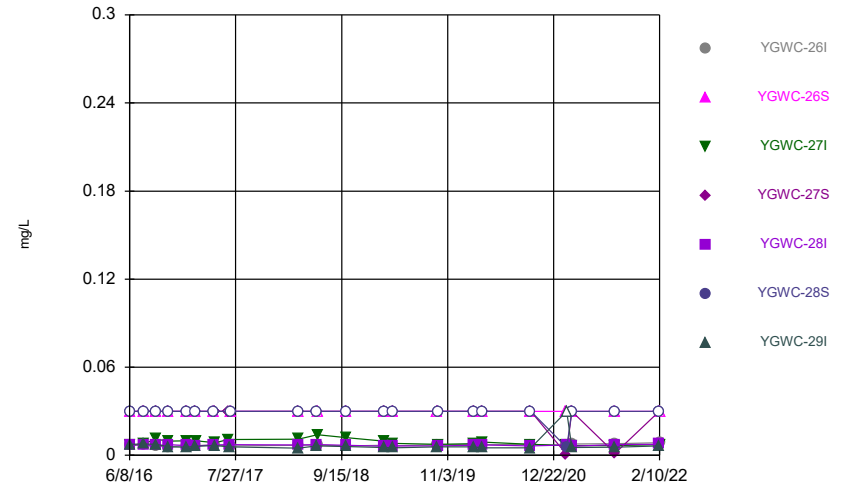
Constituent: Lead Analysis Run 4/27/2022 1:22 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



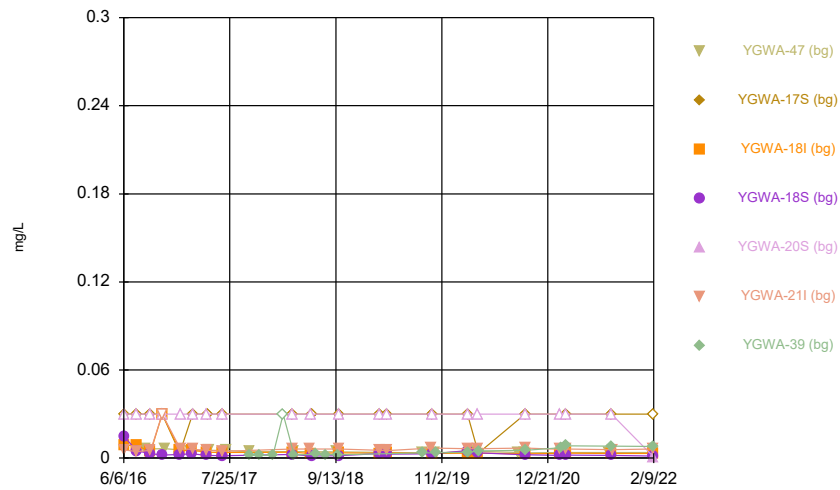
Constituent: Lithium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



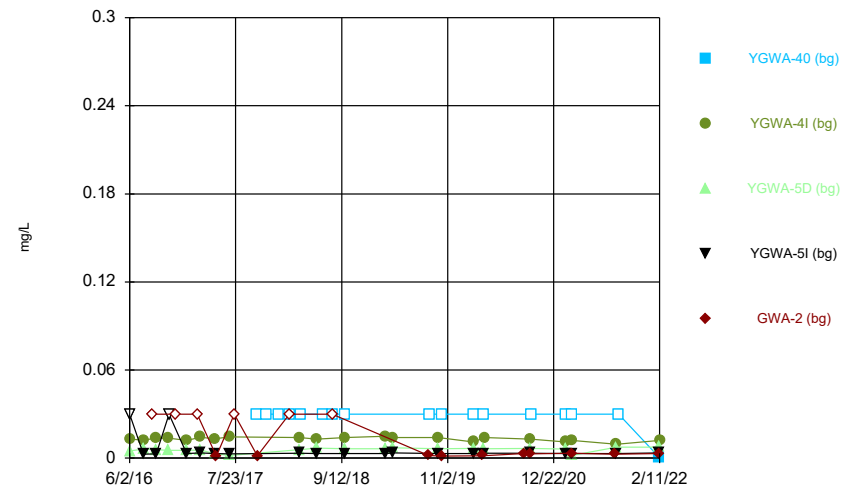
Constituent: Lithium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



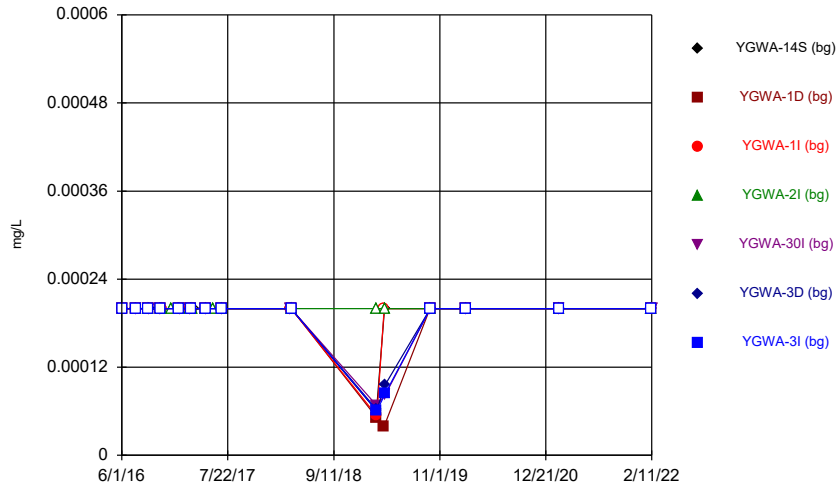
Constituent: Lithium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



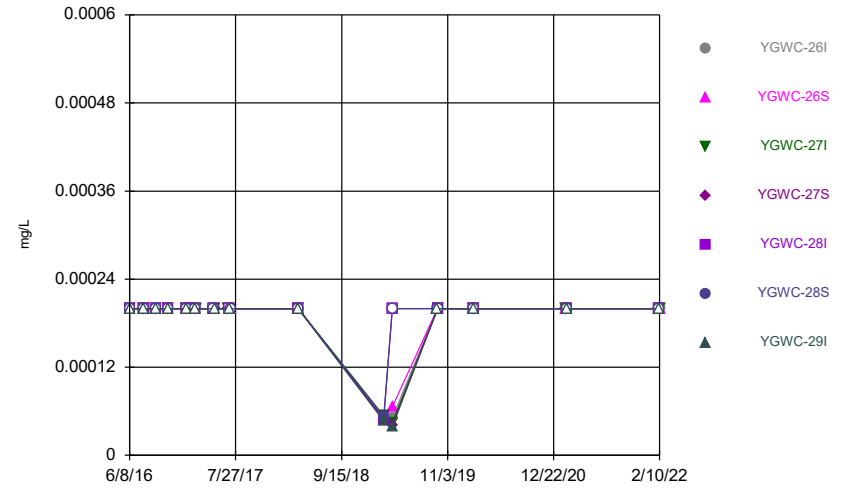
Constituent: Lithium Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



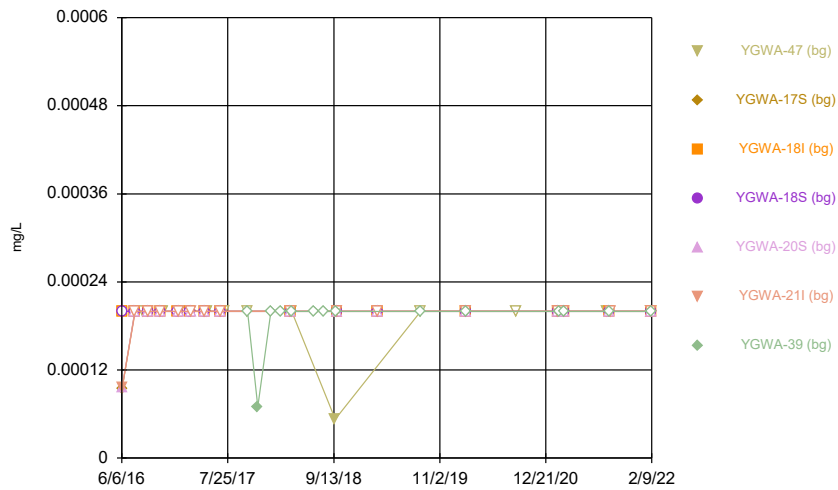
Constituent: Mercury Analysis Run 4/27/2022 1:22 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



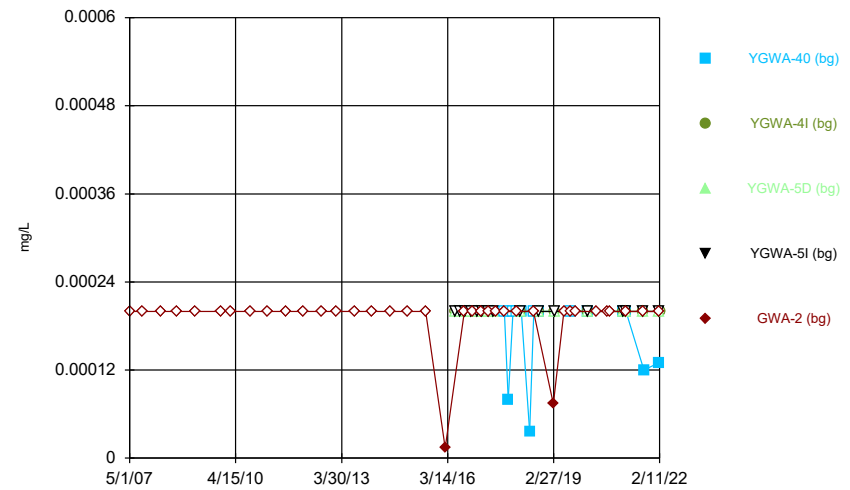
Constituent: Mercury Analysis Run 4/27/2022 1:22 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



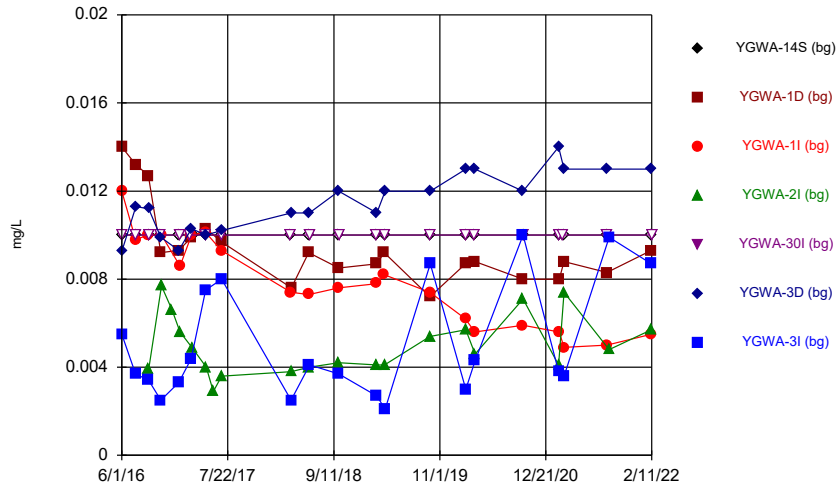
Constituent: Mercury Analysis Run 4/27/2022 1:22 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



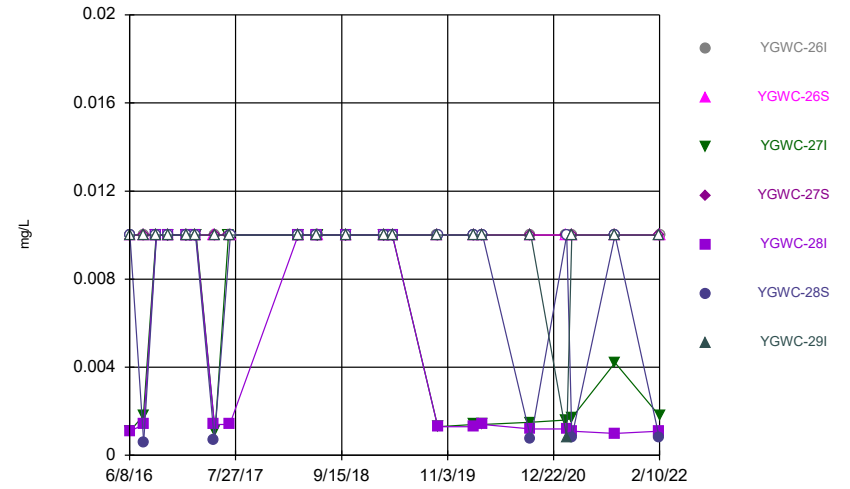
Constituent: Mercury Analysis Run 4/27/2022 1:22 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



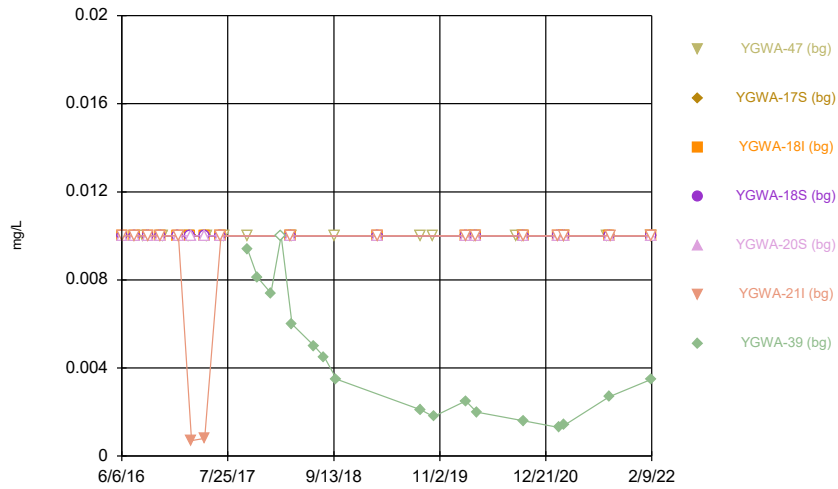
Constituent: Molybdenum Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



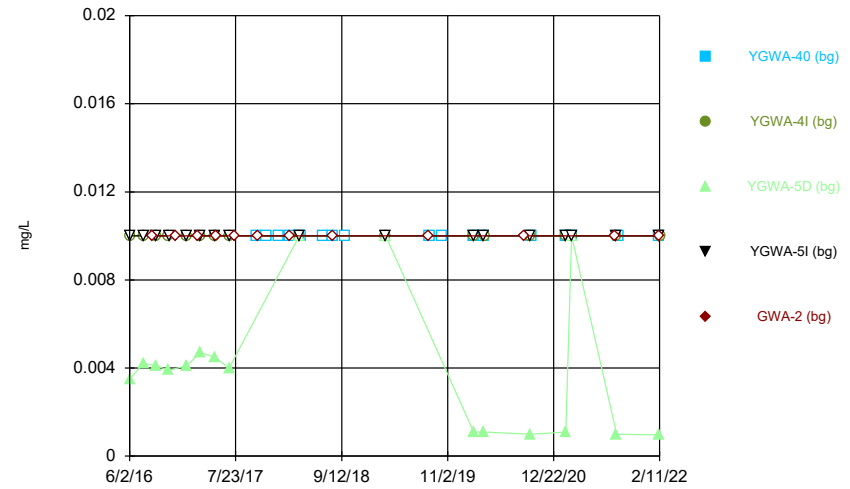
Constituent: Molybdenum Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



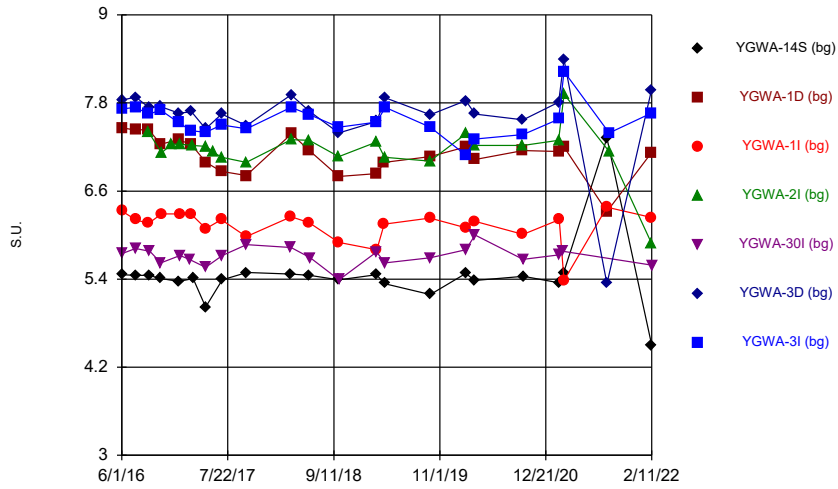
Constituent: Molybdenum Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



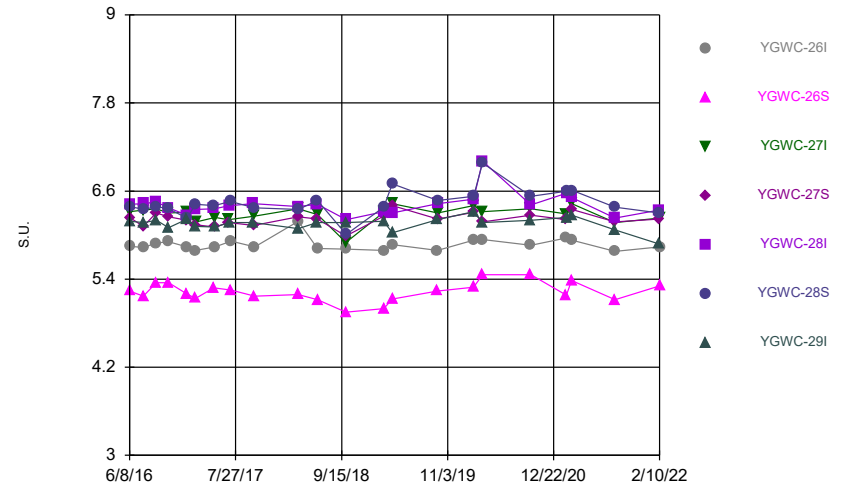
Constituent: Molybdenum Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



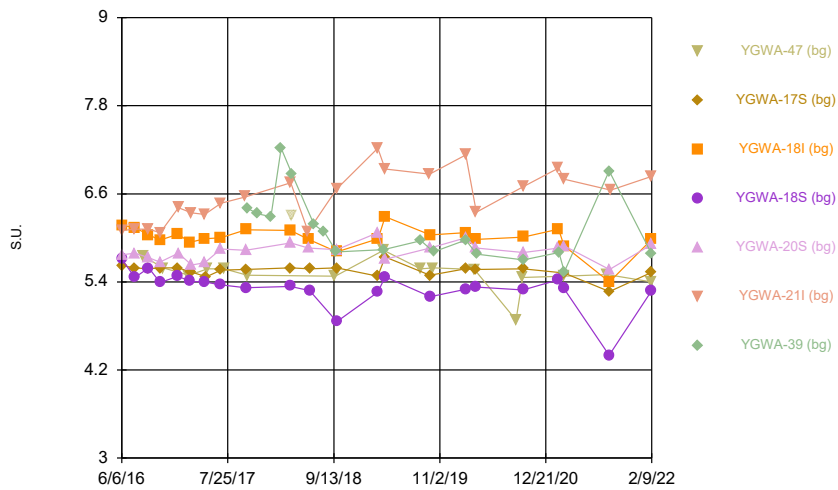
Constituent: pH Analysis Run 4/27/2022 1:22 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



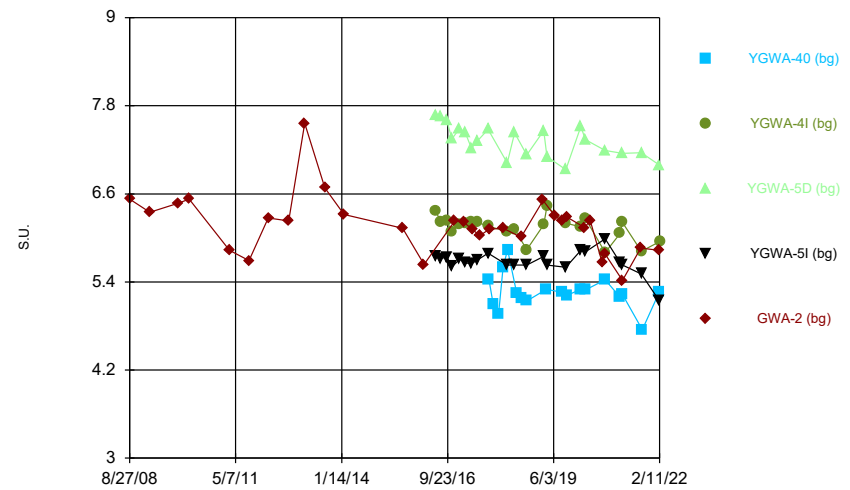
Constituent: pH Analysis Run 4/27/2022 1:22 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



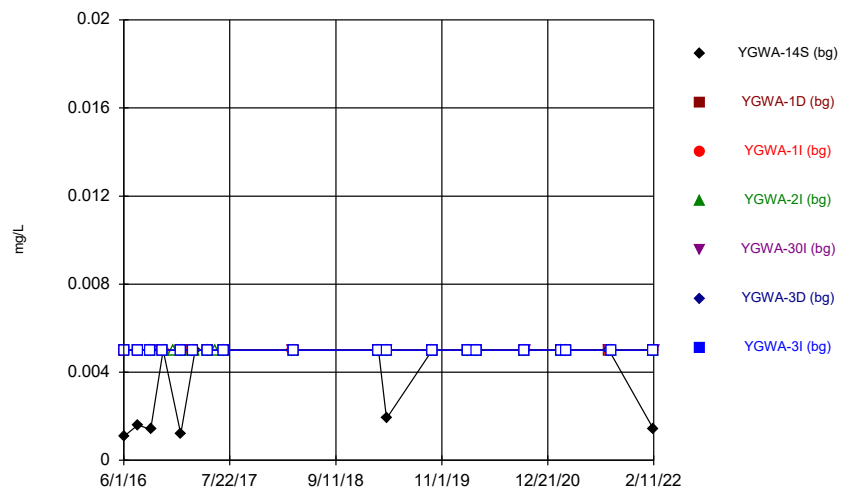
Constituent: pH Analysis Run 4/27/2022 1:22 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



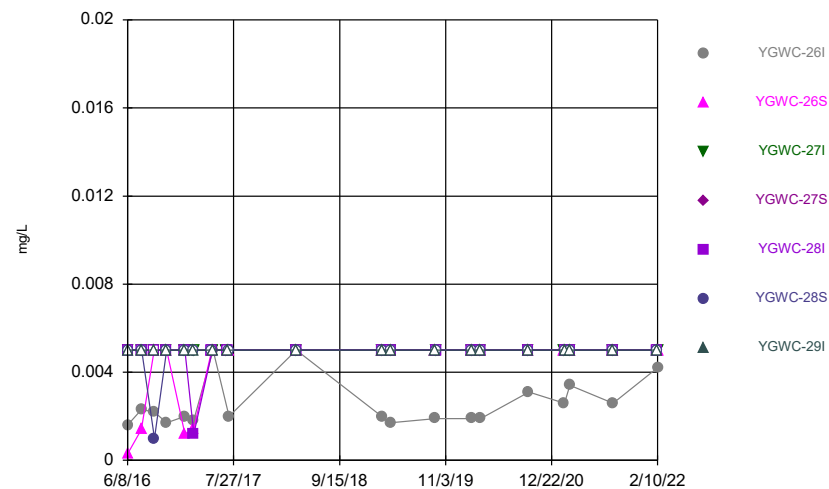
Constituent: pH Analysis Run 4/27/2022 1:22 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



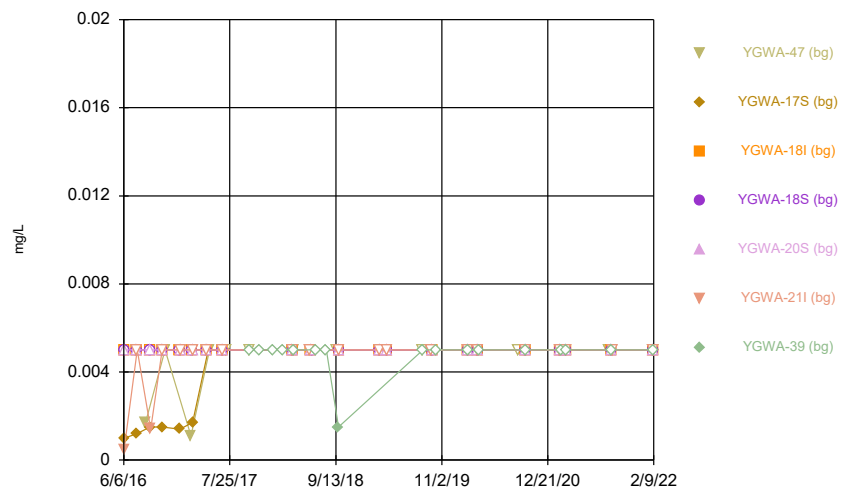
Constituent: Seleniun Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



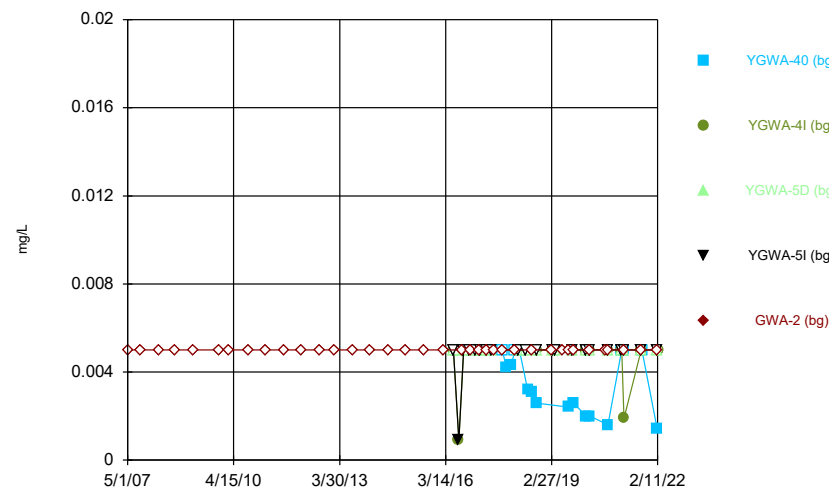
Constituent: Seleniun Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



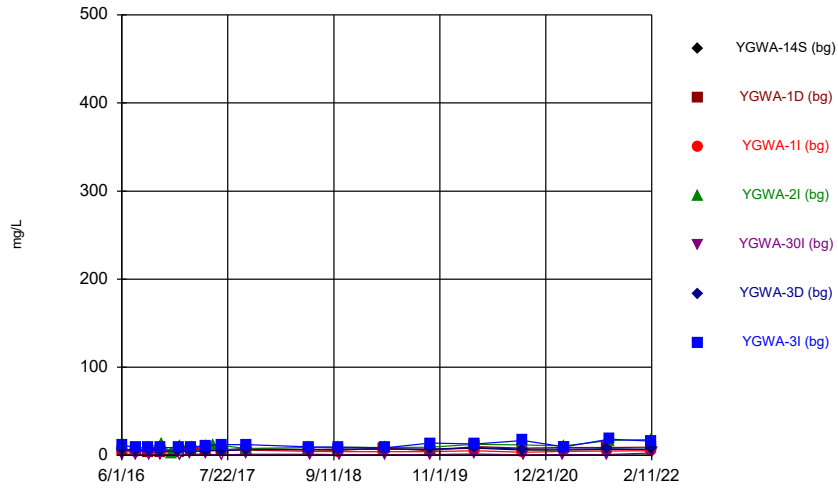
Constituent: Seleniun Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



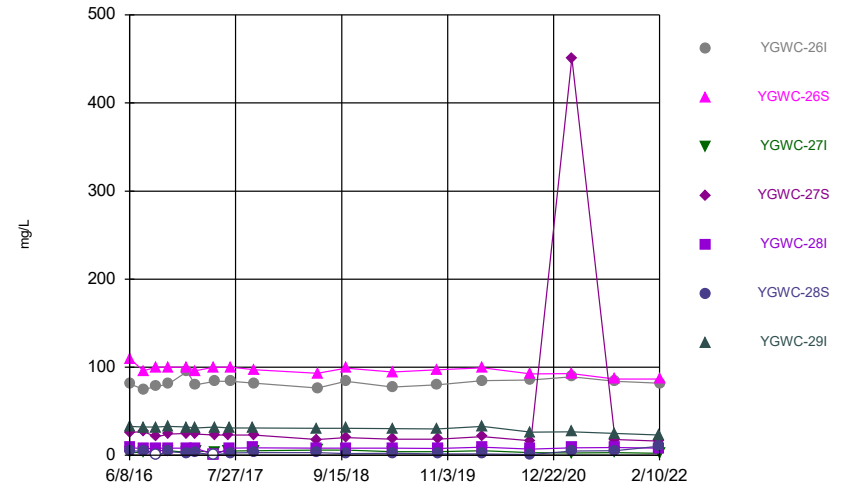
Constituent: Seleniun Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



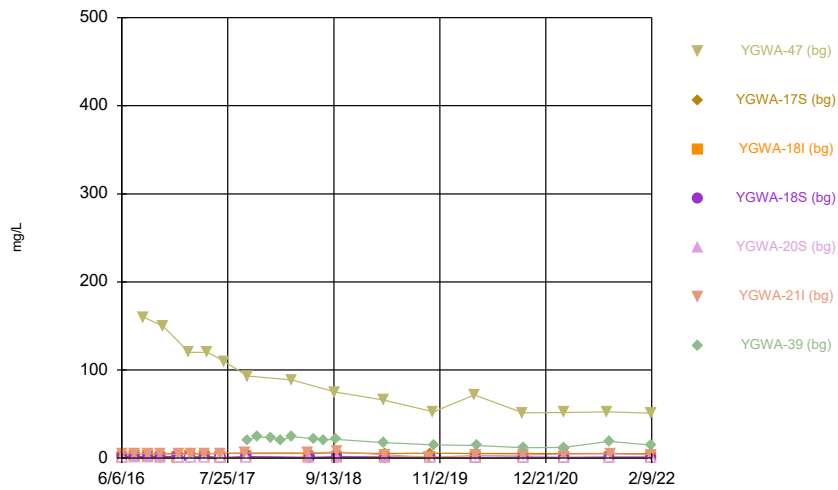
Constituent: Sulfate Analysis Run 4/27/2022 1:22 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



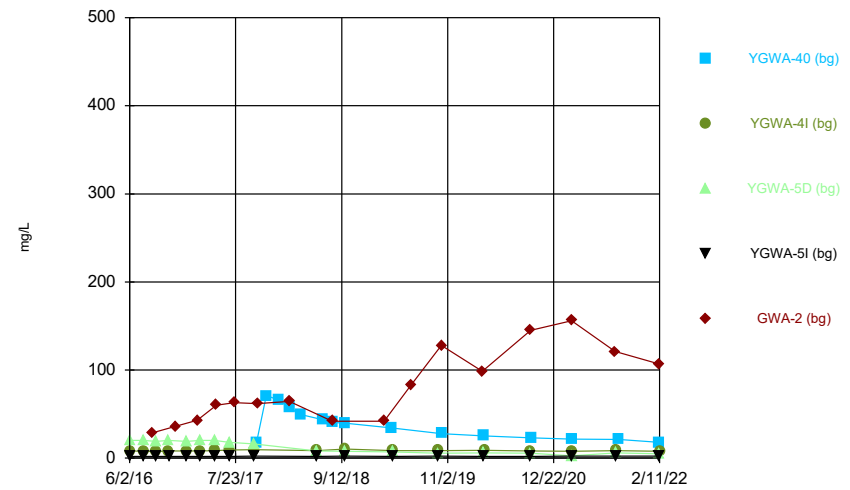
Constituent: Sulfate Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



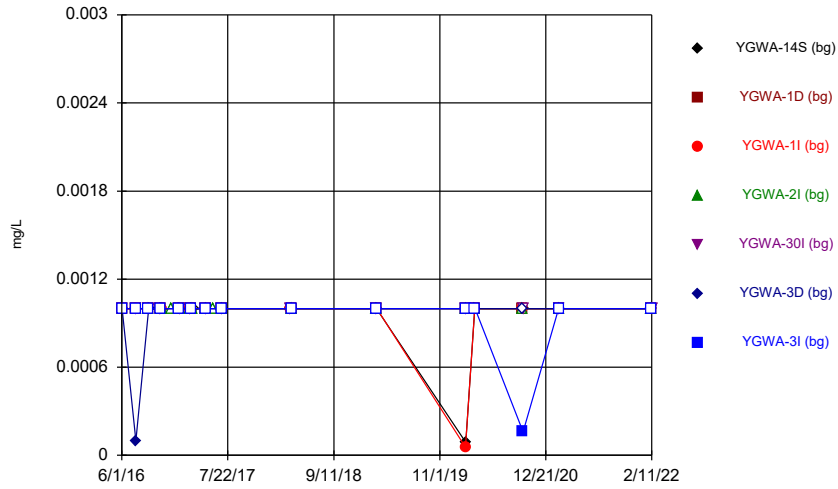
Constituent: Sulfate Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



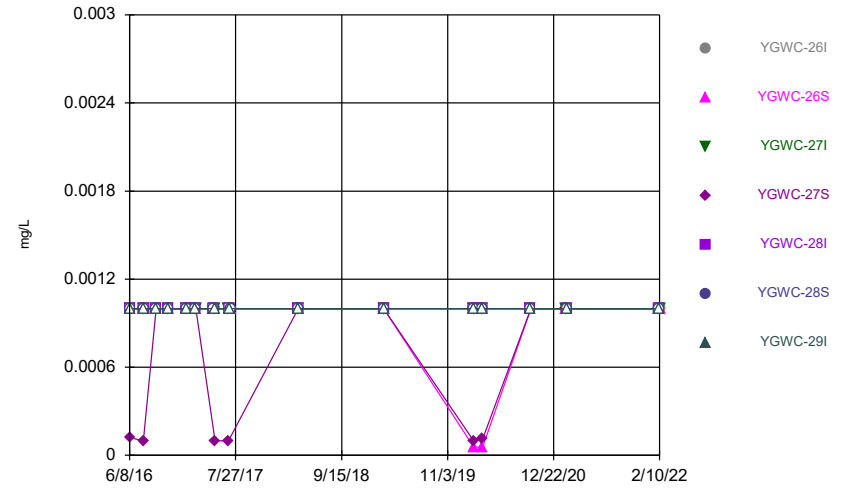
Constituent: Sulfate Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



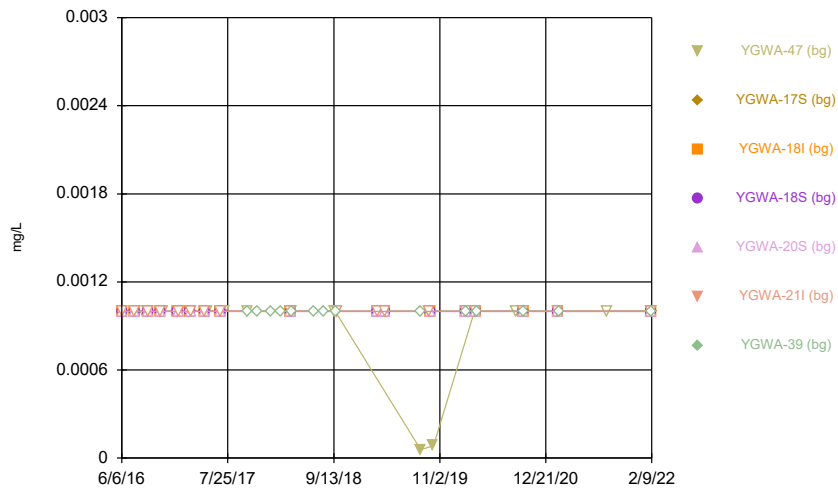
Constituent: Thallium Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



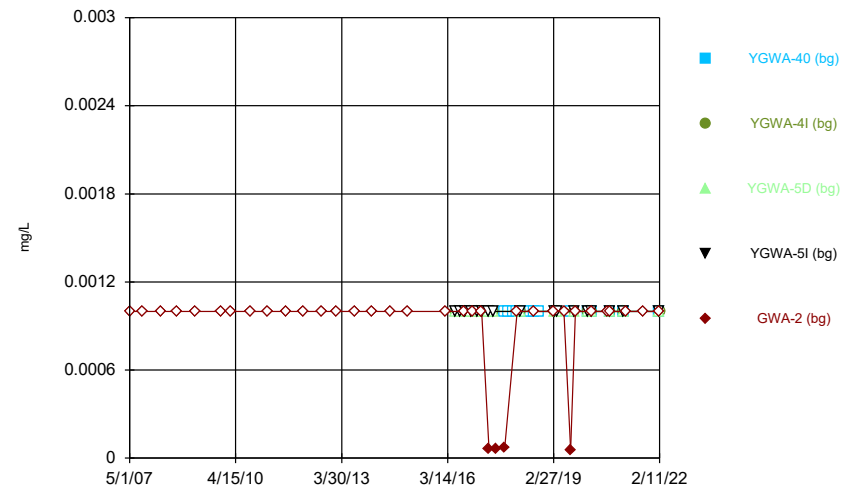
Constituent: Thallium Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



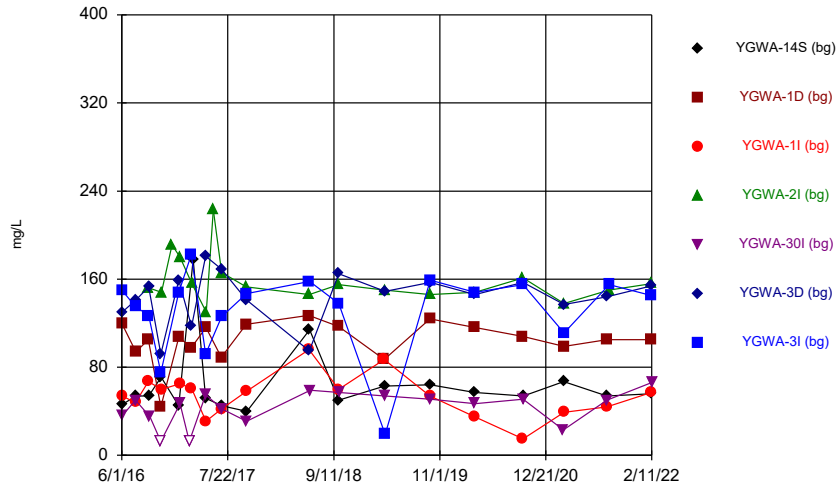
Constituent: Thallium Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



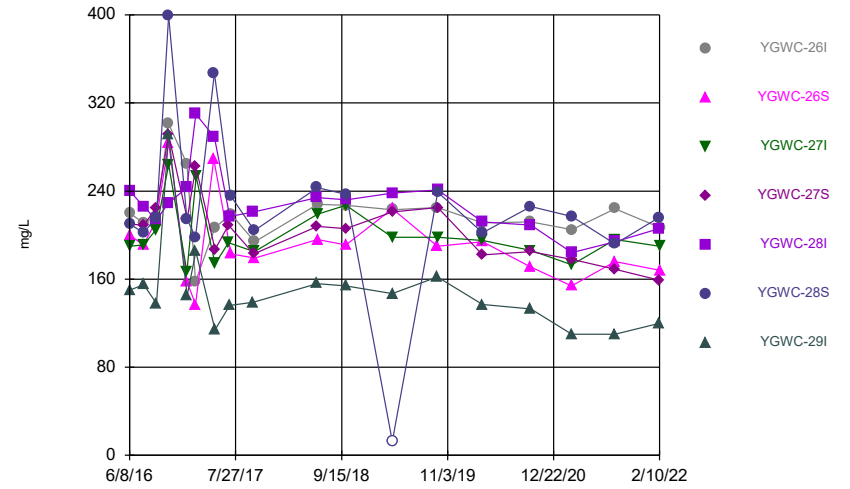
Constituent: Thallium Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



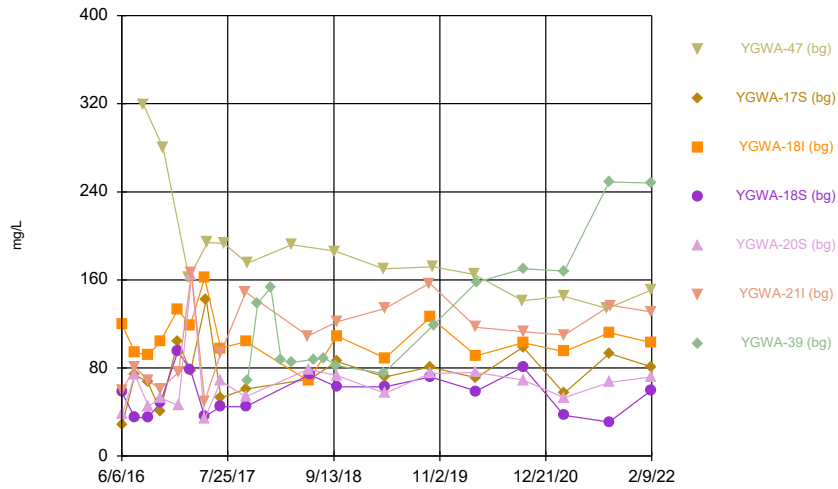
Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



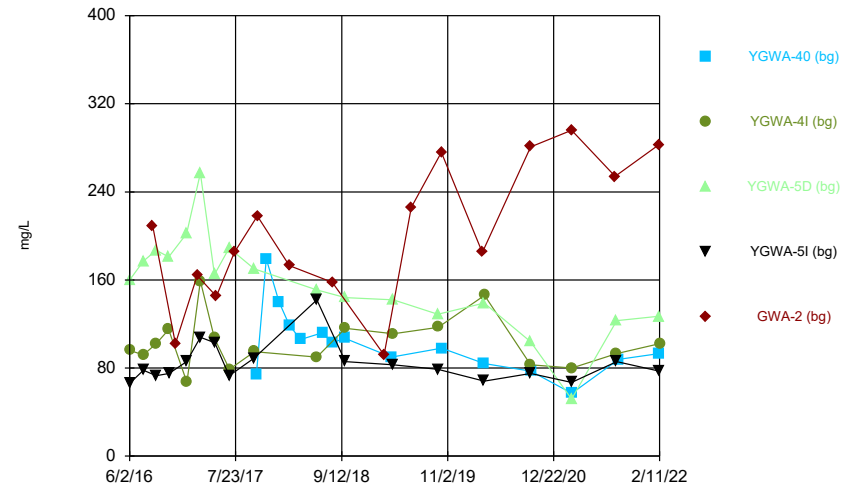
Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.003	<0.003				<0.003
6/2/2016	<0.003				<0.003	<0.003	
7/25/2016			<0.003		<0.003		<0.003
7/26/2016	0.0005 (J)	0.001 (J)				0.002 (J)	
9/13/2016		0.001 (J)	<0.003				
9/14/2016				<0.003			<0.003
9/15/2016	<0.003					0.0027 (J)	
9/19/2016					<0.003		
11/1/2016		0.0015 (J)			<0.003	<0.003	<0.003
11/2/2016	<0.003						
11/4/2016			<0.003	<0.003			
12/15/2016				0.0012 (J)			
1/10/2017	<0.003						
1/11/2017		<0.003				<0.003	<0.003
1/16/2017			<0.003	<0.003	<0.003		
2/21/2017					<0.003		
3/1/2017							<0.003
3/2/2017		0.0004 (J)	<0.003			0.0008 (J)	
3/3/2017				<0.003			
3/8/2017	<0.003						
4/26/2017	<0.003				<0.003	<0.003	<0.003
4/27/2017		0.0004 (J)	0.0017 (J)				
4/28/2017				0.0015 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		<0.003	<0.003				
6/28/2017				<0.003		<0.003	<0.003
6/30/2017	<0.003				<0.003		
3/27/2018	<0.003		<0.003		<0.003		
3/28/2018				<0.003		<0.003	<0.003
3/29/2018		<0.003					
2/26/2019	<0.003				<0.003		
2/27/2019		<0.003	<0.003	<0.003		<0.003	<0.003
2/10/2020		0.00088 (J)	<0.003				
2/11/2020				0.00036 (J)			<0.003
2/12/2020	<0.003				<0.003	<0.003	
3/18/2020	<0.003		0.0004 (J)				
3/19/2020		<0.003		0.0003 (J)	<0.003	0.00064 (J)	<0.003
9/23/2020		<0.003	<0.003	<0.003		<0.003	<0.003
9/24/2020					<0.003		
9/25/2020	<0.003						
2/10/2021	<0.003			0.0013 (J)		<0.003	<0.003
2/11/2021					<0.003		
2/12/2021		<0.003	<0.003				
3/1/2021					<0.003		
3/2/2021	<0.003						
3/3/2021		<0.003	<0.003	<0.003		<0.003	<0.003
8/19/2021	<0.003	<0.003	<0.003		<0.003	<0.003	
8/27/2021				<0.003			<0.003
2/9/2022		<0.003	<0.003	<0.003		0.0018 (J)	<0.003
2/10/2022	<0.003						
2/11/2022					<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.003	<0.003	<0.003	<0.003			
6/9/2016					<0.003	<0.003	<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003			
8/2/2016					<0.003	<0.003	<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003			
9/21/2016					<0.003	<0.003	<0.003
11/7/2016	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
11/8/2016					<0.003		
1/18/2017	<0.003	<0.003	<0.003		<0.003	<0.003	
1/19/2017				<0.003			<0.003
2/21/2017	<0.003	<0.003				<0.003	
2/22/2017				<0.003	<0.003		<0.003
2/23/2017			<0.003				
5/3/2017		<0.003					
5/5/2017					<0.003	<0.003	
5/8/2017	<0.003		<0.003	<0.003			<0.003
6/30/2017			<0.003	<0.003			
7/5/2017					<0.003		<0.003
7/7/2017						<0.003	
7/10/2017	<0.003	<0.003					
3/29/2018			<0.003	<0.003			<0.003
3/30/2018	<0.003	<0.003			<0.003	<0.003	
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
3/19/2020		0.0017 (J)			<0.003	<0.003	
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)			<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003	<0.003	<0.003			
2/11/2021					<0.003		
2/12/2021						<0.003	<0.003
3/2/2021		<0.003					
3/3/2021	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
8/19/2021		<0.003					
8/20/2021	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
2/8/2022				<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.003	<0.003			
6/7/2016		<0.003			<0.003	<0.003	
7/27/2016		<0.003	0.0005 (J)	<0.003	<0.003		
7/28/2016						<0.003	
8/30/2016	0.0028 (J)						
9/16/2016		<0.003		<0.003			
9/19/2016			<0.003		<0.003	0.001 (J)	
11/2/2016					<0.003		
11/3/2016		<0.003	<0.003	<0.003		<0.003	
11/14/2016	<0.003						
1/11/2017		<0.003	<0.003	<0.003			
1/13/2017					<0.003	<0.003	
2/24/2017	<0.003						
3/1/2017			<0.003	<0.003			
3/2/2017		<0.003					
3/6/2017					<0.003	0.0005 (J)	
4/26/2017			<0.003	<0.003	<0.003	<0.003	
5/2/2017		<0.003					
5/8/2017	0.0004 (J)						
6/28/2017			<0.003	<0.003			
6/29/2017		<0.003			<0.003	<0.003	
7/11/2017	0.0006 (J)						
10/10/2017	<0.003						
10/11/2017							0.0006 (J)
11/20/2017							<0.003
1/11/2018							<0.003
2/20/2018							<0.003
3/28/2018		<0.003	<0.003	<0.003			
3/29/2018					<0.003	<0.003	
4/2/2018	<0.003						
4/3/2018							<0.003
6/28/2018							<0.003
8/7/2018							<0.003
9/19/2018	<0.003						
9/24/2018							<0.003
3/5/2019		<0.003		<0.003	<0.003	0.0011 (J)	
3/6/2019			<0.003				
4/2/2019		<0.003				0.0011 (J)	
4/3/2019			<0.003	<0.003	<0.003		
8/20/2019	<0.003						
8/21/2019							<0.003
9/24/2019						0.0035	
9/25/2019		<0.003			<0.003		
9/26/2019			0.00056 (J)	<0.003			
2/11/2020		<0.003	<0.003	<0.003			
2/12/2020					<0.003	0.0015 (J)	<0.003
3/24/2020		<0.003	<0.003	<0.003	<0.003	0.0017 (J)	
3/25/2020							0.0014 (J)
8/27/2020	0.00048 (J)						
9/22/2020	<0.003						
9/23/2020		<0.003	<0.003	<0.003			
9/24/2020					<0.003	0.0047	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/9/2021			<0.003	<0.003	0.00032 (J)	0.0013 (J)	
2/10/2021							<0.003
3/1/2021	0.00048 (J)						
3/3/2021		<0.003	<0.003	0.00067 (J)	<0.003		
3/4/2021						0.0014 (J)	<0.003
8/19/2021	<0.003						
8/26/2021				<0.003			<0.003
8/27/2021		<0.003	<0.003		<0.003		
9/1/2021						<0.003	
2/8/2022	<0.003						<0.003
2/9/2022		<0.003	<0.003	<0.003	<0.003	<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.003	<0.003	<0.003	
7/26/2016		0.0003 (J)	<0.003	<0.003	
8/31/2016					<0.003
9/14/2016		<0.003	<0.003	<0.003	
11/2/2016		<0.003	<0.003		
11/4/2016				<0.003	
11/28/2016					0.0014 (J)
1/12/2017			<0.003	<0.003	
1/13/2017		<0.003			
2/22/2017					<0.003
3/6/2017		<0.003			
3/7/2017			<0.003	<0.003	
5/1/2017		<0.003	<0.003		
5/2/2017				<0.003	
5/8/2017					<0.003
6/27/2017			<0.003	<0.003	
6/29/2017		<0.003			
7/17/2017					<0.003
10/12/2017	<0.003				
10/16/2017					<0.003
11/20/2017	<0.003				
1/10/2018	<0.003				
2/19/2018	<0.003				<0.003
3/29/2018		<0.003	<0.003	<0.003	
4/3/2018	<0.003				
6/28/2018	<0.003				
8/6/2018					<0.003
8/7/2018	<0.003				
9/24/2018	<0.003				
2/25/2019					<0.003
3/4/2019		<0.003	<0.003	<0.003	
4/3/2019		<0.003	<0.003	<0.003	
6/12/2019					<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.003
8/21/2019	<0.003				
9/24/2019			<0.003	<0.003	
9/25/2019		<0.003			
10/8/2019					<0.003
2/12/2020	<0.003	<0.003	<0.003	<0.003	
3/17/2020					<0.003
3/24/2020	<0.003		<0.003	<0.003	
3/25/2020		<0.003			
8/26/2020					0.00042 (J)
9/22/2020		<0.003	<0.003	<0.003	0.00044 (J)
9/24/2020	<0.003				
2/8/2021			<0.003	<0.003	
2/9/2021		<0.003			
2/10/2021	<0.003				
3/2/2021			<0.003	<0.003	<0.003
3/3/2021		<0.003			
3/4/2021	<0.003				
8/20/2021					<0.003
8/26/2021		<0.003	<0.003	<0.003	
9/3/2021	<0.003				
2/8/2022	<0.003				<0.003
2/10/2022			<0.003	<0.003	
2/11/2022		<0.003			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0021	<0.005				<0.005
6/2/2016	<0.005				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	0.0016 (J)				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	0.0017 (J)			
12/15/2016				0.0023 (J)			
1/10/2017	<0.005						
1/11/2017		0.0017 (J)				<0.005	<0.005
1/16/2017			<0.005	0.0018 (J)	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0014 (J)	<0.005			<0.005	
3/3/2017				0.0016 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		0.0018 (J)	<0.005				
4/28/2017				0.002 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		0.0018 (J)	<0.005				
6/28/2017				0.0016 (J)		0.0007 (J)	0.0011 (J)
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				0.0013 (J)		<0.005	<0.005
3/29/2018		0.0017 (J)					
6/5/2018		0.0013 (J)					
6/6/2018			<0.005				
6/7/2018				0.00082 (J)		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					<0.005		
10/1/2018	<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005	<0.005
10/2/2018					<0.005		
2/26/2019	<0.005				<0.005		
2/27/2019		0.0015 (J)	<0.005	0.001 (J)		<0.005	<0.005
3/28/2019		0.00072 (J)	<0.005				
3/29/2019	<0.005			0.00063 (J)			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.0014 (J)	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		0.0026 (J)	0.0005 (J)				
2/11/2020				0.0044 (J)			0.0041 (J)
2/12/2020	<0.005				0.0032 (J)	0.0038 (J)	
3/18/2020	<0.005		<0.005				
3/19/2020		0.00095 (J)		0.00066 (J)	<0.005	<0.005	<0.005
9/23/2020		0.0011 (J)	<0.005	0.001 (J)		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		0.00094 (J)	0.00078 (J)
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	0.00098 (J)		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.0031 (J)	0.0033 (J)	0.0037 (J)		0.002 (J)	0.0018 (J)
2/10/2022	0.0016 (J)						
2/11/2022					0.0014 (J)		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	<0.005
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		<0.005
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
3/29/2018			0.0006 (J)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
6/11/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
10/2/2018	<0.005	<0.005	<0.005	<0.005			<0.005
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	<0.005				<0.005	
9/25/2019	<0.005	<0.005					<0.005
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	<0.005			
6/7/2016		<0.005			<0.005	<0.005	
7/27/2016		<0.005	<0.005	<0.005	<0.005		
7/28/2016						<0.005	
8/30/2016	<0.005						
9/16/2016		<0.005		<0.005			
9/19/2016			<0.005		<0.005	<0.005	
11/2/2016					<0.005		
11/3/2016		<0.005	<0.005	<0.005		<0.005	
11/14/2016	<0.005						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	<0.005						
3/1/2017			<0.005	<0.005			
3/2/2017		<0.005					
3/6/2017					<0.005	0.0017 (J)	
4/26/2017			<0.005	<0.005	<0.005	<0.005	
5/2/2017		<0.005					
5/8/2017	<0.005						
6/28/2017			<0.005	<0.005			
6/29/2017		<0.005			<0.005	<0.005	
7/11/2017	<0.005						
10/10/2017	0.0007 (J)						
10/11/2017							0.0009 (J)
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	0.00061 (J)			
3/29/2018					<0.005	0.0015 (J)	
4/2/2018	<0.005						
4/3/2018							<0.005
6/5/2018						0.0013 (J)	
6/6/2018					<0.005		
6/7/2018			0.00066 (J)				
6/11/2018		<0.005		<0.005			
6/28/2018							<0.005
8/7/2018							<0.005
9/19/2018	0.00072 (J)						
9/24/2018							<0.005
9/25/2018		<0.005	<0.005	<0.005	<0.005	0.0022 (J)	
3/5/2019		<0.005		<0.005	<0.005	0.0013 (J)	
3/6/2019			<0.005				
4/2/2019		<0.005				0.00096 (J)	
4/3/2019			<0.005	<0.005	<0.005		
8/20/2019	<0.005						
8/21/2019							0.00058 (J)
9/24/2019						0.0026 (J)	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/8/2019	<0.005						
10/9/2019							0.00063 (J)
2/11/2020		0.0022 (J)	0.0014 (J)	0.0026 (J)			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.005	0.0025 (J)	0.00058 (J)
3/17/2020	<0.005						
3/24/2020		<0.005	<0.005	<0.005	<0.005	0.0013 (J)	
3/25/2020							0.0012 (J)
8/27/2020	<0.005						
9/22/2020	<0.005						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	0.0014 (J)	<0.005
2/9/2021			<0.005	<0.005	<0.005	0.001 (J)	
2/10/2021							<0.005
3/1/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005	<0.005		
3/4/2021						0.00078 (J)	<0.005
8/19/2021	<0.005						
8/26/2021				<0.005			<0.005
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						<0.005	
2/8/2022	0.0027 (J)						0.0034 (J)
2/9/2022		0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)	0.0036 (J)	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.005	0.00071 (J)	<0.005	
7/26/2016		<0.005	0.001 (J)	<0.005	
8/31/2016					<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<0.005
3/6/2017		<0.005			
3/7/2017			0.0012 (J)	<0.005	
5/1/2017		<0.005	<0.005		
5/2/2017				<0.005	
5/8/2017					<0.005
6/27/2017			0.0019 (J)	<0.005	
6/29/2017		<0.005			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017					<0.005
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	0.0006 (J)	<0.005	
4/3/2018	<0.005				
6/6/2018			0.0013 (J)		
6/7/2018		0.00059 (J)		<0.005	
6/28/2018	<0.005				
8/6/2018					<0.005
8/7/2018	<0.005				
9/24/2018	<0.005				
9/26/2018		<0.005	0.0014 (J)	<0.005	
2/25/2019					<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		<0.005	<0.005	<0.005	
6/12/2019					0.00038 (J)
8/19/2019					0.00095 (J)
8/21/2019	<0.005				
9/24/2019			0.00043 (J)	<0.005	
9/25/2019		<0.005			
10/8/2019					<0.005
10/9/2019	<0.005				
2/12/2020	0.0034 (J)	<0.005	0.0046 (J)	0.002 (J)	
3/17/2020					<0.005
3/24/2020	<0.005		0.00065 (J)	<0.005	
3/25/2020		<0.005			
8/26/2020					<0.005
9/22/2020		<0.005	0.001 (J)	<0.005	<0.005
9/24/2020	<0.005				
2/8/2021			<0.005	<0.005	
2/9/2021		<0.005			
2/10/2021	<0.005				
3/2/2021			<0.005	<0.005	<0.005
3/3/2021		<0.005			
3/4/2021	<0.005				
8/20/2021					<0.005
8/26/2021		<0.005	0.0016 (J)	<0.005	
9/3/2021	<0.005				
2/8/2022	0.003 (J)				0.0033 (J)
2/10/2022			0.004 (J)	0.0016 (J)	
2/11/2022		0.0014 (J)			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.008	0.012				0.0038
6/2/2016	0.0081				0.0064	0.01	
7/25/2016			0.0091 (J)		0.0071 (J)		0.0031 (J)
7/26/2016	0.0082 (J)	0.006 (J)				0.0088 (J)	
9/13/2016		0.0084 (J)	0.008 (J)				
9/14/2016				0.0037 (J)			0.0027 (J)
9/15/2016	0.0087 (J)					0.009 (J)	
9/19/2016					0.0069 (J)		
11/1/2016		0.0062 (J)			0.007 (J)	0.0079 (J)	0.0027 (J)
11/2/2016	0.0082 (J)						
11/4/2016			0.0067 (J)	0.0059 (J)			
12/15/2016				0.0056 (J)			
1/10/2017	0.0086 (J)						
1/11/2017		0.0069 (J)				0.0075 (J)	0.0036 (J)
1/16/2017			0.0096 (J)	0.0049 (J)	0.0071 (J)		
2/21/2017					0.0077 (J)		
3/1/2017							0.0036 (J)
3/2/2017		0.0071 (J)	0.0112			0.009 (J)	
3/3/2017				0.0046 (J)			
3/8/2017	0.0088 (J)						
4/26/2017	0.0085 (J)				0.0074 (J)	0.0078 (J)	0.0038 (J)
4/27/2017		0.0064 (J)	0.0106				
4/28/2017				0.0039 (J)			
5/26/2017				0.0034 (J)			
6/27/2017		0.0054 (J)	0.0092 (J)				
6/28/2017				0.003 (J)		0.0071 (J)	0.004 (J)
6/30/2017	0.0081 (J)				0.0076 (J)		
3/27/2018	<0.01		<0.01		<0.01		
3/28/2018				<0.01		<0.01	<0.01
3/29/2018		<0.01					
6/5/2018		0.0069 (J)					
6/6/2018			0.0082 (J)				
6/7/2018				0.0037 (J)		0.0068 (J)	
6/8/2018	0.007 (J)						0.0034 (J)
6/11/2018					0.007 (J)		
10/1/2018	0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)		0.0065 (J)	0.0034 (J)
10/2/2018					0.0069 (J)		
2/26/2019	0.0067 (J)				0.007 (J)		
2/27/2019		0.0074 (J)	0.008 (J)	0.0035 (J)		0.0059 (J)	0.0034 (J)
3/28/2019		0.0082 (J)	0.0082 (J)				
3/29/2019	0.0066 (J)			0.0039 (J)			
4/1/2019					0.0072 (J)	0.0064 (J)	0.003 (J)
9/24/2019		0.0072 (J)	0.0086 (J)	0.0038 (J)			
9/25/2019	0.0071 (J)				0.0066 (J)	0.0059 (J)	0.005 (J)
2/10/2020		0.0066 (J)	0.0091 (J)				
2/11/2020				0.0036 (J)			0.0031 (J)
2/12/2020	0.007 (J)				0.0073 (J)	0.0062 (J)	
3/18/2020	0.0076 (J)		0.0084 (J)				
3/19/2020		0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)	0.0029 (J)
9/23/2020		0.0068 (J)	0.0079 (J)	0.0039 (J)		0.0051 (J)	0.0039 (J)
9/24/2020					0.0062 (J)		
9/25/2020	0.0073 (J)						

Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	0.0078 (J)			0.0032 (J)		0.0059 (J)	0.0029 (J)
2/11/2021					0.0077 (J)		
2/12/2021		0.0057 (J)	0.009 (J)				
3/1/2021					0.007		
3/2/2021	0.0076						
3/3/2021		0.0068	0.0094	0.0041 (J)		0.0064	0.0031 (J)
8/19/2021	0.0077	0.0065	0.0079		0.0071	0.0052	
8/27/2021				0.003 (J)			0.0039 (J)
2/9/2022		0.0067	0.0088	0.0029 (J)		0.0051	0.0031 (J)
2/10/2022	0.0088						
2/11/2022					0.0077		

Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	0.082
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	0.0781
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	0.0782
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	0.0712
11/8/2016					0.0886		
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			0.0689
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		0.0741
2/23/2017			0.0728				
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0725
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		0.0677
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
3/29/2018			0.062	0.097			0.055
3/30/2018	0.063	0.026			0.087	0.2	
6/11/2018							0.068
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
10/2/2018	0.066	0.026	0.062	0.1			0.067
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	0.067
4/1/2019			0.066	0.099	0.088		0.063
4/2/2019	0.065	0.027				0.2	
9/25/2019	0.063	0.026					0.061
9/26/2019			0.065	0.099	0.087	0.18	
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	0.053
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			0.057
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	0.21
3/2/2021		0.031					
3/3/2021	0.064		0.08	0.075	0.077	0.25	0.059
8/19/2021		0.023					
8/20/2021	0.063		0.083	0.082	0.079	0.24	0.057
2/8/2022				0.068	0.083	0.2	0.057
2/10/2022	0.063	0.027	0.079				

Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.028	0.019			
6/7/2016		0.012			0.014	0.0058	
7/27/2016		0.0126	0.0294	0.0167	0.0141		
7/28/2016						0.0068 (J)	
8/30/2016	0.0413						
9/16/2016		0.0127		0.0168			
9/19/2016			0.0247		0.0155	0.0071 (J)	
11/2/2016					0.0157		
11/3/2016		0.0128	0.0248	0.0159		0.0092 (J)	
11/14/2016	0.0383						
1/11/2017		0.0142	0.0266	0.0162			
1/13/2017					0.0158	0.0105	
2/24/2017	0.0351						
3/1/2017			0.0275	0.0195			
3/2/2017		0.0155					
3/6/2017					0.0163	0.0105	
4/26/2017			0.024	0.0182	0.0177	0.011	
5/2/2017		0.0138					
5/8/2017	0.0251						
6/28/2017			0.0237	0.018			
6/29/2017		0.0128			0.017	0.0109	
7/11/2017	0.0233						
10/10/2017	0.0207						
10/11/2017							0.0092 (J)
11/20/2017							0.0081 (J)
1/11/2018							0.0077 (J)
2/20/2018							<0.01
3/28/2018		0.014	0.024	0.021			
3/29/2018					0.014	<0.01	
4/2/2018	0.022						
4/3/2018							<0.01
6/5/2018						0.011	
6/6/2018					0.015		
6/7/2018			0.023				
6/11/2018		0.013		0.019			
6/28/2018							0.0078 (J)
8/7/2018							0.0078 (J)
9/19/2018	0.023						
9/24/2018							0.0071 (J)
9/25/2018		0.014	0.023	0.019	0.015	0.011	
3/5/2019		0.015		0.02	0.016	0.011	
3/6/2019			0.024				
4/2/2019		0.016				0.011	
4/3/2019			0.025	0.017	0.018		
8/20/2019	0.024						
8/21/2019							0.015
9/24/2019						0.011	
9/25/2019		0.015			0.014		
9/26/2019			0.021	0.017			
10/8/2019	0.025						
10/9/2019							0.013
2/11/2020		0.015	0.022	0.019			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					0.014	0.011	0.011
3/17/2020	0.035						
3/24/2020		0.015	0.021	0.017	0.015	0.011	
3/25/2020							0.014
8/27/2020	0.027						
9/22/2020	0.026						
9/23/2020		0.015	0.021	0.016			
9/24/2020					0.015	0.01	0.016
2/9/2021			0.023	0.017	0.015	0.011	
2/10/2021							0.027
3/1/2021	0.029						
3/3/2021		0.017	0.023	0.017	0.015		
3/4/2021						0.011	0.028
8/19/2021	0.029						
8/26/2021				0.015			0.038
8/27/2021		0.016	0.02		0.013		
9/1/2021						0.0099	
2/8/2022	0.03						0.041
2/9/2022		0.017	0.021	0.014	0.014	0.011	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		0.013	0.0084	0.019	
7/26/2016		0.0158	0.01	0.0179	
8/31/2016					0.0542
9/14/2016		0.0143	0.0085 (J)	0.0181	
11/2/2016		0.0148	0.0091 (J)		
11/4/2016				0.0165	
11/28/2016					0.0529
1/12/2017			0.0089 (J)	0.0199	
1/13/2017		0.0146			
2/22/2017					0.0607
3/6/2017		0.0141			
3/7/2017			0.009 (J)	0.0196	
5/1/2017		0.0149	0.0083 (J)		
5/2/2017				0.0202	
5/8/2017					0.065
6/27/2017			0.0074 (J)	0.0184	
6/29/2017		0.0154			
7/17/2017					0.06
10/12/2017	0.0328				
10/16/2017					0.0542
11/20/2017	0.0671				
1/10/2018	0.0656				
2/19/2018	0.0598				0.0533
3/29/2018		0.014	<0.01	0.021	
4/3/2018	0.045				
6/6/2018			0.008 (J)		
6/7/2018		0.014		0.019	
6/28/2018	0.047				
8/6/2018					0.044
8/7/2018	0.048				
9/24/2018	0.042				
9/26/2018		0.02	0.0075 (J)	0.019	
2/25/2019					0.045

Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		0.016	0.0077 (J)	0.019	
4/3/2019		0.017	0.0087 (J)	0.023	
6/12/2019					0.063
8/19/2019					0.065
8/21/2019	0.035				
9/24/2019			0.0075 (J)	0.019	
9/25/2019		0.015			
10/8/2019					0.058
10/9/2019	0.036				
2/12/2020	0.035	0.012	0.0079 (J)	0.021	
3/17/2020					0.047
3/24/2020	0.033		0.0076 (J)	0.021	
3/25/2020		0.016			
8/26/2020					0.044
9/22/2020		0.013	0.0076 (J)	0.019	0.045
9/24/2020	0.028				
2/8/2021			0.0079 (J)	0.02	
2/9/2021		0.013			
2/10/2021	0.032				
3/2/2021			0.014	0.019	0.039
3/3/2021		0.014			
3/4/2021	0.032				
8/20/2021					0.036
8/26/2021		0.012	0.0092	0.019	
9/3/2021	0.035				
2/8/2022	0.039				0.037
2/10/2022			0.0084	0.02	
2/11/2022		0.013			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0005	<0.0005				<0.0005
6/2/2016	<0.0005				<0.0005	<0.0005	
7/25/2016			<0.0005		<0.0005		<0.0005
7/26/2016	0.0002 (J)	<0.0005				<0.0005	
9/13/2016		<0.0005	<0.0005				
9/14/2016				<0.0005			<0.0005
9/15/2016	0.0002 (J)					<0.0005	
9/19/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	<0.0005
11/2/2016	0.0002 (J)						
11/4/2016			<0.0005	<0.0005			
12/15/2016				<0.0005			
1/10/2017	0.0002 (J)						
1/11/2017		<0.0005				<0.0005	<0.0005
1/16/2017			<0.0005	<0.0005	<0.0005		
2/21/2017					<0.0005		
3/1/2017							<0.0005
3/2/2017		<0.0005	<0.0005			<0.0005	
3/3/2017				<0.0005			
3/8/2017	0.0002 (J)						
4/26/2017	0.0002 (J)				<0.0005	<0.0005	<0.0005
4/27/2017		<0.0005	<0.0005				
4/28/2017				<0.0005			
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0005				
6/28/2017				<0.0005		<0.0005	<0.0005
6/30/2017	0.0002 (J)				<0.0005		
3/27/2018	<0.0005		<0.0005		<0.0005		
3/28/2018				<0.0005		<0.0005	<0.0005
3/29/2018		<0.0005					
2/26/2019	0.00016 (J)				7.2E-05 (J)		
2/27/2019		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005				
3/29/2019	0.00017 (J)			<0.0005			
4/1/2019					<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005	<0.0005	<0.0005			
9/25/2019	0.00018 (J)				<0.0005	<0.0005	<0.0005
2/10/2020		<0.0005	<0.0005				
2/11/2020				<0.0005			<0.0005
2/12/2020	0.00019 (J)				<0.0005	<0.0005	
3/18/2020	0.00021 (J)		<0.0005				
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005		<0.0005	5.9E-05 (J)
9/24/2020					<0.0005		
9/25/2020	0.00018 (J)						
2/10/2021	0.00019 (J)			<0.0005		<0.0005	<0.0005
2/11/2021					4.7E-05 (J)		
2/12/2021		<0.0005	<0.0005				
3/1/2021					<0.0005		
3/2/2021	0.00018 (J)						
3/3/2021		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2021	0.00022 (J)	<0.0005	<0.0005		<0.0005	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
2/10/2022	0.00025 (J)						
2/11/2022				<0.0005			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					<0.0005	<0.0005	<0.0005
8/1/2016	<0.0005	0.0002 (J)	<0.0005	<0.0005			
8/2/2016					<0.0005	<0.0005	<0.0005
9/20/2016	<0.0005	0.0001 (J)	9E-05 (J)	<0.0005			
9/21/2016					<0.0005	<0.0005	<0.0005
11/7/2016	<0.0005	0.0001 (J)	0.0001 (J)	<0.0005		<0.0005	<0.0005
11/8/2016					<0.0005		
1/18/2017	<0.0005	0.0002 (J)	0.0002 (J)		<0.0005	<0.0005	
1/19/2017				<0.0005			<0.0005
2/21/2017	<0.0005	0.0002 (J)				<0.0005	
2/22/2017				<0.0005	<0.0005		<0.0005
2/23/2017			0.0002 (J)				
5/3/2017		0.0002 (J)					
5/5/2017					<0.0005	<0.0005	
5/8/2017	<0.0005		0.0002 (J)	<0.0005			<0.0005
6/30/2017			0.0002 (J)	<0.0005			
7/5/2017					<0.0005		<0.0005
7/7/2017						<0.0005	
7/10/2017	<0.0005	0.0002 (J)					
3/29/2018			<0.0005	<0.0005			<0.0005
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
2/27/2019	<0.0005	0.00018 (J)	0.00022 (J)	<0.0005	<0.0005	<0.0005	<0.0005
4/1/2019			0.00022 (J)	<0.0005	<0.0005		<0.0005
4/2/2019	<0.0005	0.00015 (J)				<0.0005	
9/25/2019	<0.0005	0.00011 (J)					<0.0005
9/26/2019			0.0002 (J)	<0.0005	<0.0005	<0.0005	
2/13/2020	<0.0005	0.00015 (J)	0.00021 (J)	<0.0005	<0.0005	<0.0005	<0.0005
3/19/2020		0.00012 (J)			<0.0005	<0.0005	
3/20/2020	<0.0005		0.00023 (J)	<0.0005			<0.0005
9/24/2020	<0.0005	8.5E-05 (J)	0.00019 (J)	<0.0005	<0.0005	<0.0005	<0.0005
2/10/2021	<0.0005	0.00013 (J)	0.00014 (J)	6.6E-05 (J)			
2/11/2021					<0.0005		
2/12/2021						<0.0005	<0.0005
3/2/2021		0.00016 (J)					
3/3/2021	<0.0005		0.00013 (J)	<0.0005	<0.0005	<0.0005	<0.0005
8/19/2021		8.2E-05 (J)					
8/20/2021	<0.0005		8.6E-05 (J)	0.00011 (J)	<0.0005	<0.0005	<0.0005
2/8/2022				<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005	9.3E-05 (J)	0.00013 (J)				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0005	<0.0005			
6/7/2016		<0.0005			<0.0005	<0.0005	
7/27/2016		<0.0005	<0.0005	<0.0005	<0.0005		
7/28/2016						<0.0005	
8/30/2016	<0.0005						
9/16/2016		<0.0005		<0.0005			
9/19/2016			<0.0005		<0.0005	<0.0005	
11/2/2016					<0.0005		
11/3/2016		<0.0005	<0.0005	<0.0005			<0.0005
11/14/2016	<0.0005						
1/11/2017		<0.0005	<0.0005	<0.0005			
1/13/2017					<0.0005	<0.0005	
2/24/2017	<0.0005						
3/1/2017			<0.0005	<0.0005			
3/2/2017		8E-05 (J)					
3/6/2017					<0.0005	<0.0005	
4/26/2017			<0.0005	<0.0005	<0.0005	<0.0005	
5/2/2017		<0.0005					
5/8/2017	7E-05 (J)						
6/28/2017			<0.0005	<0.0005			
6/29/2017		<0.0005			<0.0005	<0.0005	
7/11/2017	<0.0005						
10/10/2017	<0.0005						
10/11/2017							<0.0005
11/20/2017							<0.0005
1/11/2018							<0.0005
2/20/2018							<0.0005
3/28/2018		<0.0005	<0.0005	<0.0005			
3/29/2018					<0.0005	<0.0005	
4/2/2018	<0.0005						
4/3/2018							<0.0005
6/5/2018						<0.0005	
6/6/2018					8E-05 (J)		
6/7/2018			<0.0005				
6/11/2018		9E-05 (J)		5.7E-05 (J)			
6/28/2018							<0.0005
8/7/2018							<0.0005
9/19/2018	5.7E-05 (J)						
9/24/2018							<0.0005
9/25/2018		8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)	<0.0005	
3/5/2019		9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)	<0.0005	
3/6/2019			<0.0005				
4/2/2019		9E-05 (J)				<0.0005	
4/3/2019			<0.0005	7.5E-05 (J)	6.4E-05 (J)		
8/20/2019	<0.0005						
8/21/2019							<0.0005
9/24/2019						<0.0005	
9/25/2019		8.1E-05 (J)			<0.0005		
9/26/2019			<0.0005	8.4E-05 (J)			
10/9/2019							<0.0005
2/11/2020		7.8E-05 (J)	<0.0005	7.6E-05 (J)			
2/12/2020					7.8E-05 (J)	<0.0005	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/24/2020		8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)	<0.0005	
3/25/2020							<0.0005
8/27/2020	4.7E-05 (J)						
9/22/2020	<0.0005						
9/23/2020		8.1E-05 (J)	<0.0005	8.8E-05 (J)			
9/24/2020					8.3E-05 (J)	<0.0005	<0.0005
2/9/2021			<0.0005	9.8E-05 (J)	6.8E-05 (J)	<0.0005	
2/10/2021							5.1E-05 (J)
3/1/2021	5.5E-05 (J)						
3/3/2021		9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)		
3/4/2021						<0.0005	<0.0005
8/19/2021	<0.0005						
8/26/2021				9.3E-05 (J)			<0.0005
8/27/2021		0.0001 (J)	<0.0005		5.9E-05 (J)		
9/1/2021						<0.0005	
2/8/2022	5.6E-05 (J)						<0.0005
2/9/2022		0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.0005	<0.0005	<0.0005	
7/26/2016		<0.0005	<0.0005	<0.0005	
8/31/2016					<0.0005
9/14/2016		<0.0005	<0.0005	<0.0005	
11/2/2016		<0.0005	<0.0005		
11/4/2016				<0.0005	
11/28/2016					<0.0005
1/12/2017			<0.0005	<0.0005	
1/13/2017		<0.0005			
2/22/2017					<0.0005
3/6/2017		<0.0005			
3/7/2017			<0.0005	<0.0005	
5/1/2017		<0.0005	<0.0005		
5/2/2017				<0.0005	
5/8/2017					<0.0005
6/27/2017			<0.0005	<0.0005	
6/29/2017		<0.0005			
7/17/2017					<0.0005
10/12/2017	0.0002 (J)				
10/16/2017					<0.0005
11/20/2017	0.0003 (J)				
1/10/2018	0.0003 (J)				
2/19/2018	<0.0005				<0.0005
3/29/2018		<0.0005	<0.0005	<0.0005	
4/3/2018	<0.0005				
6/6/2018			<0.0005		
6/7/2018		<0.0005		<0.0005	
6/28/2018	0.00029 (J)				
8/6/2018					<0.0005
8/7/2018	0.00024 (J)				
9/24/2018	0.00019 (J)				
9/26/2018		<0.0005	<0.0005	<0.0005	
2/25/2019					<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.0005	<0.0005	<0.0005	
4/3/2019		<0.0005	<0.0005	<0.0005	
6/12/2019					<0.0005
8/19/2019					<0.0005
8/21/2019	0.0002 (J)				
9/24/2019			<0.0005	<0.0005	
9/25/2019		<0.0005			
10/8/2019					<0.0005
10/9/2019	0.0002 (J)				
2/12/2020	0.00018 (J)	<0.0005	<0.0005	<0.0005	
3/17/2020					<0.0005
3/24/2020	0.00022 (J)		<0.0005	<0.0005	
3/25/2020		<0.0005			
8/26/2020					<0.0005
9/22/2020		<0.0005	<0.0005	<0.0005	<0.0005
9/24/2020	0.0002 (J)				
2/8/2021			<0.0005	<0.0005	
2/9/2021		<0.0005			
2/10/2021	0.00021 (J)				
3/2/2021			<0.0005	<0.0005	<0.0005
3/3/2021		<0.0005			
3/4/2021	0.00021 (J)				
8/20/2021					<0.0005
8/26/2021		<0.0005	<0.0005	<0.0005	
9/3/2021	0.00024 (J)				
2/8/2022	0.00028 (J)				<0.0005
2/10/2022			<0.0005	<0.0005	
2/11/2022		<0.0005			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.04	<0.04				<0.04
6/2/2016	<0.04				<0.04	<0.04	
7/25/2016			<0.04		<0.04		<0.04
7/26/2016	0.0177 (J)	0.0055 (J)				0.0097 (J)	
9/13/2016		<0.04	<0.04				
9/14/2016				<0.04			<0.04
9/15/2016	0.0214 (J)					0.0102 (J)	
9/19/2016					<0.04		
11/1/2016		0.0086 (J)			<0.04	<0.04	<0.04
11/2/2016	<0.04						
11/4/2016			<0.04	<0.04			
12/15/2016				0.0107 (J)			
1/10/2017	0.0198 (J)						
1/11/2017		0.0074 (J)				<0.04	<0.04
1/16/2017			<0.04	<0.04	<0.04		
2/21/2017					<0.04		
3/1/2017							<0.04
3/2/2017		0.008 (J)	<0.04			0.0084 (J)	
3/3/2017				<0.04			
3/8/2017	0.0189 (J)						
4/26/2017	0.0161 (J)				<0.04	<0.04	<0.04
4/27/2017		0.0066 (J)	<0.04				
4/28/2017				<0.04			
5/26/2017				<0.04			
6/27/2017		0.0087 (J)	0.006 (J)				
6/28/2017				<0.04		<0.04	<0.04
6/30/2017	0.0173 (J)				<0.04		
10/3/2017		0.0072 (J)	0.0071 (J)	<0.04			
10/4/2017					<0.04	<0.04	<0.04
10/5/2017	0.0173 (J)						
6/5/2018		0.0052 (J)					
6/6/2018			<0.04				
6/7/2018				<0.04		0.004 (J)	
6/8/2018	0.013 (J)						<0.04
6/11/2018					0.014 (J)		
10/1/2018	0.015 (J)	0.021 (J)	0.0049 (J)	<0.04		<0.04	<0.04
10/2/2018					<0.04		
3/28/2019		0.005 (J)	<0.04				
3/29/2019	0.014 (J)			0.0065 (J)			
4/1/2019					<0.04	<0.04	<0.04
9/24/2019		0.0064 (J)	0.0055 (J)	0.0076 (J)			
9/25/2019	0.018 (J)				<0.04	0.0054 (J)	<0.04
3/18/2020	0.02 (J)		0.0087 (J)				
3/19/2020		0.0085 (J)		0.0073 (J)	0.0052 (J)	0.0073 (J)	0.0053 (J)
9/23/2020		<0.04	<0.04	<0.04		0.012 (J)	0.0073 (J)
9/24/2020					0.0075 (J)		
9/25/2020	0.02 (J)						
3/1/2021					<0.04		
3/2/2021	0.017 (J)						
3/3/2021		<0.04	<0.04	<0.04		<0.04	<0.04
8/19/2021	0.018 (J)	<0.04	<0.04		<0.04	<0.04	
8/27/2021				<0.04			<0.04

Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		<0.04	<0.04	<0.04		0.01 (J)	<0.04
2/10/2022	0.02 (J)						
2/11/2022				<0.04			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.97	0.62	2.2	1.3			
6/9/2016					2.2	2.3	0.88
8/1/2016	0.932	0.643	2	1.36			
8/2/2016					2.22	2.21	0.872
9/20/2016	1.04	0.644	2.02	1.69			
9/21/2016					2.65	2.54	0.853
11/7/2016	0.852	0.621	1.91	1.35		2.49	0.815
11/8/2016					2.44		
1/18/2017	0.972	0.607	1.69		1.88	2.04	
1/19/2017				1.15			0.803
2/21/2017	0.972	0.624				2.29	
2/22/2017				1.3	2.05		0.855
2/23/2017			1.76				
5/3/2017		0.676					
5/5/2017					3.01	3.41	
5/8/2017	1.05		2	1.51			0.884
6/30/2017			2.28	1.47			
7/5/2017					2.7		0.811
7/7/2017						3.01	
7/10/2017	0.855	0.58					
10/5/2017					2.53		0.851
10/6/2017				1.31			
10/9/2017			1.82			2.76	
10/10/2017	0.887	0.612					
6/11/2018							0.9
6/12/2018				1.6	2.8	2.9	
6/13/2018	0.86	0.67	2.2				
10/2/2018	0.93	0.62	1.9	1.4			0.81
10/3/2018					2.3	2.4	
4/1/2019			2.4	1.4	2.7		0.85
4/2/2019	0.9	0.63				2.9	
9/25/2019	0.86	0.63					0.73
9/26/2019			1.9	1.5	2.8	2.5	
3/19/2020		0.73			2.4	2.5	
3/20/2020	0.94		2.1	1.4			0.8
9/24/2020	0.76	0.74	2.3	1.3	2.1	2.6	0.84
3/2/2021		0.57					
3/3/2021	0.69		2	1.2	1.8	2.3	0.62
8/19/2021		0.71					
8/20/2021	0.72		2.5	1.2	2.3	2.5	0.66
2/8/2022				1.1	2.4	2.4	0.71
2/10/2022	0.79	0.79	2.5				

Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	0.0076 (J)						
9/23/2020		0.0066 (J)	0.021 (J)	0.006 (J)			
9/24/2020					0.0094 (J)	0.013 (J)	0.037 (J)
3/1/2021	0.013 (J)						
3/3/2021		0.01 (J)	<0.04	0.0094 (J)	<0.04		
3/4/2021						0.0079 (J)	0.033 (J)
8/19/2021	0.011 (J)						
8/26/2021				<0.04			0.095
8/27/2021		0.011 (J)	<0.04		<0.04		
9/1/2021						<0.04	
2/8/2022	0.015 (J)						0.13
2/9/2022		0.0098 (J)	<0.04	<0.04	<0.04	<0.04	

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Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.04	<0.04	<0.04	
7/26/2016		0.0047 (J)	0.0052 (J)	<0.04	
8/31/2016					0.0315 (J)
9/14/2016		<0.04	0.0071 (J)	0.01 (J)	
11/2/2016		<0.04	<0.04		
11/4/2016				<0.04	
11/28/2016					0.0095 (J)
1/12/2017			0.0076 (J)	<0.04	
1/13/2017		<0.04			
2/22/2017					<0.04
3/6/2017		<0.04			
3/7/2017			0.0089 (J)	<0.04	
5/1/2017		<0.04	0.0061 (J)		
5/2/2017				<0.04	
5/8/2017					0.0084 (J)
6/27/2017			0.0079 (J)	<0.04	
6/29/2017		<0.04			
7/17/2017					0.0092 (J)
10/3/2017			0.0094 (J)	<0.04	
10/5/2017		<0.04			
10/12/2017	0.0401				
10/16/2017					<0.04
11/20/2017	0.156				
1/10/2018	0.15				
2/19/2018	0.146				<0.04
4/3/2018	0.12				
6/6/2018			0.0098 (J)		
6/7/2018		0.0045 (J)		<0.04	
6/28/2018	0.16				
8/6/2018					<0.04
8/7/2018	0.12				
9/24/2018	0.099				
9/26/2018		0.005 (J)	0.01 (J)	0.0057 (J)	
2/25/2019					<0.04
3/26/2019	0.096				
4/3/2019		0.0055 (J)	0.0076 (J)	0.0044 (J)	
6/12/2019					<0.04
9/24/2019			0.01 (J)	0.0049 (J)	
9/25/2019		<0.04			
10/8/2019					<0.04
10/9/2019	0.079				
3/17/2020					0.0051 (J)
3/24/2020	0.088 (J)		0.011 (J)	0.0068 (J)	
3/25/2020		0.011 (J)			
9/22/2020		<0.04	0.0079 (J)	0.0053 (J)	0.0079 (J)
9/24/2020	0.087 (J)				
3/2/2021			0.0068 (J)	0.011 (J)	<0.04
3/3/2021		0.0056 (J)			
3/4/2021	0.078				
8/20/2021					<0.04
8/26/2021		<0.04	0.009 (J)	<0.04	
9/3/2021	0.077				

Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	0.074				<0.04
2/10/2022			0.011 (J)	<0.04	
2/11/2022		<0.04			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0005	<0.0005				<0.0005
6/2/2016	<0.0005				<0.0005	<0.0005	
7/25/2016			<0.0005		<0.0005		<0.0005
7/26/2016	<0.0005	<0.0005				<0.0005	
9/13/2016		<0.0005	<0.0005				
9/14/2016				<0.0005			<0.0005
9/15/2016	<0.0005					<0.0005	
9/19/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	<0.0005
11/2/2016	<0.0005						
11/4/2016			<0.0005	<0.0005			
12/15/2016				<0.0005			
1/10/2017	<0.0005						
1/11/2017		0.0002 (J)				0.0001 (J)	8E-05 (J)
1/16/2017			<0.0005	<0.0005	<0.0005		
2/21/2017					<0.0005		
3/1/2017							<0.0005
3/2/2017		<0.0005	<0.0005			<0.0005	
3/3/2017				<0.0005			
3/8/2017	7E-05 (J)						
4/26/2017	<0.0005				<0.0005	<0.0005	<0.0005
4/27/2017		<0.0005	<0.0005				
4/28/2017				<0.0005			
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0005				
6/28/2017				<0.0005		<0.0005	<0.0005
6/30/2017	<0.0005				<0.0005		
3/27/2018	<0.0005		<0.0005		<0.0005		
3/28/2018				<0.0005		<0.0005	<0.0005
3/29/2018		<0.0005					
2/26/2019	<0.0005				<0.0005		
2/27/2019		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005				
3/29/2019	<0.0005			<0.0005			
4/1/2019					<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005	<0.0005	<0.0005			
9/25/2019	<0.0005				<0.0005	<0.0005	<0.0005
2/10/2020		<0.0005	<0.0005				
2/11/2020				<0.0005			<0.0005
2/12/2020	<0.0005				<0.0005	<0.0005	
3/18/2020	<0.0005		<0.0005				
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
9/24/2020					<0.0005		
9/25/2020	<0.0005						
2/10/2021	<0.0005			<0.0005		<0.0005	<0.0005
2/11/2021					<0.0005		
2/12/2021		<0.0005	<0.0005				
3/1/2021					<0.0005		
3/2/2021	<0.0005						
3/3/2021		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2021	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
2/10/2022	<0.0005						
2/11/2022				<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					0.00055 (J)	<0.0005	<0.0005
8/1/2016	<0.0005	<0.0005	<0.0005	<0.0005			
8/2/2016					0.0001 (J)	<0.0005	0.0001 (J)
9/20/2016	<0.0005	<0.0005	<0.0005	<0.0005			
9/21/2016					0.0001 (J)	<0.0005	0.0002 (J)
11/7/2016	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	0.0002 (J)
11/8/2016					9E-05 (J)		
1/18/2017	<0.0005	<0.0005	<0.0005		9E-05 (J)	<0.0005	
1/19/2017				<0.0005			0.0001 (J)
2/21/2017	<0.0005	<0.0005				<0.0005	
2/22/2017				<0.0005	0.0001 (J)		0.0001 (J)
2/23/2017			<0.0005				
5/3/2017		<0.0005					
5/5/2017					9E-05 (J)	<0.0005	
5/8/2017	<0.0005		<0.0005	<0.0005			0.0002 (J)
6/30/2017			<0.0005	<0.0005			
7/5/2017					0.0002 (J)		0.0002 (J)
7/7/2017						<0.0005	
7/10/2017	<0.0005	<0.0005					
3/29/2018			<0.0005	<0.0005			<0.0005
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
2/27/2019	<0.0005	<0.0005	<0.0005	<0.0005	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019			<0.0005	<0.0005	0.00043 (J)		0.00022 (J)
4/2/2019	<0.0005	<0.0005				<0.0005	
9/25/2019	<0.0005	<0.0005					0.00024 (J)
9/26/2019			<0.0005	<0.0005	<0.0005	<0.0005	
2/13/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020		<0.0005			0.00016 (J)	<0.0005	
3/20/2020	<0.0005		<0.0005	<0.0005			0.00022 (J)
9/24/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00027 (J)	<0.0005	0.00033 (J)
2/10/2021	<0.0005	<0.0005	<0.0005	<0.0005			
2/11/2021					0.00052 (J)		
2/12/2021						0.00048 (J)	<0.0005
3/2/2021		<0.0005					
3/3/2021	<0.0005		<0.0005	<0.0005	0.00014 (J)	<0.0005	0.00029 (J)
8/19/2021		<0.0005					
8/20/2021	<0.0005		<0.0005	<0.0005	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022				<0.0005	0.00033 (J)	<0.0005	0.00019 (J)
2/10/2022	<0.0005	<0.0005	<0.0005				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0005	<0.0005			
6/7/2016		<0.0005			<0.0005	<0.0005	
7/27/2016		<0.0005	<0.0005	<0.0005	<0.0005		
7/28/2016						<0.0005	
8/30/2016	0.0001 (J)						
9/16/2016		<0.0005		<0.0005			
9/19/2016			<0.0005		<0.0005	<0.0005	
11/2/2016					<0.0005		
11/3/2016		<0.0005	<0.0005	<0.0005		<0.0005	
11/14/2016	0.0001 (J)						
1/11/2017		0.0001 (J)	<0.0005	0.0001 (J)			
1/13/2017					<0.0005	<0.0005	
2/24/2017	9E-05 (J)						
3/1/2017			<0.0005	<0.0005			
3/2/2017		<0.0005					
3/6/2017					<0.0005	<0.0005	
4/26/2017			<0.0005	<0.0005	<0.0005	<0.0005	
5/2/2017		<0.0005					
5/8/2017	0.0001 (J)						
6/28/2017			<0.0005	<0.0005			
6/29/2017		<0.0005			<0.0005	<0.0005	
7/11/2017	<0.0005						
10/10/2017	<0.0005						
10/11/2017							<0.0005
11/20/2017							<0.0005
1/11/2018							<0.0005
2/20/2018							<0.0005
3/28/2018		<0.0005	<0.0005	<0.0005			
3/29/2018					<0.0005	<0.0005	
4/2/2018	<0.0005						
4/3/2018							<0.0005
6/5/2018						<0.0005	
6/6/2018					<0.0005		
6/7/2018			<0.0005				
6/11/2018		<0.0005		<0.0005			
6/28/2018							<0.0005
8/7/2018							<0.0005
9/19/2018	<0.0005						
9/24/2018							<0.0005
9/25/2018		<0.0005	<0.0005	<0.0005	<0.0005	9.6E-05 (J)	
3/5/2019		<0.0005		<0.0005	<0.0005	<0.0005	
3/6/2019			<0.0005				
4/2/2019		<0.0005				<0.0005	
4/3/2019			<0.0005	<0.0005	<0.0005		
8/20/2019	<0.0005						
8/21/2019							<0.0005
9/24/2019						<0.0005	
9/25/2019		<0.0005			<0.0005		
9/26/2019			<0.0005	<0.0005			
10/8/2019	<0.0005						
10/9/2019							<0.0005
2/11/2020		<0.0005	<0.0005	<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005						
3/24/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/25/2020							<0.0005
8/27/2020	<0.0005						
9/23/2020		<0.0005	<0.0005	<0.0005			
9/24/2020					<0.0005	<0.0005	<0.0005
2/9/2021			<0.0005	<0.0005	<0.0005	0.00041 (J)	
2/10/2021							0.00019 (J)
3/3/2021		<0.0005	<0.0005	<0.0005	<0.0005		
3/4/2021						<0.0005	0.0003 (J)
8/19/2021	<0.0005						
8/26/2021				<0.0005			0.00049 (J)
8/27/2021		<0.0005	<0.0005		<0.0005		
9/1/2021						<0.0005	
2/8/2022	<0.0005						0.00063
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.0005	<0.0005	<0.0005	
7/26/2016		<0.0005	<0.0005	<0.0005	
8/31/2016					<0.0005
9/14/2016		<0.0005	<0.0005	<0.0005	
11/2/2016		<0.0005	<0.0005		
11/4/2016				<0.0005	
11/28/2016					<0.0005
1/12/2017			<0.0005	9E-05 (J)	
1/13/2017		<0.0005			
2/22/2017					<0.0005
3/6/2017		<0.0005			
3/7/2017			<0.0005	<0.0005	
5/1/2017		<0.0005	<0.0005		
5/2/2017				<0.0005	
5/8/2017					<0.0005
6/27/2017			<0.0005	<0.0005	
6/29/2017		<0.0005			
7/17/2017					<0.0005
10/12/2017	<0.0005				
10/16/2017					<0.0005
11/20/2017	<0.0005				
1/10/2018	<0.0005				
2/19/2018	<0.0005				<0.0005
3/29/2018		<0.0005	<0.0005	<0.0005	
4/3/2018	<0.0005				
6/6/2018			<0.0005		
6/7/2018		<0.0005		<0.0005	
6/28/2018	<0.0005				
8/6/2018					<0.0005
8/7/2018	<0.0005				
9/24/2018	<0.0005				
9/26/2018		<0.0005	<0.0005	<0.0005	
2/25/2019					<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.0005	<0.0005	<0.0005	
4/3/2019		<0.0005	<0.0005	<0.0005	
6/12/2019					<0.0005
8/19/2019					<0.0005
8/21/2019	<0.0005				
9/24/2019			<0.0005	<0.0005	
9/25/2019		<0.0005			
10/8/2019					<0.0005
10/9/2019	<0.0005				
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	
3/17/2020					<0.0005
3/24/2020	<0.0005		<0.0005	<0.0005	
3/25/2020		<0.0005			
8/26/2020					<0.0005
9/22/2020		<0.0005	<0.0005	<0.0005	<0.0005
9/24/2020	<0.0005				
2/8/2021			<0.0005	<0.0005	
2/9/2021		<0.0005			
2/10/2021	<0.0005				
3/2/2021			<0.0005	<0.0005	<0.0005
3/3/2021		<0.0005			
3/4/2021	<0.0005				
8/20/2021					<0.0005
8/26/2021		<0.0005	<0.0005	<0.0005	
9/3/2021	<0.0005				
2/8/2022	<0.0005				<0.0005
2/10/2022			<0.0005	<0.0005	
2/11/2022		<0.0005			

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		12	2.5				21
6/2/2016	1.3				1.3	28	
7/25/2016			2.16		1.17		20.3
7/26/2016	1.24	11				24.5	
9/13/2016		11.8	2.21				
9/14/2016				23.5			19.7
9/15/2016	1.17					27	
9/19/2016					1.05		
11/1/2016		11			1.14	25.6	18.4
11/2/2016	1.23						
11/4/2016			2.67	23.7			
12/15/2016				23.1			
1/10/2017	1.24						
1/11/2017		11.2				27.5	20.3
1/16/2017			2.45	23.3	1.23		
2/21/2017					1.25		
3/1/2017							18.6
3/2/2017		11	2.57			27.5	
3/3/2017				25.1			
3/8/2017	1.21						
4/26/2017	1.14				1.03	30.4	25.6
4/27/2017		11.1	2.38				
4/28/2017				30.7			
5/26/2017				26.2			
6/27/2017		13.8	2.36				
6/28/2017				26.1		29.8	23.9
6/30/2017	1.24				1.13		
10/3/2017		14	2.21	26.7			
10/4/2017					1.09	29.7	22.1
10/5/2017	1.11						
6/5/2018		15.2 (J)					
6/6/2018			2.3				
6/7/2018				25		29.1	
6/8/2018	1.1						21.9 (J)
6/11/2018					1.1		
10/1/2018	0.99	15.1	1.8	25		26.9	19.7
10/2/2018					1.1		
3/28/2019		13.3 (J)	2.2				
3/29/2019	1.1			23.5 (J)			
4/1/2019					1.3	30.1	20.4 (J)
9/24/2019		15.8	2.3	26.4			
9/25/2019	1.1				1.1	29.5	22.4
3/18/2020	1.1		2.1				
3/19/2020		15		27.4	1.2	31.5	21.9
9/23/2020		14.1	1.8	26.3		28.6	23.6
9/24/2020					1.1		
9/25/2020	1.3						
3/1/2021					1.2		
3/2/2021	1.2						
3/3/2021		14.1	1.8	25.6		29.8	20.6
8/19/2021	1.2	14.2	2		1.2	28.1	
8/27/2021				22.6			24.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		14.9	2.1	23.4		30.3	23.7
2/10/2022	1.3						
2/11/2022					1.5		

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	15	13	25	44			
6/9/2016					36	26	12
8/1/2016	14.5	12.2	21.4	36.3			
8/2/2016					35.5	25.8	11.7
9/20/2016	15.3	12.2	26.3	39.5			
9/21/2016					33.2	24.9	11.1
11/7/2016	13.8	12.1	26.1	34.9		25.1	11.4
11/8/2016					33.8		
1/18/2017	15.1	11.5	25.6		33.4	26.1	
1/19/2017				37			12
2/21/2017	14.6	11.7				29	
2/22/2017				37.6	33.8		11.2
2/23/2017			28.2				
5/3/2017		11.9					
5/5/2017					33.5	28.1	
5/8/2017	15.2		27.2	35.7			11.2
6/30/2017			27.2	36.2			
7/5/2017					33.4		11.9
7/7/2017						28.6	
7/10/2017	17.4	12.7					
10/5/2017					36.4		12
10/6/2017				39.8			
10/9/2017			27.3			27.3	
10/10/2017	15.5	11.4					
6/11/2018							12.1
6/12/2018				36.2	33.4	26.4	
6/13/2018	15.5	12.5	29.4				
10/2/2018	14.7	12.4 (J)	29.2	39.1			11.7 (J)
10/3/2018					32.6	25.8	
4/1/2019			27.4	38	33.8		11.9 (J)
4/2/2019	16.1 (J)	11.9 (J)				25.7	
9/25/2019	15.6	11.6					10.7
9/26/2019			24.2	37.5	32	26.1	
3/19/2020		13			37.3	30.4	
3/20/2020	17.1		30.3	42.1			12.7
9/24/2020	16.9	11.3	27.9	38.6	34.3	30.8	12.4
3/2/2021		12.9					
3/3/2021	16.1		25.7	30.2	30.9	28.4	9.5
8/19/2021		11.5					
8/20/2021	17.2		25.7	29.9	33.1	27.8	10.2
2/8/2022				27.2	31.8	26.7	9.3
2/10/2022	16.4	11.6	27.4				

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			6.2	1.4			
6/7/2016		2.2			2.3	3.7	
7/27/2016		2	4.73	1.19	2.08		
7/28/2016						3.15	
8/30/2016	20.9						
9/16/2016		1.97		1.5			
9/19/2016			4.76		1.97	3.17	
11/2/2016					2.13		
11/3/2016		1.99	5.25	1.31		3.4	
11/14/2016	18.6						
1/11/2017		2.28	4.74	1.25			
1/13/2017					2.45	4.98	
2/24/2017	16.1						
3/1/2017			5.37	1.26			
3/2/2017		2.15					
3/6/2017					2.48	6.28	
4/26/2017			4.28	1.05	2.3	6.65	
5/2/2017		1.95					
5/8/2017	14.6						
6/28/2017			4.95	1.06			
6/29/2017		2.02			2.54	6.04	
7/11/2017	14.3						
10/3/2017						8.28	
10/4/2017		2.03		1.1	2.25		
10/5/2017			5.28				
10/10/2017	12.1						
10/11/2017							2.74
11/20/2017							1.81
1/11/2018							1.54
2/20/2018							1.71
4/2/2018	<25						
4/3/2018							1.4
6/5/2018						9.1	
6/6/2018					2.3		
6/7/2018			4.8				
6/11/2018		2.1		1.4			
6/28/2018							1.4
8/7/2018							1.2
9/19/2018	11.1 (J)						
9/24/2018							1.1
9/25/2018		2.1	4.6	1	2.3	10.4 (J)	
3/27/2019	10.8 (J)						1.5
4/2/2019		2.5				8.8	
4/3/2019			5.3	1.2	2.9		
9/24/2019						7.7	
9/25/2019		2.6			2.4		
9/26/2019			4.9	1.1			
10/8/2019	9.7						
10/9/2019							2.4
3/17/2020	14.8						
3/24/2020		2.7	5.3	1	2.6	6	
3/25/2020							2.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	10.1						
9/23/2020		2.6	5.2	0.91 (J)			
9/24/2020					2.6	7.8	3.7
3/1/2021	10.3						
3/3/2021		2.5	5.2	0.96 (J)	2.4		
3/4/2021						8.7	8.2
8/19/2021	9.6						
8/26/2021				0.98 (J)			14.1
8/27/2021		2.7	5.1		2.4		
9/1/2021						9.5	
2/8/2022	9.4						15.2
2/9/2022		2.8	5.1	0.87 (J)	2.3	9.8	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		8.8	33	2.4	
7/26/2016		7.69	32.3	2.12	
8/31/2016					9.31
9/14/2016		8.49	31	2.18	
11/2/2016		7.83	30.9		
11/4/2016				2.17 (J)	
11/28/2016					9.47 (B)
1/12/2017			35.7	2.37	
1/13/2017		8.08			
2/22/2017					10.4
3/6/2017		8.64			
3/7/2017			32.7	2.34	
5/1/2017		13.4	37		
5/2/2017				2.17	
5/8/2017					14.2
6/27/2017			36.5	2.13	
6/29/2017		8.81			
7/17/2017					14.1
10/3/2017			30.9	2.15	
10/5/2017		9.29			
10/12/2017	2.9				
10/16/2017					13.6
11/20/2017	10.4				
1/10/2018	10.2				
2/19/2018	<25				<25
4/3/2018	6.3				
6/6/2018			26.2		
6/7/2018		8.2		2.3	
6/28/2018	6.7				
8/6/2018					11.4 (J)
8/7/2018	6.3				
9/24/2018	5.7				
9/26/2018		9.5 (J)	25.8	2.3	
2/25/2019					12.7 (J)
3/26/2019	5.6				
4/3/2019		8.4	24.7 (J)	2.8	
6/12/2019					18.9
9/24/2019			25.8	2.5	
9/25/2019		9.5			
10/8/2019					28.3
10/9/2019	4.9				
3/17/2020					24.3
3/24/2020	4.8		26.1	2.5	
3/25/2020		10.5			
9/22/2020		9.6	27.2	2.6	31
9/24/2020	4.4				
3/2/2021			1.6	2.6	34.2
3/3/2021		7.7			
3/4/2021	4.6				
8/20/2021					26.5
8/26/2021		7.6	25.2	2.5	
9/3/2021	5.6				

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	6				25.6
2/10/2022			24.8	2.5	
2/11/2022		7.5			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		1.3	1.6				1.3
6/2/2016	4.1				1.9	1.4	
7/25/2016			1.4		1.7		1.3
7/26/2016	4	1.2				1.6	
9/13/2016		1.1	1.3				
9/14/2016				1.1			1.3
9/15/2016	4.2					1.5	
9/19/2016					1.6		
11/1/2016		1.3			1.8	1.7	1.4
11/2/2016	4.9						
11/4/2016			1.6	1.4			
12/15/2016				2.9			
1/10/2017	4.1						
1/11/2017		1.1				1.2	1.1
1/16/2017			1.4	0.98	1.7		
2/21/2017					1.7		
3/1/2017							1.1
3/2/2017		1	1.3			1.2	
3/3/2017				1.1			
3/8/2017	4.2						
4/26/2017	4.1				1.7	1.2	1.1
4/27/2017		1	1.3				
4/28/2017				0.91			
5/26/2017				0.93			
6/27/2017		1.1	1.4				
6/28/2017				1		1.3	1.2
6/30/2017	3.7				1.8		
10/3/2017		1.1	1.7	1.2			
10/4/2017					1.8	1.5	1.2
10/5/2017	3.8						
6/5/2018		1.1					
6/6/2018			1.4				
6/7/2018				1		1.2	
6/8/2018	3.4						1.2
6/11/2018					2		
10/1/2018	3.8	1.1	1.4	1.1		1.5	1.2
10/2/2018					1.8		
3/28/2019		1.4	1.5				
3/29/2019	4.2			1.2			
4/1/2019					1.7	1.2	1.1
9/24/2019		1.1	1.3	0.95 (J)			
9/25/2019	4.8				1.6	1.1	1.1
3/18/2020	5.2		1.4				
3/19/2020		1.1		0.97 (J)	1.8	1.2	1.1
9/23/2020		0.99 (J)	1.2	0.88 (J)		1.1	1
9/24/2020					1.5		
9/25/2020	5.3						
3/1/2021					1.6		
3/2/2021	4.9						
3/3/2021		0.96 (J)	1.2	0.86 (J)		1.1	0.99 (J)
8/19/2021	5	1.1	1.3		1.6	1.1	
8/27/2021				0.99 (J)			1.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		1	1.3	1 (J)		1.1	1.1
2/10/2022	4.7						
2/11/2022				2.1			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	19	18	14	22			
6/9/2016					18	19	15
8/1/2016	17	16	13	21			
8/2/2016					18	18	14
9/20/2016	18	18	13	22			
9/21/2016					18	19	14
11/7/2016	17	16	14	24		20	14
11/8/2016					18		
1/18/2017	19	17	14		18	20	
1/19/2017				22			14
2/21/2017	18	16				19	
2/22/2017				21	18		13
2/23/2017			14				
5/3/2017		17					
5/5/2017					19	21	
5/8/2017	18		14	22			15
6/30/2017			14	21			
7/5/2017					18		14
7/7/2017						20	
7/10/2017	19	15					
10/5/2017					19		15
10/6/2017				21			
10/9/2017			14			20	
10/10/2017	19	15					
6/11/2018							13.6
6/12/2018				19.8	17.6	19.3	
6/13/2018	18.1	14.2	13.1				
10/2/2018	18.3	14	13.8	19.9			13.4
10/3/2018					17.7	20.2	
4/1/2019			14.2	19.7	17.2		13.1
4/2/2019	17.9	13.5				19.5	
9/25/2019	17.1	14.4					11.3
9/26/2019			14.3	19.6	17.3	19.5	
3/19/2020		15.4			16	18.1	
3/20/2020	17.7		13	17.7			11.3
9/24/2020	17.1	15.7	13.3	17	15.1	18	10.9
3/2/2021		13.2					
3/3/2021	16.6		13	4	14.6	18	6.7
8/19/2021		13.5					
8/20/2021	14.4		13.7	15.2	15.2	18.1	6.8
2/8/2022				13	15.2	18.3	5.5
2/10/2022	15.4	14	13.1				

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			6.8	6.4			
6/7/2016		4.5			1.9	2.8	
7/27/2016		4.5	6.7	6.2	1.9		
7/28/2016						2.6	
8/30/2016	5.2						
9/16/2016		4.5		6.1			
9/19/2016			7		1.9	2.4	
11/2/2016					2.6		
11/3/2016		5.4	7.5	7.4		2.9	
11/14/2016	6.4						
1/11/2017		4.7	6.5	6.1			
1/13/2017					2.3	2.5	
2/24/2017	5.5						
3/1/2017			6.9	6			
3/2/2017		4.8					
3/6/2017					1.9	2.1	
4/26/2017			7	6.5	2	2.1	
5/2/2017		4.6					
5/8/2017	5.8						
6/28/2017			7	6.4			
6/29/2017		4.5			2.6	2.8	
7/11/2017	5.8						
10/3/2017						2.2	
10/4/2017		4.7		6.8	2.6		
10/5/2017			7				
10/10/2017	5.9						
10/11/2017							2.4
11/20/2017							1.8
1/11/2018							1.6
2/20/2018							2
4/2/2018	4.8						
4/3/2018							3.3
6/5/2018						1.7	
6/6/2018					2.7		
6/7/2018			6.8				
6/11/2018		4.9		6.8			
6/28/2018							2.1
8/7/2018							1.2
9/19/2018	4						
9/24/2018							1.3
9/25/2018		5.6	7.9	7.8	3.6	2.2	
3/27/2019	4.3						1.4
4/2/2019		4.8				2.5	
4/3/2019			6.9	6.3	3.1		
9/24/2019						3.1	
9/25/2019		5.7			2.8		
9/26/2019			7	7.1			
10/8/2019	4.4						
10/9/2019							2.1
3/17/2020	4.1						
3/24/2020		5	7	6.8	2.7	2.8	
3/25/2020							1.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	4.2						
9/23/2020		6.6	7.2	7.2			
9/24/2020					2.7	2	2.7
3/1/2021	3.7						
3/3/2021		7.1	7	7.2	2.7		
3/4/2021						1.8	4.9
8/19/2021	3.5						
8/26/2021				7.3			7.2
8/27/2021		8.5	7.4		2.8		
9/1/2021						1.8	
2/8/2022	3.2						7.4
2/9/2022		10.9	7.5	7	2.8	1.7	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		3.7	7.2	4.3	
7/26/2016		3.6	6.6	4.4	
8/31/2016					4
9/14/2016		3.4	6.6	3.8	
11/2/2016		4.5	7.6		
11/4/2016				4.8	
11/28/2016					4.2
1/12/2017			6.8	3.8	
1/13/2017		4.2			
2/22/2017					3.7
3/6/2017		3.6			
3/7/2017			6.8	4.5	
5/1/2017		4.3	7.2		
5/2/2017				4.6	
5/8/2017					4.2
6/27/2017			7	4.3	
6/29/2017		4.2			
7/17/2017					3.8
10/3/2017			6.5	4.2	
10/5/2017		4.7			
10/12/2017	3.8				
10/16/2017					4.2
11/20/2017	4.4				
1/10/2018	4.6				
2/19/2018	4.6				4.3
4/3/2018	5.9				
6/6/2018			4.7		
6/7/2018		4.4		4.5	
6/28/2018	5				
8/6/2018					3.8
8/7/2018	4.3				
9/24/2018	4.9				
9/26/2018		4.8	4.8	5.1	
2/25/2019					4.1
3/26/2019	4.4				
4/3/2019		4.3	4	4.2	
6/12/2019					4.7
9/24/2019			3.7	4.5	
9/25/2019		4.5			
10/8/2019					5.1
10/9/2019	5.1				
3/17/2020					4.8
3/24/2020	4.7		3.5	4.3	
3/25/2020		3.9			
9/22/2020		4.5	3.6	4.2	4.2
9/24/2020	5				
3/2/2021			3.2	4.3	4.1
3/3/2021		4.1			
3/4/2021	4.9				
8/20/2021					5.2
8/26/2021		4.4	3.4	4.3	
9/3/2021	5.5				

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	6.2				5.7
2/10/2022			3.2	4.4	
2/11/2022		4.1			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0035	<0.005				<0.005
6/2/2016	<0.005				<0.005	0.0013 (J)	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0009 (J)	0.0004 (J)			0.0006 (J)	
3/3/2017				0.0005 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				0.0016 (J)	<0.005	<0.005
4/27/2017		<0.005	<0.005				
4/28/2017				0.0004 (J)			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
2/26/2019	<0.005				<0.005		
2/27/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.0021 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.00072 (J)	0.0028 (J)	<0.005			
9/25/2019	<0.005				<0.005	0.0014 (J)	0.0019 (J)
2/10/2020		0.00042 (J)	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		0.00044 (J)				
3/19/2020		0.00084 (J)		0.00048 (J)	<0.005	<0.005	<0.005
9/23/2020		0.00062 (J)	0.00058 (J)	<0.005		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<0.005	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022				<0.005			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	0.003 (J)				<0.005	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.005
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/19/2021		0.0012 (J)					
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0012 (J)	<0.005			
6/7/2016		<0.005			<0.005	<0.005	
7/27/2016		0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)		
7/28/2016						<0.005	
8/30/2016	<0.005						
9/16/2016		<0.005		<0.005			
9/19/2016			<0.005		<0.005	<0.005	
11/2/2016					<0.005		
11/3/2016		<0.005	<0.005	<0.005		<0.005	
11/14/2016	0.0093 (J)						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	<0.005						
3/1/2017			0.0012 (J)	<0.005			
3/2/2017		0.001 (J)					
3/6/2017					<0.005	<0.005	
4/26/2017			0.0005 (J)	0.0003 (J)	0.0007 (J)	<0.005	
5/2/2017		0.0007 (J)					
5/8/2017	<0.005						
6/28/2017			0.0006 (J)	<0.005			
6/29/2017		0.0006 (J)			0.0005 (J)	<0.005	
7/11/2017	<0.005						
10/10/2017	<0.005						
10/11/2017							<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	<0.005			
3/29/2018					<0.005	<0.005	
4/2/2018	<0.005						
4/3/2018							<0.005
6/28/2018							<0.005
8/7/2018							<0.005
9/19/2018	<0.005						
9/24/2018							<0.005
3/5/2019		<0.005		<0.005	<0.005	<0.005	
3/6/2019			<0.005				
8/20/2019	<0.005						
8/21/2019							<0.005
10/9/2019							<0.005
2/11/2020		0.00087 (J)	0.001 (J)	0.00088 (J)			
2/12/2020					0.00045 (J)	<0.005	<0.005
3/24/2020		0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)	<0.005	
3/25/2020							<0.005
8/27/2020	<0.005						
9/22/2020	<0.005						
9/23/2020		0.00098 (J)	0.00092 (J)	0.0012 (J)			
9/24/2020					0.00076 (J)	<0.005	<0.005
2/9/2021			0.00083 (J)	0.0013 (J)	0.00056 (J)	<0.005	
2/10/2021							<0.005
3/1/2021	<0.005						
3/3/2021		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005		

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Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/4/2021						<0.005	<0.005
8/19/2021	<0.005						
8/26/2021				<0.005			<0.005
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						<0.005	
2/8/2022	<0.005						<0.005
2/9/2022		<0.005	<0.005	0.0014 (J)	<0.005	<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.005	<0.005	<0.005	
7/26/2016		<0.005	<0.005	<0.005	
8/31/2016					<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<0.005
3/6/2017		<0.005			
3/7/2017			<0.005	<0.005	
5/1/2017		<0.005	0.0004 (J)		
5/2/2017				<0.005	
5/8/2017					<0.005
6/27/2017			<0.005	<0.005	
6/29/2017		<0.005			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017					<0.005
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<0.005	
4/3/2018	<0.005				
6/28/2018	<0.005				
8/6/2018					<0.005
8/7/2018	<0.005				
9/24/2018	<0.005				
2/25/2019					<0.005
3/4/2019		<0.005	<0.005	<0.005	
6/12/2019					<0.005
8/19/2019					<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	0.00053 (J)				
10/8/2019					<0.005
10/9/2019	0.0012 (J)				
2/12/2020	0.00065 (J)	<0.005	<0.005	0.00043 (J)	
3/17/2020					<0.005
3/24/2020	0.00055 (J)		<0.005	0.0014 (J)	
3/25/2020		0.00058 (J)			
8/26/2020					<0.005
9/22/2020		<0.005	0.0011 (J)	<0.005	<0.005
9/24/2020	<0.005				
2/8/2021			<0.005	<0.005	
2/9/2021		<0.005			
2/10/2021	<0.005				
3/2/2021			<0.005	<0.005	<0.005
3/3/2021		0.0013 (J)			
3/4/2021	<0.005				
8/20/2021					<0.005
8/26/2021		<0.005	<0.005	<0.005	
9/3/2021	<0.005				
2/8/2022	<0.005				<0.005
2/10/2022			<0.005	<0.005	
2/11/2022		<0.005			

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Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	0.00082 (J)				<0.005
6/2/2016	<0.005				0.035	<0.005	
7/25/2016			0.0008 (J)		0.0312		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	0.0009 (J)				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					0.0275		
11/1/2016		<0.005			0.0255	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			0.0025 (J)	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			0.0027 (J)	<0.005	0.0245		
2/21/2017					0.0272		
3/1/2017							<0.005
3/2/2017		<0.005	0.0022 (J)			<0.005	
3/3/2017				<0.005			
3/8/2017	<0.005						
4/26/2017	<0.005				0.0244	<0.005	<0.005
4/27/2017		<0.005	0.0018 (J)				
4/28/2017				<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	0.0023 (J)				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				0.0233		
3/27/2018	<0.005		<0.005		0.023		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
6/5/2018		<0.005					
6/6/2018			<0.005				
6/7/2018				<0.005		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					0.023		
10/1/2018	<0.005	<0.005	0.00059 (J)	<0.005		<0.005	<0.005
10/2/2018					0.022		
2/26/2019	<0.005				0.021		
2/27/2019		<0.005	0.00064 (J)	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.00091 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					0.022	<0.005	<0.005
9/24/2019		<0.005	0.0013 (J)	<0.005			
9/25/2019	<0.005				0.016	<0.005	<0.005
2/10/2020		<0.005	0.0016 (J)				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				0.014	<0.005	
3/18/2020	<0.005		0.00087 (J)				
3/19/2020		<0.005		<0.005	0.014	<0.005	<0.005
9/23/2020		<0.005	0.0013 (J)	<0.005		<0.005	<0.005
9/24/2020					0.0064		
9/25/2020	<0.005						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					0.0078		
2/12/2021		0.00086 (J)	0.0028 (J)				
3/1/2021					0.0061		
3/2/2021	<0.005						
3/3/2021		<0.005	0.003 (J)	<0.005		<0.005	<0.005
8/19/2021	<0.005	0.00055 (J)	0.0017 (J)		0.0052	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.00072 (J)	0.0023 (J)	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022					0.0038 (J)		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016					0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	<0.005	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016					<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	<0.005	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016					<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	<0.005	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017				0.0024 (J)			<0.005
2/21/2017	<0.005	0.0022 (J)				0.0011 (J)	
2/22/2017				0.0023 (J)	<0.005		<0.005
2/23/2017			0.002 (J)				
5/3/2017		0.002 (J)					
5/5/2017					<0.005	0.0012 (J)	
5/8/2017	<0.005		0.0029 (J)	0.0023 (J)			<0.005
6/30/2017			0.0044 (J)	0.0022 (J)			
7/5/2017					<0.005		0.0003 (J)
7/7/2017						0.0012 (J)	
7/10/2017	<0.005	0.002 (J)					
3/29/2018			0.0495 (D)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
6/11/2018							<0.005
6/12/2018				0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	<0.005	0.0017 (J)	0.092				
10/2/2018	<0.005	0.002 (J)	0.078	0.0023 (J)			<0.005
10/3/2018					<0.005	0.0013 (J)	
2/27/2019	<0.005	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005
4/1/2019			0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	<0.005	0.0022 (J)				0.0011 (J)	
9/25/2019	<0.005	0.0033 (J)					<0.005
9/26/2019			0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	<0.005	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005
3/19/2020		0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020	<0.005		0.014	0.0022 (J)			<0.005
9/24/2020	<0.005	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005
2/10/2021	<0.005	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	0.00094 (J)
3/2/2021		0.0021 (J)					
3/3/2021	<0.005		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005
8/19/2021		0.0017 (J)					
8/20/2021	<0.005		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005
2/8/2022				0.0017 (J)	<0.005	0.00091 (J)	<0.005
2/10/2022	<0.005	0.0026 (J)	0.0051				

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Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	0.00061 (J)			
6/7/2016		<0.005			<0.005	0.0056	
7/27/2016		<0.005	<0.005	0.0004 (J)	<0.005		
7/28/2016						0.0032 (J)	
8/30/2016	0.0073 (J)						
9/16/2016		<0.005		0.0008 (J)			
9/19/2016			<0.005		<0.005	0.0047 (J)	
11/2/2016					<0.005		
11/3/2016		<0.005	<0.005	<0.005		0.013	
11/14/2016	0.0115						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	0.011	
2/24/2017	0.0106						
3/1/2017			<0.005	<0.005			
3/2/2017		<0.005					
3/6/2017					<0.005	0.011	
4/26/2017			<0.005	<0.005	<0.005	0.009 (J)	
5/2/2017		<0.005					
5/8/2017	0.0099 (J)						
6/28/2017			<0.005	<0.005			
6/29/2017		<0.005			<0.005	0.0093 (J)	
7/11/2017	0.0096 (J)						
10/10/2017	0.0036 (J)						
10/11/2017							<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	<0.005			
3/29/2018					<0.005	<0.005	
4/2/2018	<0.005						
4/3/2018							<0.005
6/5/2018						0.0041 (J)	
6/6/2018					<0.005		
6/7/2018			<0.005				
6/11/2018		<0.005		<0.005			
6/28/2018							<0.005
8/7/2018							<0.005
9/19/2018	0.0036 (J)						
9/24/2018							<0.005
9/25/2018		<0.005	<0.005	<0.005	<0.005	0.0044 (J)	
3/5/2019		<0.005		<0.005	<0.005	0.0039 (J)	
3/6/2019			<0.005				
4/2/2019		<0.005				0.0039 (J)	
4/3/2019			<0.005	<0.005	<0.005		
8/20/2019	0.00092 (J)						
8/21/2019							0.00034 (J)
9/24/2019						0.0032 (J)	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/8/2019	0.0014 (J)						
10/9/2019							<0.005
2/11/2020		<0.005	<0.005	<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.005	0.0081	0.00034 (J)
3/17/2020	0.0017 (J)						
3/24/2020		<0.005	<0.005	<0.005	<0.005	0.0061	
3/25/2020							0.00034 (J)
8/27/2020	0.0011 (J)						
9/22/2020	0.00097 (J)						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	0.0079	0.00053 (J)
2/9/2021			<0.005	<0.005	<0.005	0.009	
2/10/2021							0.00098 (J)
3/1/2021	0.001 (J)						
3/3/2021		<0.005	<0.005	<0.005	<0.005		
3/4/2021						0.0065	0.00071 (J)
8/19/2021	0.00099 (J)						
8/26/2021				<0.005			0.0011 (J)
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						0.0068	
2/8/2022	0.0013 (J)						0.0012 (J)
2/9/2022		<0.005	<0.005	<0.005	<0.005	0.0078	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		0.00082 (J)	<0.005	<0.005	
7/26/2016		0.0012 (J)	<0.005	<0.005	
8/31/2016					0.0053 (J)
9/14/2016		0.0006 (J)	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					0.0036 (J)
1/12/2017			<0.005	<0.005	
1/13/2017		0.0029 (J)			
2/22/2017					0.0049 (J)
3/6/2017		0.0006 (J)			
3/7/2017			<0.005	<0.005	
5/1/2017		<0.005	<0.005		
5/2/2017				<0.005	
5/8/2017					0.0059 (J)
6/27/2017			<0.005	<0.005	
6/29/2017		0.0005 (J)			
7/17/2017					0.0046 (J)
10/12/2017	<0.005				
10/16/2017					0.0034 (J)
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<0.005	
4/3/2018	<0.005				
6/6/2018			<0.005		
6/7/2018		0.00058 (J)		<0.005	
6/28/2018	<0.005				
8/6/2018					0.003 (J)
8/7/2018	<0.005				
9/24/2018	<0.005				
9/26/2018		<0.005	<0.005	<0.005	
2/25/2019					0.001 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		0.00083 (J)	<0.005	<0.005	
6/12/2019					0.003 (J)
8/19/2019					0.0035 (J)
8/21/2019	<0.005				
9/24/2019			<0.005	<0.005	
9/25/2019		<0.005			
10/8/2019					0.0039 (J)
10/9/2019	<0.005				
2/12/2020	<0.005	<0.005	0.00037 (J)	<0.005	
3/17/2020					0.003 (J)
3/24/2020	<0.005		0.00035 (J)	<0.005	
3/25/2020		0.00056 (J)			
8/26/2020					0.2 (O)
9/22/2020		<0.005	<0.005	<0.005	0.16 (O)
9/24/2020	<0.005				
2/8/2021			<0.005	<0.005	
2/9/2021		<0.005			
2/10/2021	<0.005				
3/2/2021			<0.005	<0.005	0.21 (O)
3/3/2021		<0.005			
3/4/2021	<0.005				
8/20/2021					0.074 (O)
8/26/2021		0.00042 (J)	<0.005	<0.005	
9/3/2021	<0.005				
2/8/2022	<0.005				0.072 (O)
2/10/2022			<0.005	<0.005	
2/11/2022		<0.005			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.321 (U)	0.42				0.896
6/2/2016	0.329 (U)				0.0652 (U)	2.51	
7/25/2016			1.83		3.01		2.28
7/26/2016	1.51	0.707 (U)				3.82	
9/13/2016		1.22	0.841				
9/14/2016				0.98 (U)			0.821 (U)
9/15/2016	1.04 (U)					4.24	
9/19/2016					0.871 (U)		
11/1/2016		0.805 (U)			0.307 (U)	3.92	0.585 (U)
11/2/2016	0.496 (U)						
11/4/2016			0.166 (U)	0.277 (U)			
12/15/2016				0.071 (U)			
1/10/2017	0.376 (U)						
1/11/2017		0.705 (U)				2.52	1.22
1/16/2017			0	0.44 (U)	0.284 (U)		
2/21/2017					0.503 (U)		
3/1/2017							0.877 (U)
3/2/2017		0.251 (U)	0.504 (U)			3.13	
3/3/2017				0.448 (U)			
3/8/2017	0.0745 (U)						
4/26/2017	0.282 (U)				0.204 (U)	2.35	0.672 (U)
4/27/2017		1.08	0.593 (U)				
4/28/2017				0.548 (U)			
5/26/2017				0 (U)			
6/27/2017		1.02 (U)	0.657 (U)				
6/28/2017				0.608 (U)		2.6	1.07 (U)
6/30/2017	0.994				0.738 (U)		
3/27/2018	0.189 (U)		0.39 (U)		0.31 (U)		
3/28/2018				0.412 (U)		3	0.65 (U)
3/29/2018		0.503 (U)					
6/5/2018		0.771 (U)					
6/6/2018			2.8				
6/7/2018				0.73 (U)		2.79	
6/8/2018	0.218 (U)						1.89
6/11/2018					0.608 (U)		
10/1/2018	1.24	0.783 (U)	1.06 (U)	0.756 (U)		3.14	1.58
10/2/2018					0.97 (U)		
2/26/2019	0.202 (U)				0.524 (U)		
2/27/2019		1.21 (U)	0.637 (U)	0.635 (U)		3.79	3.67
3/28/2019		1.13 (U)	0.125 (U)				
3/29/2019	0 (U)			0.224 (U)			
4/1/2019					1.02 (U)	4.33	2.28
9/24/2019		1.22 (U)	0.949 (U)	0.429 (U)			
9/25/2019	0.707 (U)				1.02 (U)	4.2	1.6
2/10/2020		1.41	1.25 (U)				
2/11/2020				0.817 (U)		3.87	1.85
2/12/2020	1.07 (U)				0.301 (U)		
3/18/2020	0.207 (U)		0.458 (U)				
3/19/2020		1.1		0.715 (U)	1	3.96	2.2
9/23/2020		1.35 (U)	0.00884 (U)	0.565 (U)		4.14	1.14 (U)
9/24/2020					0.684 (U)		
9/25/2020	0.603 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	0.353 (U)			1.04 (U)		3.65	2.46
2/11/2021					0.678 (U)		
2/12/2021		0.366 (U)	0.458 (U)				
3/1/2021					0.412 (U)		
3/2/2021	0.71 (U)						
3/3/2021		0.492 (U)	0.105 (U)	0.459 (U)		3.58	2.03
8/19/2021	0.786 (U)	1.17 (U)	0.0732 (U)		0.234 (U)	3.53	
8/27/2021				0.409 (U)			1.34
2/9/2022		1.19	0.422 (U)	0.894 (U)		3.28	1.91
2/10/2022	0 (U)				0.268 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	0.523
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016					0.331 (U)	0.526 (U)	1.25
9/20/2016	0.565 (U)	0.555 (U)	3.12	1.27			
9/21/2016					0.335 (U)	0.176 (U)	1.21 (U)
11/7/2016	0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	1.16
11/8/2016					0.245 (U)		
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			0.933 (U)
2/21/2017	1.06 (U)	1.11 (U)				0.404 (U)	
2/22/2017				1.26 (U)	0.516 (U)		1.45 (U)
2/23/2017			4.73				
5/3/2017		0.654 (U)					
5/5/2017					0.713 (U)	0.868 (U)	
5/8/2017	0.291 (U)		3.87	0.789 (U)			0.21 (U)
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		0.62 (U)
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
3/29/2018			1.41	0.916 (U)			1.37
3/30/2018	0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
6/11/2018							1.27 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			0.442 (U)
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	0.902 (U)
4/1/2019			5	0.777 (U)	0.162 (U)		0.584 (U)
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
9/25/2019	1.01 (U)	1.18 (U)					1.03 (U)
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	0.806 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			1.42
9/24/2020	<1.88	<1.88	3.42	1.49	<1.88	<1.88	<1.88
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	0.826
3/2/2021		0.394 (U)					
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	0.955
8/19/2021		0.531 (U)					
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	0.314 (U)
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.104 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0804 (U)	0.301 (U)			
6/7/2016		0.158 (U)			0.0191 (U)	0.347	
7/27/2016		0.0354 (U)	0.206 (U)	0.196 (U)	0.541 (U)		
7/28/2016						0.815 (U)	
8/30/2016	1.09						
9/16/2016		1.04		0.915 (U)			
9/19/2016			1.58		0.826 (U)	0.862 (U)	
11/2/2016					0.791 (U)		
11/3/2016		0.314 (U)	0.342 (U)	0.928 (U)		0.797 (U)	
12/15/2016	1 (U)						
1/11/2017		0.34 (U)	0.365 (U)	0.502 (U)			
1/13/2017					0.296 (U)	0.72 (U)	
2/24/2017	0.504 (U)						
3/1/2017			0.395 (U)	0.202 (U)			
3/2/2017		0.746 (U)					
3/6/2017					0.518 (U)	0.518 (U)	
4/26/2017			0.507 (U)	0.264 (U)	0.282 (U)	1.13 (U)	
5/2/2017		0.111 (U)					
5/8/2017	0.455 (U)						
6/28/2017			0.892	0.636 (U)			
6/29/2017		0.576 (U)			1.12	0.841 (U)	
7/11/2017	0.471 (U)						
10/10/2017	0.649 (U)						
10/11/2017							0.586 (U)
11/20/2017							0.816 (U)
1/11/2018							0.841 (U)
2/20/2018							1.58
3/28/2018		0.438 (U)	0.92 (U)	0.56 (U)			
3/29/2018					1.73	1.91	
4/2/2018	0.512 (U)						
4/3/2018							0.385 (U)
6/5/2018						1.39	
6/6/2018					0.694 (U)		
6/7/2018			0.668 (U)				
6/11/2018		0.901 (U)		0.649 (U)			
6/28/2018							0.283 (U)
8/7/2018							0.332 (U)
9/19/2018	0.789 (U)						
9/24/2018							0.767 (U)
9/25/2018		0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)	1.62	
3/5/2019		0.272 (U)		0.474 (U)	0.84 (U)	0.985 (U)	
3/6/2019			0.714 (U)				
4/2/2019		0.847 (U)				1.42	
4/3/2019			0.385 (U)	0.429 (U)	1.01		
8/20/2019	2.44						
8/21/2019							1.01 (U)
9/24/2019						1.35	
9/25/2019		0.412 (U)			1.18 (U)		
9/26/2019			0.386 (U)	0.222 (U)			
10/8/2019	1.72						1.02 (U)
2/11/2020		0.461 (U)	1.48	0.597 (U)			
2/12/2020					1.11 (U)	1.61	0.45 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/17/2020	1.22 (U)						
3/24/2020		0.534 (U)	0.632 (U)	0.262 (U)	1.88	1.24 (U)	
3/25/2020							0.377 (U)
8/27/2020	1.26 (U)						
9/22/2020	1.06 (U)						
9/23/2020		0.466 (U)	0.887 (U)	0.43 (U)			
9/24/2020					0.611 (U)	1.8	0.568 (U)
2/9/2021		0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)	1.24	
2/10/2021							0.518 (U)
3/1/2021	1.2						
3/3/2021		0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)	1.2	
3/4/2021							0.636 (U)
8/19/2021	1.07 (U)						
8/26/2021				0.686 (U)			0.674 (U)
8/27/2021		0.9 (U)	0.761 (U)		0.779 (U)		
9/1/2021						1.86	
2/8/2022	0.4 (U)						0.834
2/9/2022		0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)	1.94	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		0.721	5.11	0.614	
7/26/2016		1.26	6.92	1.47	
8/31/2016					1.2
9/14/2016		0.901 (U)	3.96	1.27	
11/2/2016		1.09 (U)	4.53		
11/4/2016				0.434 (U)	
11/28/2016					0.264 (U)
1/12/2017			4.43	0.202 (U)	
1/13/2017		1.19			
2/22/2017					1.06 (U)
3/6/2017		0.669 (U)			
3/7/2017			4.8	0.0674 (U)	
5/1/2017		0.803 (U)	4.16		
5/2/2017				0.444 (U)	
5/8/2017					0.187 (U)
6/27/2017			2.8	0.77 (U)	
6/29/2017		1.35			
7/17/2017					1.42
10/12/2017	1.49				
10/16/2017					1.17
11/20/2017	0.918 (U)				
1/10/2018	1.05				
2/19/2018	2.05				1.58 (D)
3/29/2018		0.703 (U)	3.42	0.648 (U)	
4/3/2018	0.68 (U)				
6/6/2018			3.99		
6/7/2018		0.628 (U)		0.745 (U)	
6/28/2018	1.28				
8/6/2018					0.196 (U)
8/7/2018	1.16				
9/24/2018	0.965 (U)				
9/26/2018		0.756 (U)	2.73	0.377 (U)	
3/4/2019		1.21 (U)	4.43	1 (U)	
4/3/2019		1.07 (U)	4.79	0.43 (U)	
8/19/2019					1.39
8/21/2019	1.24 (U)				
9/24/2019			4.06	0.699 (U)	
9/25/2019		1.86			
10/8/2019	0.866 (U)				1.32 (U)
2/12/2020	1.83	1.25	4.02	0.913 (U)	
3/17/2020					1 (U)
3/24/2020	1.27 (U)		3.52		
3/25/2020		0.766 (U)			
8/26/2020					1.75
9/22/2020		0.795 (U)	2.98	0.428 (U)	0.688 (U)
9/24/2020	0.634 (U)				
2/8/2021			2.89	0.613 (U)	
2/9/2021		0.626 (U)			
2/10/2021	0.783 (U)				
3/2/2021			1.67	0.579 (U)	0.948 (U)
3/3/2021		1			
3/4/2021	0.818 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/20/2021					0.528 (U)
8/26/2021		1.17 (U)	4.68	0.798 (U)	
9/3/2021	0.971 (U)				
2/8/2022	0.534 (U)				0.462 (U)
2/10/2022			3.33	0.375 (U)	
2/11/2022		0.996			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.12 (J)	<0.1				0.15 (J)
6/2/2016	<0.1				<0.1	0.62	
7/25/2016			0.06 (J)		0.06 (J)		0.14 (J)
7/26/2016	0.02 (J)	0.08 (J)				0.49	
9/13/2016		0.11 (J)	<0.1				
9/14/2016				0.08 (J)			0.18 (J)
9/15/2016	<0.1					0.54	
9/19/2016					<0.1		
11/1/2016		<0.1			<0.1	0.68	<0.1
11/2/2016	<0.1						
11/4/2016			<0.1	<0.1			
12/15/2016				0.06 (J)			
1/10/2017	<0.1						
1/11/2017		0.05 (J)				0.49	0.09 (J)
1/16/2017			<0.1	0.1 (J)	<0.1		
2/21/2017					<0.1		
3/1/2017							<0.1
3/2/2017		<0.1	<0.1			0.48	
3/3/2017				<0.1			
3/8/2017	<0.1						
4/26/2017	<0.1				<0.1	0.48	0.08 (J)
4/27/2017		0.04 (J)	0.01 (J)				
4/28/2017				0.06 (J)			
5/26/2017				0.09 (J)			
6/27/2017		<0.1	<0.1				
6/28/2017				0.11 (J)		0.47	0.12 (J)
6/30/2017	<0.1				<0.1		
10/3/2017		<0.1	<0.1	<0.1			
10/4/2017					<0.1	<0.1	<0.1
10/5/2017	<0.1						
3/27/2018	<0.1		<0.1		<0.1		
3/28/2018				0.31		0.56	<0.1
3/29/2018		<0.1					
6/5/2018		0.055 (J)					
6/6/2018			<0.1				
6/7/2018				0.11 (J)		0.48	
6/8/2018	<0.1						0.2 (J)
6/11/2018					<0.1		
10/1/2018	<0.1	<0.1	<0.1	<0.1		0.44	<0.1
10/2/2018					<0.1		
2/26/2019	<0.1				<0.1		
2/27/2019		0.052 (J)	<0.1	0.12 (J)		0.53	0.13 (J)
3/28/2019		0.036 (J)	<0.1				
3/29/2019	<0.1			0.13 (J)			
4/1/2019					<0.1	0.45	0.1 (J)
9/24/2019		0.063 (J)	<0.1	0.081 (J)			
9/25/2019	<0.1				<0.1	0.46	0.1 (J)
2/10/2020		0.061 (J)	<0.1				
2/11/2020				0.075 (J)			0.094 (J)
2/12/2020	<0.1				<0.1	0.4	
3/18/2020	<0.1		<0.1				
3/19/2020		0.064 (J)		0.093 (J)	<0.1	0.51	0.11 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		0.058 (J)	<0.1	0.08 (J)		0.47	0.098 (J)
9/24/2020					<0.1		
9/25/2020	<0.1						
2/10/2021	<0.1			0.094 (J)		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						
3/3/2021		0.078 (J)	<0.1	0.085 (J)		0.44	0.1
8/19/2021	<0.1	0.074 (J)	<0.1		<0.1	0.47	
8/27/2021				0.12			0.12
2/9/2022		0.057 (J)	<0.1	0.094 (J)		0.43	0.097 (J)
2/10/2022	<0.1						
2/11/2022					<0.1		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	0.085 (J)
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.1	0.32			
9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	<0.1 (*)	0.44	<0.1 (*)	<0.1 (*)		0.27 (J)	<0.1 (*)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	<0.1 (*)	<0.1 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			<0.1 (*)
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.1 (*)		<0.1 (*)
2/23/2017			<0.1 (*)				
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.06 (J)
6/30/2017			<0.1 (*)	0.2 (J)			
7/5/2017					0.11 (J)		0.08 (J)
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
10/5/2017					<0.1 (*)		<0.1 (*)
10/6/2017				<0.1 (*)			
10/9/2017			<0.1 (*)			<0.1 (*)	
10/10/2017	<0.1	<0.1					
3/29/2018			<0.1	0.49			<0.1
3/30/2018	<0.1	0.35			<0.1	<0.1	
6/11/2018							<0.1
6/12/2018				0.037 (J)	<0.1	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.1				
10/2/2018	<0.1	<0.1	<0.1	<0.1			<0.1
10/3/2018					<0.1	0.31	
2/27/2019	<0.1	<0.1	<0.1	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		0.059 (J)
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
9/25/2019	0.064 (J)	<0.1					0.054 (J)
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.1	<0.1	<0.1	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.1	0.097 (J)			0.057 (J)
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	0.17
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
8/19/2021		<0.1					
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	0.069 (J)
2/8/2022				0.087 (J)	0.063 (J)	0.14	0.053 (J)
2/10/2022	<0.1	<0.1	0.059 (J)				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.1	<0.1			
6/7/2016		<0.1			<0.1	<0.1	
7/27/2016		<0.1	<0.1	<0.1	<0.1		
7/28/2016						0.02 (J)	
8/30/2016	0.09 (J)						
9/16/2016		<0.1		<0.1			
9/19/2016			<0.1		<0.1	0.02 (J)	
11/2/2016					<0.1		
11/3/2016		<0.1	<0.1	<0.1		<0.1	
11/14/2016	0.18 (J)						
1/11/2017		<0.1	<0.1	<0.1			
1/13/2017					<0.1	<0.1	
2/24/2017	0.05 (J)						
3/1/2017			<0.1	<0.1			
3/2/2017		<0.1					
3/6/2017					<0.1	<0.1	
4/26/2017			<0.1	<0.1	<0.1	0.04 (J)	
5/2/2017		<0.1					
5/8/2017	0.03 (J)						
6/28/2017			<0.1	<0.1			
6/29/2017		<0.1			<0.1	<0.1	
7/11/2017	0.07 (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						
10/11/2017							<0.1
11/20/2017							<0.1
1/11/2018							<0.1
2/20/2018							0.23
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
6/5/2018						0.13 (J)	
6/6/2018					<0.1		
6/7/2018			<0.1				
6/11/2018		<0.1		<0.1			
6/28/2018							<0.1
8/7/2018							0.048 (J)
9/19/2018	<0.1						
9/24/2018							<0.1
9/25/2018		<0.1	<0.1	<0.1	<0.1	0 (J)	
3/5/2019		<0.1		<0.1	<0.1	0.32	
3/6/2019			<0.1				
3/27/2019	0.081 (J)						<0.1
4/2/2019		<0.1				0.12 (J)	
4/3/2019			<0.1	<0.1	<0.1		
8/20/2019	<0.1						
8/21/2019							<0.1
9/24/2019						0.15 (J)	
9/25/2019		<0.1			<0.1		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/26/2019			<0.1	<0.1			
10/8/2019	0.034 (J)						
10/9/2019							<0.1
2/11/2020		<0.1	<0.1	<0.1			
2/12/2020					<0.1	0.1 (J)	<0.1
3/17/2020	<0.1						
3/24/2020		<0.1	<0.1	<0.1	<0.1	0.081 (J)	
3/25/2020							<0.1
8/27/2020	<0.1						
9/22/2020	<0.1						
9/23/2020		<0.1	<0.1	<0.1			
9/24/2020					<0.1	0.079 (J)	<0.1
2/9/2021			<0.1	<0.1	<0.1	0.092 (J)	
2/10/2021							<0.1
3/1/2021	<0.1						
3/3/2021		<0.1	<0.1	<0.1	<0.1		
3/4/2021						0.091 (J)	<0.1
8/19/2021	<0.1						
8/26/2021				<0.1			0.063 (J)
8/27/2021		<0.1	<0.1		<0.1		
9/1/2021						0.11	
2/8/2022	<0.1						0.052 (J)
2/9/2022		<0.1	<0.1	<0.1	<0.1	0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.1	0.11 (J)	<0.1	
7/26/2016		<0.1	0.05 (J)	<0.1	
8/31/2016					0.14 (J)
9/14/2016		<0.1	0.04 (J)	<0.1	
11/2/2016		<0.1	<0.1		
11/4/2016				<0.1	
11/28/2016					0.12 (J)
1/12/2017			0.04 (J)	<0.1	
1/13/2017		<0.1			
2/22/2017					0.09 (J)
3/6/2017		<0.1			
3/7/2017			<0.1	<0.1	
5/1/2017		<0.1	<0.1		
5/2/2017				<0.1	
5/8/2017					0.05 (J)
6/27/2017			<0.1	<0.1	
6/29/2017		<0.1			
7/17/2017					0.14 (J)
10/3/2017			<0.1	<0.1	
10/5/2017		<0.1			
10/12/2017	<0.1				
10/16/2017					0.12 (J)
11/20/2017	<0.1				
1/10/2018	<0.1				
2/19/2018	<0.1				0.17
3/29/2018		<0.1	<0.1	<0.1	
4/3/2018	<0.1				
6/6/2018			0.15 (J)		
6/7/2018		<0.1		<0.1	
6/28/2018	<0.1				
8/6/2018					0.087 (J)
8/7/2018	<0.1				
9/24/2018	<0.1				
9/26/2018		<0.1	<0.1	<0.1	
2/25/2019					0.14 (J)
3/4/2019		<0.1	0.19 (J)	<0.1	
3/26/2019	<0.1				
4/3/2019		<0.1	0.047 (J)	<0.1	
6/12/2019					0.12 (J)
8/19/2019					<0.1
8/21/2019	<0.1				
9/24/2019			0.05 (J)	<0.1	
9/25/2019		<0.1			
10/8/2019					0.052 (J)
10/9/2019	<0.1				
2/12/2020	<0.1	<0.1	<0.1	<0.1	
3/17/2020					0.053 (J)
3/24/2020	<0.1		<0.1	<0.1	
3/25/2020		<0.1			
8/26/2020					0.068 (J)
9/22/2020		<0.1	0.056 (J)	<0.1	0.058 (J)
9/24/2020	<0.1				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2021			0.055 (J)	<0.1	
2/9/2021		<0.1			
2/10/2021	<0.1				
3/2/2021			<0.1	<0.1	0.073 (J)
3/3/2021		<0.1			
3/4/2021	<0.1				
8/20/2021					0.06 (J)
8/26/2021		<0.1	0.061 (J)	<0.1	
9/3/2021	<0.1				
2/8/2022	<0.1				0.064 (J)
2/10/2022			0.055 (J)	<0.1	
2/11/2022		<0.1			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.00056 (J)	<0.001				<0.001
6/2/2016	<0.001				<0.001	0.00056 (J)	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		0.0001 (J)	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					0.0002 (J)	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		0.0001 (J)	<0.001			0.0002 (J)	
3/3/2017				<0.001			
3/8/2017	0.0001 (J)						
4/26/2017	<0.001				<0.001	<0.001	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		4.9E-05 (J)	<0.001				
2/11/2020				<0.001			<0.001
2/12/2020	<0.001				<0.001	<0.001	
3/18/2020	<0.001		<0.001				
3/19/2020		0.00012 (J)		<0.001	<0.001	0.00017 (J)	<0.001
9/23/2020		<0.001	0.00021 (J)	0.0011 (J)		<0.001	0.00015 (J)
9/24/2020					<0.001		
9/25/2020	<0.001						
2/10/2021	4.8E-05 (J)			0.00015 (J)		<0.001	<0.001
2/11/2021					4.6E-05 (J)		
2/12/2021		4.4E-05 (J)	0.00038 (J)				
3/1/2021					<0.001		
3/2/2021	<0.001						
3/3/2021		5.6E-05 (J)	<0.001	<0.001		<0.001	<0.001
8/19/2021	<0.001	<0.001	<0.001		<0.001	<0.001	
8/27/2021				<0.001			<0.001
2/9/2022		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2022	<0.001						
2/11/2022					<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001	<0.001 (*)			
6/9/2016					<0.001	<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001	<0.001			
8/2/2016					<0.001	<0.001	<0.001
9/20/2016	<0.001	<0.001	<0.001	0.0002 (J)			
9/21/2016					<0.001	<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
11/8/2016					<0.001		
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			<0.001
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		<0.001
2/23/2017			<0.001				
5/3/2017		<0.001 (*)					
5/5/2017					<0.001	<0.001 (*)	
5/8/2017	<0.001		<0.001	<0.001			<0.001
6/30/2017			<0.001	<0.001			
7/5/2017					<0.001		<0.001
7/7/2017						7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)					
3/29/2018			<0.001	<0.001			<0.001
3/30/2018	<0.001	<0.001			<0.001	<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	<0.001	<0.001	6.2E-05 (J)	<0.001	5.4E-05 (J)	<0.001
3/19/2020		0.0001 (J)			<0.001	7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		<0.001	8.5E-05 (J)			<0.001
9/24/2020	<0.001	6.4E-05 (J)	<0.001	0.00037 (J)	<0.001	6.3E-05 (J)	9.5E-05 (J)
2/10/2021	5.1E-05 (J)	5E-05 (J)	<0.001	0.00072 (J)			
2/11/2021					<0.001		
2/12/2021						5.2E-05 (J)	6.6E-05 (J)
3/2/2021		5.6E-05 (J)					
3/3/2021	<0.001		<0.001	<0.001	<0.001	<0.001	0.00016 (J)
8/19/2021		<0.001					
8/20/2021	<0.001		<0.001	0.00096 (J)	<0.001	<0.001	<0.001
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.001	<0.001			
6/7/2016		<0.001			<0.001	<0.001	
7/27/2016		<0.001	<0.001	<0.001	<0.001		
7/28/2016						<0.001	
8/30/2016	<0.001						
9/16/2016		<0.001		<0.001			
9/19/2016			<0.001		<0.001	<0.001	
11/2/2016					0.0013 (J)		
11/3/2016		<0.001	<0.001	<0.001		<0.001	
11/14/2016	<0.001						
1/11/2017		<0.001	<0.001	<0.001			
1/13/2017					<0.001	<0.001	
2/24/2017	<0.001						
3/1/2017			<0.001	<0.001			
3/2/2017		8E-05 (J)					
3/6/2017					<0.001	<0.001	
4/26/2017			<0.001	<0.001	<0.001	<0.001	
5/2/2017		<0.001					
5/8/2017	<0.001						
6/28/2017			<0.001	0.0001 (J)			
6/29/2017		8E-05 (J)			<0.001	<0.001	
7/11/2017	<0.001						
10/10/2017	<0.001						
10/11/2017							0.0001 (J)
11/20/2017							<0.001
1/11/2018							0.0002 (J)
2/20/2018							<0.001
3/28/2018		<0.001	<0.001	<0.001			
3/29/2018					<0.001	<0.001	
4/2/2018	<0.001						
4/3/2018							<0.001
6/28/2018							<0.001
8/7/2018							<0.001
9/19/2018	<0.001						
9/24/2018							<0.001
3/5/2019		<0.001		<0.001	<0.001	<0.001	
3/6/2019			<0.001				
4/2/2019		<0.001				<0.001	
4/3/2019			<0.001	<0.001	<0.001		
8/20/2019	<0.001						
8/21/2019							<0.001
9/24/2019						<0.001	
9/25/2019		<0.001			<0.001		
9/26/2019			<0.001	<0.001			
10/9/2019							<0.001
2/11/2020		<0.001	<0.001	<0.001			
2/12/2020					<0.001	<0.001	<0.001
3/24/2020		6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)	<0.001	
3/25/2020							5.1E-05 (J)
8/27/2020	<0.001						
9/22/2020	<0.001						
9/23/2020		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/24/2020					9.2E-05 (J)	4.6E-05 (J)	<0.001
2/9/2021			5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)	<0.001	
2/10/2021							<0.001
3/1/2021	<0.001						
3/3/2021		<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)		
3/4/2021						<0.001	<0.001
8/19/2021	<0.001						
8/26/2021				<0.001			<0.001
8/27/2021		<0.001	<0.001		<0.001		
9/1/2021						<0.001	
2/8/2022	<0.001						<0.001
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.001	<0.001	<0.001	
7/26/2016		<0.001	<0.001	<0.001	
8/31/2016					<0.001
9/14/2016		<0.001	<0.001	<0.001	
11/2/2016		<0.001	<0.001		
11/4/2016				<0.001	
11/28/2016					<0.001
1/12/2017			<0.001	<0.001	
1/13/2017		<0.001			
2/22/2017					<0.001
3/6/2017		<0.001			
3/7/2017			0.0001 (J)	7E-05 (J)	
5/1/2017		<0.001	<0.001		
5/2/2017				<0.001	
5/8/2017					<0.001
6/27/2017			<0.001	<0.001	
6/29/2017		<0.001			
7/17/2017					<0.001
10/12/2017	9E-05 (J)				
10/16/2017					<0.001
11/20/2017	<0.001				
1/10/2018	<0.001				
2/19/2018	<0.001				<0.001
3/29/2018		<0.001	<0.001	<0.001	
4/3/2018	<0.001				
6/28/2018	<0.001				
8/6/2018					<0.001
8/7/2018	<0.001				
9/24/2018	<0.001				
2/25/2019					<0.001
3/4/2019		<0.001	<0.001	<0.001	
4/3/2019		<0.001	<0.001	<0.001	
6/12/2019					<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.001
8/21/2019	<0.001				
9/24/2019			<0.001	9E-05 (J)	
9/25/2019		<0.001			
10/8/2019					<0.001
10/9/2019	<0.001				
2/12/2020	<0.001	<0.001	<0.001	<0.001	
3/17/2020					<0.001
3/24/2020	<0.001		5.4E-05 (J)	6.8E-05 (J)	
3/25/2020		<0.001			
8/26/2020					<0.001
9/22/2020		<0.001	4.5E-05 (J)	4.2E-05 (J)	0.0001 (J)
9/24/2020	3.8E-05 (J)				
2/8/2021			0.00013 (J)	3.7E-05 (J)	
2/9/2021		<0.001			
2/10/2021	<0.001				
3/2/2021			5.1E-05 (J)	9.2E-05 (J)	<0.001
3/3/2021		<0.001			
3/4/2021	<0.001				
8/20/2021					<0.001
8/26/2021		<0.001	<0.001	<0.001	
9/3/2021	<0.001				
2/8/2022	<0.001				<0.001
2/10/2022			<0.001	<0.001	
2/11/2022		<0.001			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.015	<0.03				0.01
6/2/2016	<0.03				<0.03	0.018	
7/25/2016			0.002 (J)		<0.03		0.0132 (J)
7/26/2016	<0.03	0.0135 (J)				0.0221 (J)	
9/13/2016		0.0112 (J)	<0.03				
9/14/2016				0.004 (J)			0.012 (J)
9/15/2016	<0.03					0.0197 (J)	
9/19/2016					<0.03		
11/1/2016		0.0163 (J)			<0.03	0.0194 (J)	0.0115 (J)
11/2/2016	<0.03						
11/4/2016			<0.03	<0.03			
12/15/2016				0.0026 (J)			
1/10/2017	<0.03						
1/11/2017		0.0166 (J)				0.0177 (J)	0.0085 (J)
1/16/2017			0.0023 (J)	0.0023 (J)	<0.03		
2/21/2017					<0.03		
3/1/2017							0.0114 (J)
3/2/2017		0.0159 (J)	0.0025 (J)			0.0185 (J)	
3/3/2017				0.0013 (J)			
3/8/2017	<0.03						
4/26/2017	<0.03				<0.03	0.0183 (J)	0.0092 (J)
4/27/2017		0.0137 (J)	0.0027 (J)				
4/28/2017				0.0031 (J)			
5/26/2017				0.0038 (J)			
6/27/2017		0.0094 (J)	0.0024 (J)				
6/28/2017				0.0026 (J)		0.0173 (J)	0.0085 (J)
6/30/2017	<0.03				<0.03		
3/27/2018	<0.03		0.0023 (J)		0.0011 (J)		
3/28/2018				0.0025 (J)		0.02 (J)	0.013 (J)
3/29/2018		0.0078 (J)					
6/5/2018		0.0079 (J)					
6/6/2018			0.0024 (J)				
6/7/2018				0.0017 (J)		0.02 (J)	
6/8/2018	<0.03						0.012 (J)
6/11/2018					0.0012 (J)		
10/1/2018	<0.03	0.0053 (J)	0.0023 (J)	<0.03		0.02 (J)	0.011 (J)
10/2/2018					<0.03		
2/26/2019	<0.03				0.0011 (J)		
2/27/2019		0.0093 (J)	0.0023 (J)	0.0011 (J)		0.021 (J)	0.014 (J)
3/28/2019		0.013 (J)	0.0022 (J)				
3/29/2019	<0.03			0.0016 (J)			
4/1/2019					0.001 (J)	0.021 (J)	0.013 (J)
9/24/2019		0.0046 (J)	0.0023 (J)	0.0011 (J)			
9/25/2019	<0.03				0.0011 (J)	0.02 (J)	0.01 (J)
2/10/2020		0.011 (J)	0.0023 (J)				
2/11/2020				0.0012 (J)			0.013 (J)
2/12/2020	<0.03				0.0013 (J)	0.019 (J)	
3/18/2020	<0.03		0.0024 (J)				
3/19/2020		0.013 (J)		0.0022 (J)	0.0012 (J)	0.023 (J)	0.014 (J)
9/23/2020		0.014 (J)	0.0024 (J)	0.0016 (J)		0.023 (J)	0.013 (J)
9/24/2020					0.0011 (J)		
9/25/2020	<0.03						

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Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.03			0.0039 (J)		0.023 (J)	0.015 (J)
2/11/2021					0.0012 (J)		
2/12/2021		0.01 (J)	0.0025 (J)				
3/1/2021					0.0011 (J)		
3/2/2021	<0.03						
3/3/2021		0.012 (J)	0.0025 (J)	0.0016 (J)		0.024 (J)	0.017 (J)
8/19/2021	<0.03	0.013 (J)	0.0023 (J)		0.0012 (J)	0.023 (J)	
8/27/2021				0.0058 (J)			0.026 (J)
2/9/2022		0.013 (J)	0.0027 (J)	0.006 (J)		0.026 (J)	0.021 (J)
2/10/2022	<0.03						
2/11/2022					0.0014 (J)		

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Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.007	<0.03	0.0067	<0.03			
6/9/2016					0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	<0.03	0.008 (J)	<0.03			
8/2/2016					0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	<0.03	0.0111 (J)	<0.03			
9/21/2016					0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	<0.03	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016					0.0072 (J)		
1/18/2017	0.0066 (J)	<0.03	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017				<0.03			0.0055 (J)
2/21/2017	0.0067 (J)	<0.03				<0.03	
2/22/2017				<0.03	0.0064 (J)		0.0063 (J)
2/23/2017			0.0099 (J)				
5/3/2017		<0.03					
5/5/2017					0.007 (J)	<0.03	
5/8/2017	0.007 (J)		0.0086 (J)	<0.03			0.0066 (J)
6/30/2017			0.0108 (J)	<0.03			
7/5/2017					0.0072 (J)		0.0058 (J)
7/7/2017						<0.03	
7/10/2017	0.0064 (J)	<0.03					
3/29/2018			0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)	<0.03			0.007 (J)	<0.03	
6/11/2018							0.0064 (J)
6/12/2018				<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	<0.03	0.014 (J)				
10/2/2018	0.0064 (J)	<0.03	0.012 (J)	<0.03			0.006 (J)
10/3/2018					0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	<0.03	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019			0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)	<0.03				<0.03	
9/25/2019	0.0073 (J)	<0.03					0.0057 (J)
9/26/2019			0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	<0.03	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020		<0.03			0.007 (J)	<0.03	
3/20/2020	0.0072 (J)		0.0091 (J)	<0.03			0.0051 (J)
9/24/2020	0.0074 (J)	<0.03	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	<0.03	0.0067 (J)	0.00081 (J)			
2/11/2021					0.007 (J)		
2/12/2021						0.0053 (J)	<0.03
3/2/2021		<0.03					
3/3/2021	0.0077 (J)		0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/19/2021		<0.03					
8/20/2021	0.0079 (J)		0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022				<0.03	0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0086 (J)	<0.03	0.0072 (J)				

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Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0088	0.015			
6/7/2016		<0.03				0.0055	
7/27/2016		<0.03	0.0087 (J)	0.0049 (J)	<0.03		
7/28/2016						0.0045 (J)	
8/30/2016	0.0061 (J)						
9/16/2016		<0.03		0.0031 (J)			
9/19/2016			0.0043 (J)		<0.03	0.0054 (J)	
11/2/2016					<0.03		
11/3/2016		<0.03	<0.03	0.0021 (J)		<0.03	
11/14/2016	0.0064 (J)						
1/11/2017		0.0035 (J)	0.0052 (J)	0.0025 (J)			
1/13/2017					<0.03	0.0062 (J)	
2/24/2017	0.0049 (J)						
3/1/2017			0.0053 (J)	0.0029 (J)			
3/2/2017		<0.03					
3/6/2017					<0.03	0.0059 (J)	
4/26/2017			0.0041 (J)	0.0019 (J)	<0.03	0.0054 (J)	
5/2/2017		<0.03					
5/8/2017	0.0053 (J)						
6/28/2017			0.0039 (J)	0.0016 (J)			
6/29/2017		<0.03			<0.03	0.0047 (J)	
7/11/2017	0.0051 (J)						
10/10/2017	0.0043 (J)						
10/11/2017							0.0018 (J)
11/20/2017							0.0018 (J)
1/11/2018							0.0019 (J)
2/20/2018							<0.03
3/28/2018		<0.03	0.0041 (J)	0.0024 (J)			
3/29/2018					<0.03	0.0062 (J)	
4/2/2018	0.0045 (J)						
4/3/2018							0.0022 (J)
6/5/2018						0.0061 (J)	
6/6/2018					<0.03		
6/7/2018			0.0032 (J)				
6/11/2018		<0.03		0.0014 (J)			
6/28/2018							0.0026 (J)
8/7/2018							0.0024 (J)
9/19/2018	0.0043 (J)						
9/24/2018							0.0022 (J)
9/25/2018		<0.03	0.0036 (J)	0.0016 (J)	<0.03	0.0062 (J)	
3/5/2019		<0.03		0.0031 (J)	<0.03	0.0053 (J)	
3/6/2019			0.0033 (J)				
4/2/2019		<0.03				0.0051 (J)	
4/3/2019			0.0035 (J)	0.0028 (J)	<0.03		
8/20/2019	0.0036 (J)						
8/21/2019							0.0035 (J)
9/24/2019						0.0068 (J)	
9/25/2019		<0.03			<0.03		
9/26/2019			0.0032 (J)	0.0029 (J)			
10/8/2019	0.0036 (J)						
10/9/2019							0.0036 (J)
2/11/2020		<0.03	0.0033 (J)	0.005 (J)			

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Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.03	0.0065 (J)	0.0041 (J)
3/17/2020	0.0046 (J)						
3/24/2020		0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03	0.0064 (J)	
3/25/2020							0.0049 (J)
8/27/2020	0.0039 (J)						
9/22/2020	0.0036 (J)						
9/23/2020		<0.03	0.003 (J)	0.0022 (J)			
9/24/2020					<0.03	0.0069 (J)	0.0054 (J)
2/9/2021			0.0031 (J)	0.0019 (J)	<0.03	0.006 (J)	
2/10/2021							0.0071 (J)
3/1/2021	0.0037 (J)						
3/3/2021		<0.03	0.0034 (J)	0.0021 (J)	<0.03		
3/4/2021						0.0062 (J)	0.0084 (J)
8/19/2021	0.0038 (J)						
8/26/2021				0.0019 (J)			0.0082 (J)
8/27/2021		<0.03	0.0032 (J)		<0.03		
9/1/2021						0.0057 (J)	
2/8/2022	0.0039 (J)						0.008 (J)
2/9/2022		<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)	0.0061 (J)	

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Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		0.013	0.0049 (J)	<0.03	
7/26/2016		0.0123 (J)	0.0063 (J)	0.0027 (J)	
8/31/2016					<0.03
9/14/2016		0.0137 (J)	0.0058 (J)	0.0029 (J)	
11/2/2016		0.0136 (J)	0.0053 (J)		
11/4/2016				<0.03	
11/28/2016					<0.03
1/12/2017			0.0054 (J)	0.0032 (J)	
1/13/2017		0.0121 (J)			
2/22/2017					<0.03
3/6/2017		0.0143 (J)			
3/7/2017			0.0056 (J)	0.0035 (J)	
5/1/2017		0.0132 (J)	0.0031 (J)		
5/2/2017				0.0031 (J)	
5/8/2017					0.0014 (J)
6/27/2017			0.0018 (J)	0.0029 (J)	
6/29/2017		0.0145 (J)			
7/17/2017					<0.03
10/12/2017	<0.03				
10/16/2017					0.0016 (J)
11/20/2017	<0.03				
1/10/2018	<0.03				
2/19/2018	<0.03				<0.03
3/29/2018		0.014 (J)	0.0058 (J)	0.0034 (J)	
4/3/2018	<0.03				
6/6/2018			0.0068 (J)		
6/7/2018		0.013 (J)		0.0032 (J)	
6/28/2018	<0.03				
8/6/2018					<0.03
8/7/2018	<0.03				
9/24/2018	<0.03				
9/26/2018		0.014 (J)	0.0065 (J)	0.0032 (J)	
3/4/2019		0.015 (J)	0.0065 (J)	0.0032 (J)	
4/3/2019		0.014 (J)	0.007 (J)	0.0035 (J)	
8/19/2019					0.0019 (J)
8/21/2019	<0.03				
9/24/2019			0.0065 (J)	0.0031 (J)	
9/25/2019		0.014 (J)			
10/8/2019					0.0015 (J)
10/9/2019	<0.03				
2/12/2020	<0.03	0.011 (J)	0.0066 (J)	0.0032 (J)	
3/17/2020					0.0017 (J)
3/24/2020	<0.03		0.0064 (J)	0.0033 (J)	
3/25/2020		0.014 (J)			
8/26/2020					0.0032 (J)
9/22/2020		0.013 (J)	0.0066 (J)	0.0034 (J)	0.0029 (J)
9/24/2020	<0.03				
2/8/2021			0.0063 (J)	0.0032 (J)	
2/9/2021		0.011 (J)			
2/10/2021	<0.03				
3/2/2021			0.0018 (J)	0.0031 (J)	0.0033 (J)
3/3/2021		0.012 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2021	<0.03				
8/20/2021					0.0028 (J)
8/26/2021		0.0094 (J)	0.0075 (J)	0.0032 (J)	
9/3/2021	<0.03				
2/8/2022	0.00076 (J)				0.0031 (J)
2/10/2022			0.0076 (J)	0.0036 (J)	
2/11/2022		0.012 (J)			

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0002	<0.0002				<0.0002
6/2/2016	<0.0002				<0.0002	<0.0002	
7/25/2016			<0.0002		<0.0002		<0.0002
7/26/2016	<0.0002	<0.0002				<0.0002	
9/13/2016		<0.0002	<0.0002				
9/14/2016				<0.0002			<0.0002
9/15/2016	<0.0002					<0.0002	
9/19/2016					<0.0002		
11/1/2016		<0.0002			<0.0002	<0.0002	<0.0002
11/2/2016	<0.0002						
11/4/2016			<0.0002	<0.0002			
12/15/2016				<0.0002			
1/10/2017	<0.0002						
1/11/2017		<0.0002				<0.0002	<0.0002
1/16/2017			<0.0002	<0.0002	<0.0002		
2/21/2017					<0.0002		
3/1/2017							<0.0002
3/2/2017		<0.0002	<0.0002			<0.0002	
3/3/2017				<0.0002			
3/8/2017	<0.0002						
4/26/2017	<0.0002				<0.0002	<0.0002	<0.0002
4/27/2017		<0.0002	<0.0002				
4/28/2017				<0.0002			
5/26/2017				<0.0002			
6/27/2017		<0.0002	<0.0002				
6/28/2017				<0.0002		<0.0002	<0.0002
6/30/2017	<0.0002				<0.0002		
3/27/2018	<0.0002		<0.0002		<0.0002		
3/28/2018				<0.0002		<0.0002	<0.0002
3/29/2018		<0.0002					
2/26/2019	6.1E-05 (J)				6.8E-05 (J)		
2/27/2019		5.1E-05 (J)	5.4E-05 (J)	<0.0002		6.2E-05 (J)	6.1E-05 (J)
3/28/2019		4E-05 (J)	<0.0002				
3/29/2019	<0.0002			<0.0002			
4/1/2019					8.2E-05 (J)	9.6E-05 (J)	8.4E-05 (J)
9/24/2019		<0.0002	<0.0002	<0.0002			
9/25/2019	<0.0002				<0.0002	<0.0002	<0.0002
2/10/2020		<0.0002	<0.0002				
2/11/2020				<0.0002			<0.0002
2/12/2020	<0.0002				<0.0002	<0.0002	
2/10/2021	<0.0002			<0.0002		<0.0002	<0.0002
2/11/2021					<0.0002		
2/12/2021		<0.0002	<0.0002				
2/9/2022		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
2/10/2022	<0.0002						
2/11/2022					<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	<0.0002 (*)
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016					<0.0002		
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			<0.0002
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		<0.0002
2/23/2017			<0.0002				
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		<0.0002
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
3/29/2018			<0.0002	<0.0002			<0.0002
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
9/25/2019	<0.0002	<0.0002					<0.0002
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0002	<0.0002			
6/7/2016		9.5E-05 (J)			9.6E-05 (J)	9.6E-05 (J)	
7/27/2016		<0.0002	<0.0002	<0.0002	<0.0002		
7/28/2016						<0.0002	
8/30/2016	<0.0002						
9/16/2016		<0.0002		<0.0002			
9/19/2016			<0.0002		<0.0002	<0.0002	
11/2/2016					<0.0002		
11/3/2016		<0.0002	<0.0002	<0.0002		<0.0002	
11/14/2016	<0.0002						
1/11/2017		<0.0002	<0.0002	<0.0002			
1/13/2017					<0.0002	<0.0002	
2/24/2017	<0.0002						
3/1/2017			<0.0002	<0.0002			
3/2/2017		<0.0002					
3/6/2017					<0.0002	<0.0002	
4/26/2017			<0.0002	<0.0002	<0.0002	<0.0002	
5/2/2017		<0.0002					
5/8/2017	<0.0002						
6/28/2017			<0.0002	<0.0002			
6/29/2017		<0.0002			<0.0002	<0.0002	
7/11/2017	<0.0002						
10/10/2017	<0.0002						
10/11/2017							<0.0002
11/20/2017							7E-05 (J)
1/11/2018							<0.0002
2/20/2018							<0.0002
3/28/2018		<0.0002	<0.0002	<0.0002			
3/29/2018					<0.0002	<0.0002	
4/2/2018	<0.0002						
4/3/2018							<0.0002
6/28/2018							<0.0002
8/7/2018							<0.0002
9/19/2018	5.3E-05 (J)						
9/24/2018							<0.0002
9/25/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/5/2019		<0.0002		<0.0002	<0.0002	<0.0002	
3/6/2019			<0.0002				
8/20/2019	<0.0002						
8/21/2019							<0.0002
2/11/2020		<0.0002	<0.0002	<0.0002			
2/12/2020					<0.0002	<0.0002	<0.0002
8/27/2020	<0.0002						
2/9/2021			<0.0002	<0.0002	<0.0002	<0.0002	
2/10/2021							<0.0002
3/3/2021		<0.0002	<0.0002	<0.0002	<0.0002		
3/4/2021						<0.0002	<0.0002
8/19/2021	<0.0002						
8/26/2021				<0.0002			<0.0002
8/27/2021		<0.0002	<0.0002		<0.0002		
9/1/2021						<0.0002	
2/8/2022	<0.0002						<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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)
6/2/2016		<0.0002	<0.0002	<0.0002	
7/26/2016		<0.0002	<0.0002	<0.0002	
8/31/2016					<0.0002
9/14/2016		<0.0002	<0.0002	<0.0002	
11/2/2016		<0.0002	<0.0002		
11/4/2016				<0.0002	
11/28/2016					<0.0002
1/12/2017			<0.0002	<0.0002	
1/13/2017		<0.0002			
2/22/2017					<0.0002
3/6/2017		<0.0002			
3/7/2017			<0.0002	<0.0002	
5/1/2017		<0.0002	<0.0002		
5/2/2017				<0.0002	
5/8/2017					<0.0002
6/27/2017			<0.0002	<0.0002	
6/29/2017		<0.0002			
7/17/2017					<0.0002
10/12/2017	<0.0002				
10/16/2017					<0.0002
11/20/2017	8E-05 (J)				
1/10/2018	<0.0002				
2/19/2018	<0.0002				<0.0002
3/29/2018		<0.0002	<0.0002	<0.0002	
4/3/2018	<0.0002				
6/28/2018	3.6E-05 (J)				
8/6/2018					<0.0002
8/7/2018	<0.0002				
9/24/2018	<0.0002				
9/26/2018		<0.0002	<0.0002	<0.0002	
2/25/2019					7.4E-05 (J)
3/4/2019		<0.0002	<0.0002	<0.0002	
6/12/2019					<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.0002
8/21/2019	<0.0002				
10/8/2019					<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	
5/6/2020					<0.0002
8/26/2020					<0.0002
9/22/2020					<0.0002
2/8/2021			<0.0002	<0.0002	
2/9/2021		<0.0002			
2/10/2021	<0.0002				
3/2/2021			<0.0002	<0.0002	<0.0002
3/3/2021		<0.0002			
3/4/2021	<0.0002				
8/20/2021					<0.0002
8/26/2021		<0.0002	<0.0002	<0.0002	
9/3/2021	0.00012 (J)				
2/8/2022	0.00013 (J)				<0.0002
2/10/2022			<0.0002	<0.0002	
2/11/2022		<0.0002			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.014 (J)	0.012 (J)				0.0055 (J)
6/2/2016	<0.01				<0.01	0.0093 (J)	
7/25/2016			0.0098 (J)		<0.01		0.0037 (J)
7/26/2016	<0.01	0.0132				0.0113	
9/13/2016		0.0127	0.01 (J)				
9/14/2016				0.0039 (J)			0.0034 (J)
9/15/2016	<0.01					0.0112	
9/19/2016					<0.01		
11/1/2016		0.0092 (J)			<0.01	0.0099 (J)	0.0025 (J)
11/2/2016	<0.01						
11/4/2016			0.01	0.0077 (J)			
12/15/2016				0.0066 (J)			
1/10/2017	<0.01						
1/11/2017		0.0093 (J)				0.0093 (J)	0.0033 (J)
1/16/2017			0.0086 (J)	0.0056 (J)	<0.01		
2/21/2017					<0.01		
3/1/2017							0.0044 (J)
3/2/2017		0.0099 (J)	0.01			0.0103	
3/3/2017				0.0049 (J)			
3/8/2017	<0.01						
4/26/2017	<0.01				<0.01	0.01	0.0075 (J)
4/27/2017		0.0103	0.0101				
4/28/2017				0.004 (J)			
5/26/2017				0.0029 (J)			
6/27/2017		0.0097 (J)	0.0093 (J)				
6/28/2017				0.0036 (J)		0.0102	0.008 (J)
6/30/2017	<0.01				<0.01		
3/27/2018	<0.01		0.0074 (J)		<0.01		
3/28/2018				0.0038 (J)		0.011	0.0025 (J)
3/29/2018		0.0076 (J)					
6/5/2018		0.0092 (J)					
6/6/2018			0.0073 (J)				
6/7/2018				0.004 (J)		0.011	
6/8/2018	<0.01						0.0041 (J)
6/11/2018					<0.01		
10/1/2018	<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)		0.012	0.0037 (J)
10/2/2018					<0.01		
2/26/2019	<0.01				<0.01		
2/27/2019		0.0087 (J)	0.0078 (J)	0.0041 (J)		0.011	0.0027 (J)
3/28/2019		0.0092 (J)	0.0082 (J)				
3/29/2019	<0.01			0.0041 (J)			
4/1/2019					<0.01	0.012	0.0021 (J)
9/24/2019		0.0072 (J)	0.0074 (J)	0.0054 (J)			
9/25/2019	<0.01				<0.01	0.012	0.0087 (J)
2/10/2020		0.0087 (J)	0.0062 (J)				
2/11/2020				0.0057 (J)			0.003 (J)
2/12/2020	<0.01				<0.01	0.013	
3/18/2020	<0.01		0.0056 (J)				
3/19/2020		0.0088 (J)		0.0046 (J)	<0.01	0.013	0.0043 (J)
9/23/2020		0.008 (J)	0.0059 (J)	0.0071 (J)		0.012	0.01
9/24/2020					<0.01		
9/25/2020	<0.01						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.01			0.0041 (J)		0.014	0.0038 (J)
2/11/2021					<0.01		
2/12/2021		0.008 (J)	0.0056 (J)				
3/1/2021					<0.01		
3/2/2021	<0.01						
3/3/2021		0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013	0.0036 (J)
8/19/2021	<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013	
8/27/2021				0.0048 (J)			0.0099 (J)
2/9/2022		0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013	0.0087 (J)
2/10/2022	<0.01						
2/11/2022					<0.01		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.01	<0.01	0.0011 (J)	<0.01			
6/9/2016					0.0011 (J)	<0.01	<0.01
8/1/2016	<0.01	<0.01	0.0018 (J)	<0.01			
8/2/2016					0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01	<0.01	<0.01	<0.01			
9/21/2016					<0.01	<0.01	<0.01
11/7/2016	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
11/8/2016					<0.01		
1/18/2017	<0.01	<0.01	<0.01		<0.01	<0.01	
1/19/2017				<0.01			<0.01
2/21/2017	<0.01	<0.01				<0.01	
2/22/2017				<0.01	<0.01		<0.01
2/23/2017			<0.01				
5/3/2017		<0.01					
5/5/2017					0.0014 (J)	0.0007 (J)	
5/8/2017	<0.01		0.0011 (J)	<0.01			<0.01
6/30/2017			<0.01	<0.01			
7/5/2017					0.0014 (J)		<0.01
7/7/2017						<0.01	
7/10/2017	<0.01	<0.01					
3/29/2018			<0.01	<0.01			<0.01
3/30/2018	<0.01	<0.01			<0.01	<0.01	
6/11/2018							<0.01
6/12/2018				<0.01	<0.01	<0.01	
6/13/2018	<0.01	<0.01	<0.01				
10/2/2018	<0.01	<0.01	<0.01	<0.01			<0.01
10/3/2018					<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/1/2019			<0.01	<0.01	<0.01		<0.01
4/2/2019	<0.01	<0.01				<0.01	
9/25/2019	<0.01	<0.01					<0.01
9/26/2019			0.0013 (J)	<0.01	0.0013 (J)	<0.01	
2/13/2020	<0.01	<0.01	0.0014 (J)	<0.01	0.0013 (J)	<0.01	<0.01
3/19/2020		<0.01			0.0014 (J)	<0.01	
3/20/2020	<0.01		0.0014 (J)	<0.01			<0.01
9/24/2020	<0.01	<0.01	0.0015 (J)	<0.01	0.0012 (J)	0.00075 (J)	<0.01
2/10/2021	<0.01	<0.01	0.0016 (J)	<0.01			
2/11/2021					0.0012 (J)		
2/12/2021						<0.01	0.00083 (J)
3/2/2021		<0.01					
3/3/2021	<0.01		0.0017 (J)	<0.01	0.0011 (J)	0.00083 (J)	<0.01
8/19/2021		<0.01					
8/20/2021	<0.01		0.0042 (J)	<0.01	0.001 (J)	<0.01	<0.01
2/8/2022				<0.01	0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	<0.01	<0.01	0.0018 (J)				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/1/2021	<0.01						
3/3/2021		<0.01	<0.01	<0.01	<0.01		
3/4/2021						<0.01	0.0014 (J)
8/19/2021	<0.01						
8/26/2021				<0.01			0.0027 (J)
8/27/2021		<0.01	<0.01		<0.01		
9/1/2021						<0.01	
2/8/2022	<0.01						0.0035 (J)
2/9/2022		<0.01	<0.01	<0.01	<0.01	<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.01	0.0035 (J)	<0.01	
7/26/2016		<0.01	0.0042 (J)	<0.01	
8/31/2016					<0.01
9/14/2016		<0.01	0.0041 (J)	<0.01	
11/2/2016		<0.01	0.0039 (J)		
11/4/2016				<0.01	
11/28/2016					<0.01
1/12/2017			0.0041 (J)	<0.01	
1/13/2017		<0.01			
2/22/2017					<0.01
3/6/2017		<0.01			
3/7/2017			0.0047 (J)	<0.01	
5/1/2017		<0.01	0.0045 (J)		
5/2/2017				<0.01	
5/8/2017					<0.01
6/27/2017			0.004 (J)	<0.01	
6/29/2017		<0.01			
7/17/2017					<0.01
10/12/2017	<0.01				
10/16/2017					<0.01
11/20/2017	<0.01				
1/10/2018	<0.01				
2/19/2018	<0.01				<0.01
3/29/2018		<0.01	<0.01	<0.01	
4/3/2018	<0.01				
6/28/2018	<0.01				
8/6/2018					<0.01
8/7/2018	<0.01				
9/24/2018	<0.01				
3/4/2019		<0.01	<0.01	<0.01	
8/19/2019					<0.01
8/21/2019	<0.01				
10/9/2019	<0.01				
2/12/2020	<0.01	<0.01	0.0011 (J)	<0.01	
3/24/2020	<0.01		0.0011 (J)	<0.01	
3/25/2020		<0.01			
8/26/2020					<0.01
9/22/2020		<0.01	0.00099 (J)	<0.01	
9/24/2020	<0.01				
2/8/2021			0.0011 (J)	<0.01	
2/9/2021		<0.01			
2/10/2021	<0.01				
3/2/2021			<0.01	<0.01	
3/3/2021		<0.01			
3/4/2021	<0.01				
8/20/2021					<0.01
8/26/2021		<0.01	0.001 (J)	<0.01	
9/3/2021	<0.01				
2/8/2022	<0.01				<0.01
2/10/2022			0.00096 (J)	<0.01	
2/11/2022		<0.01			

Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		7.46	6.33				7.72
6/2/2016	5.46				5.75	7.84	
7/25/2016			6.21		5.82		7.74
7/26/2016	5.45	7.43				7.88	
9/13/2016		7.44	6.16	7.41			
9/14/2016							7.65
9/15/2016	5.45					7.74	
9/19/2016					5.78 (D)		
11/1/2016		7.24			5.62	7.75	7.7
11/2/2016	5.41						
11/4/2016			6.29	7.12			
12/15/2016				7.24			
1/10/2017	5.37						
1/11/2017		7.3				7.66	7.53
1/16/2017			6.29	7.24	5.72		
2/21/2017					5.67		
3/1/2017							7.42
3/2/2017		7.23	6.28			7.68	
3/3/2017				7.22			
3/8/2017	5.41						
4/26/2017	5.02				5.56	7.45	7.4
4/27/2017		6.99	6.09				
4/28/2017				7.21			
5/26/2017				7.13			
6/27/2017		6.87	6.21				
6/28/2017				7.06		7.65	7.5
6/30/2017	5.39				5.72		
10/3/2017		6.81	5.98	6.99			
10/4/2017					5.87	7.49	7.45
10/5/2017	5.49						
3/27/2018	5.47		6.25		5.83		
3/28/2018				7.3		7.91	7.74
3/29/2018		7.38					
6/5/2018		7.16					
6/6/2018			6.17				
6/7/2018				7.29		7.69	
6/8/2018	5.45						7.64
6/11/2018					5.69		
10/1/2018	5.39	6.8	5.9	7.07		7.39	7.47
10/2/2018					5.39		
2/26/2019	5.46				5.77		
2/27/2019		6.84	5.8	7.27		7.55	7.54
3/28/2019		6.99	6.15				
3/29/2019	5.34			7.06			
4/1/2019					5.62	7.87	7.74
9/24/2019		7.07	6.23	7.01			
9/25/2019	5.19				5.69	7.64	7.47
2/10/2020		7.2	6.1				
2/11/2020				7.38			7.09
2/12/2020	5.48				5.8	7.83	
3/18/2020	5.38		6.19				
3/19/2020		7.03		7.22	6	7.65	7.31

Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		7.15	6.01	7.22		7.57	7.37
9/24/2020					5.67		
9/25/2020	5.44						
2/10/2021	5.35			7.29		7.81	7.58
2/11/2021					5.73		
2/12/2021		7.14	6.21				
3/1/2021					5.78		
3/2/2021	5.49						
3/3/2021		7.2	5.38	7.92		8.39	8.23
8/19/2021	7.32	6.32	6.38			5.34	
8/27/2021				7.14			7.39
2/9/2022		7.12	6.24	5.89		7.97	7.66
2/10/2022	4.5						
2/11/2022					5.59		

Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	5.85	5.24	6.32	6.24			
6/9/2016					6.42	6.39	6.19
8/1/2016	5.83	5.17	6.34	6.12			
8/2/2016					6.43	6.35	6.17
9/20/2016	5.89	5.35	6.36	6.3			
9/21/2016					6.45	6.39	6.2
11/7/2016	5.91	5.35	6.3	6.25		6.36	6.1
11/8/2016					6.37		
1/18/2017	5.84	5.2	6.31		6.27	6.23	
1/19/2017				6.2			6.22
2/21/2017	5.79	5.14				6.42	
2/22/2017				6.14	6.35		6.12
2/23/2017			6.18				
5/3/2017		5.28					
5/5/2017					6.36	6.4	
5/8/2017	5.84		6.24	6.11			6.11
6/30/2017			6.21	6.17			
7/5/2017					6.4		6.17
7/7/2017						6.46	
7/10/2017	5.92	5.25					
10/5/2017					6.43		6.17
10/6/2017				6.13			
10/9/2017			6.26			6.37	
10/10/2017	5.84	5.17					
3/29/2018			6.36	6.25			6.09
3/30/2018	6.19	5.19			6.39	6.35	
6/11/2018							6.17
6/12/2018				6.22	6.42	6.47	
6/13/2018	5.82	5.12	6.28				
10/2/2018	5.81	4.95	5.9	5.99			6.17
10/3/2018					6.21	6.01	
2/27/2019	5.79	5	6.31	6.26	6.32	6.38	6.19
4/1/2019			6.43	6.4	6.3		6.03
4/2/2019	5.87	5.13				6.7	
9/25/2019	5.79	5.24					6.21
9/26/2019			6.3	6.22	6.43	6.47	
2/13/2020	5.93	5.29	6.4	6.31	6.49	6.53	6.32
3/19/2020		5.46			7.01	6.98	
3/20/2020	5.94		6.32	6.18			6.17
9/24/2020	5.86	5.46	6.36	6.27	6.41	6.53	6.2
2/10/2021	5.96	5.18	6.29	6.21			
2/11/2021					6.57		
2/12/2021						6.6	6.24
3/2/2021		5.38					
3/3/2021	5.93		6.43	6.35	6.51	6.61	6.27
8/19/2021		5.12					
8/20/2021	5.78		6.17	6.18	6.23	6.38	6.07
2/8/2022				6.22	6.34	6.3	5.88
2/10/2022	5.84	5.31	6.23				

Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			6.17	5.71			
6/7/2016		5.62			5.77	6.1	
7/27/2016		5.59	6.14	5.46	5.79		
7/28/2016						6.12	
8/30/2016	5.75						
9/16/2016		5.58					
9/19/2016			6.04	5.59	5.73	6.12	
11/2/2016					5.67		
11/3/2016		5.59	5.97	5.39		6.07	
11/14/2016	5.59						
1/11/2017		5.59	6.05	5.48			
1/13/2017					5.79	6.41	
2/24/2017	5.49						
3/1/2017			5.94	5.41			
3/2/2017		5.54					
3/6/2017					5.63	6.34	
4/26/2017			5.99	5.4	5.66	6.32	
5/2/2017		5.47					
5/8/2017	5.58						
6/28/2017			6	5.36			
6/29/2017		5.56			5.85	6.47	
7/11/2017	5.58						
10/3/2017						6.56	
10/4/2017		5.57		5.32	5.83		
10/5/2017			6.11				
10/10/2017	5.49						
10/11/2017							6.4
11/20/2017							6.33
1/11/2018							6.29
2/20/2018							7.22
3/28/2018		5.59	6.1	5.34			
3/29/2018					5.93	6.75	
4/2/2018	6.3 (o)						
4/3/2018							6.87
6/5/2018						6.09	
6/6/2018					5.86		
6/7/2018			5.98				
6/11/2018		5.58		5.28			
6/28/2018							6.18
8/7/2018							6.08
9/19/2018	5.48						
9/24/2018							5.81
9/25/2018		5.59	5.81	4.86	5.84	6.67	
3/5/2019		5.48		5.26	6.07	7.22	
3/6/2019			5.99				
3/27/2019	5.83						5.84
4/2/2019		5.74				6.94	
4/3/2019			6.29	5.47	5.71		
8/20/2019	5.58						
8/21/2019							5.96
9/24/2019						6.87	
9/25/2019		5.49			5.86		

Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/26/2019			6.04	5.2			
10/8/2019	5.59						
10/9/2019							5.81
2/11/2020		5.58	6.07	5.3			
2/12/2020					6	7.13	5.97
3/17/2020	5.57						
3/24/2020		5.57	5.98	5.33	5.86	6.35	
3/25/2020							5.78
8/27/2020	4.88						
9/22/2020	5.46						
9/23/2020		5.58	6.01	5.29			
9/24/2020					5.8	6.7	5.7
2/9/2021			6.12	5.43	5.86	6.95	
2/10/2021							5.8
3/1/2021	5.48						
3/3/2021		5.52	5.89	5.31	5.89		
3/4/2021						6.8	5.54
8/19/2021	5.5						
8/26/2021				4.4			6.91
8/27/2021		5.27	5.4		5.57		
9/1/2021						6.65	
2/8/2022	5.4						5.78
2/9/2022		5.53	5.98	5.28	5.91	6.84	

Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		6.36	7.67	5.75	
7/26/2016		6.22	7.66	5.72	
9/14/2016		6.23	7.6	5.74	
11/2/2016		6.08	7.35		
11/4/2016				5.61	
11/28/2016					6.23
1/12/2017			7.49	5.71	
1/13/2017		6.19			
2/22/2017					6.21
3/6/2017		6.2			
3/7/2017			7.43	5.66	
5/1/2017		6.21	7.22		
5/2/2017				5.65	
5/8/2017					6.12
6/27/2017			7.32	5.7	
6/29/2017		6.21			
7/17/2017					6.03
10/3/2017			7.48	5.79	
10/5/2017		6.16			
10/12/2017	5.43				
10/16/2017					6.12
11/20/2017	5.1				
1/10/2018	4.97				
2/19/2018	5.6				6.13
3/29/2018		6.09	7.02	5.63	
4/3/2018	5.84				
6/6/2018			7.43		
6/7/2018		6.12		5.63	
6/28/2018	5.24				
8/6/2018					6.01
8/7/2018	5.18				
9/24/2018	5.14				
9/26/2018		5.84	7.13	5.63	
2/25/2019					6.51
3/4/2019		6.18	7.46	5.75	
3/26/2019	5.3				
4/3/2019		6.43	7.11	5.63	
6/12/2019					6.3
8/19/2019					6.23

Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	5.26				
9/24/2019			6.93	5.6	
9/25/2019		6.2			
10/8/2019					6.28
10/9/2019	5.22				
2/12/2020	5.3	6.15	7.52	5.83	
3/17/2020					6.14
3/24/2020	5.29		7.34	5.81	
3/25/2020		6.26			
5/6/2020					6.24
8/26/2020					5.67
9/22/2020		5.8	7.19	5.99	5.78
9/24/2020	5.43				
2/8/2021				5.67	
2/9/2021		6.06			
2/10/2021	5.19				
3/2/2021			7.15	5.63	5.42
3/3/2021		6.21			
3/4/2021	5.23				
8/20/2021					5.86
8/26/2021		5.82	7.16	5.51	
9/3/2021	4.75				
2/8/2022	5.26				5.83
2/10/2022			6.99	5.14	
2/11/2022		5.95			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	<0.005				<0.005
6/2/2016	0.0011 (J)				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	0.0016 (J)	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	0.0014 (J)					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	0.0012 (J)						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017							<0.005
3/2/2017		<0.005	<0.005			<0.005	
3/3/2017				<0.005			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		<0.005	<0.005				
4/28/2017				<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
2/26/2019	<0.005				<0.005		
2/27/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28/2019		<0.005	<0.005				
3/29/2019	0.0019 (J)			<0.005			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		<0.005	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		<0.005	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		<0.005				
3/19/2020		<0.005		<0.005	<0.005	<0.005	<0.005
9/23/2020		<0.005	<0.005	<0.005		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<0.005	<0.005		<0.005	<0.005
2/10/2022	0.0014 (J)						
2/11/2022				<0.005			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0016	0.0003 (J)	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0023 (J)	0.0014 (J)	<0.005	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	0.0022 (J)	<0.005	<0.005	<0.005			
9/21/2016					<0.005	0.001 (J)	<0.005
11/7/2016	0.0017 (J)	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	0.002 (J)	0.0012 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	0.0018 (J)	0.0014 (J)				<0.005	
2/22/2017				<0.005	0.0012 (J)		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	0.002 (J)	<0.005					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	0.0017 (J)	<0.005				<0.005	
9/25/2019	0.0019 (J)	<0.005					<0.005
9/26/2019			<0.005	<0.005	<0.005	<0.005	
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/19/2020		<0.005			<0.005	<0.005	
3/20/2020	0.0019 (J)		<0.005	<0.005			<0.005
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	0.0026 (J)	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	0.0034 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	0.0026 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	<0.005			
6/7/2016		0.001 (J)			<0.005	0.00048 (J)	
7/27/2016		0.0012 (J)	<0.005	<0.005	<0.005		
7/28/2016						<0.005	
8/30/2016	0.0017 (J)						
9/16/2016		0.0015 (J)		<0.005			
9/19/2016			<0.005		<0.005	0.0014 (J)	
11/2/2016					<0.005		
11/3/2016		0.0015 (J)	<0.005	<0.005		<0.005	
11/14/2016	<0.005						
1/11/2017		0.0014 (J)	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	0.0011 (J)						
3/1/2017			<0.005	<0.005			
3/2/2017		0.0017 (J)					
3/6/2017					<0.005	<0.005	
4/26/2017			<0.005	<0.005	<0.005	<0.005	
5/2/2017		<0.005					
5/8/2017	<0.005						
6/28/2017			<0.005	<0.005			
6/29/2017		<0.005			<0.005	<0.005	
7/11/2017	<0.005						
10/10/2017	<0.005						
10/11/2017							<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	<0.005			
3/29/2018					<0.005	<0.005	
4/2/2018	<0.005						
4/3/2018							<0.005
6/5/2018						<0.005	
6/6/2018					<0.005		
6/7/2018			<0.005				
6/11/2018		<0.005		<0.005			
6/28/2018							<0.005
8/7/2018							<0.005
9/19/2018	<0.005						
9/24/2018							0.0015 (J)
9/25/2018		<0.005	<0.005	<0.005	<0.005	<0.005	
3/5/2019		<0.005		<0.005	<0.005	<0.005	
3/6/2019			<0.005				
4/2/2019		<0.005				<0.005	
4/3/2019			<0.005	<0.005	<0.005		
8/20/2019	<0.005						
8/21/2019							<0.005
9/24/2019						<0.005	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/9/2019							<0.005
2/11/2020		<0.005	<0.005	<0.005			
2/12/2020					<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/24/2020		<0.005	<0.005	<0.005	<0.005	<0.005	
3/25/2020							<0.005
8/27/2020	<0.005						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	<0.005	<0.005
2/9/2021			<0.005	<0.005	<0.005	<0.005	
2/10/2021							<0.005
3/3/2021		<0.005	<0.005	<0.005	<0.005		
3/4/2021						<0.005	<0.005
8/19/2021	<0.005						
8/26/2021				<0.005			<0.005
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						<0.005	
2/8/2022	<0.005						<0.005
2/9/2022		<0.005	<0.005	<0.005	<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.005	<0.005	<0.005	
7/26/2016		0.0009 (J)	<0.005	0.0009 (J)	
8/31/2016					<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<0.005
3/6/2017		<0.005			
3/7/2017			<0.005	<0.005	
5/1/2017		<0.005	<0.005		
5/2/2017				<0.005	
5/8/2017					<0.005
6/27/2017			<0.005	<0.005	
6/29/2017		<0.005			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017					<0.005
11/20/2017	0.0042 (J)				
1/10/2018	0.0043 (J)				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<0.005	
4/3/2018	<0.005				
6/6/2018			<0.005		
6/7/2018		<0.005		<0.005	
6/28/2018	0.0032 (J)				
8/6/2018					<0.005
8/7/2018	0.0031 (J)				
9/24/2018	0.0026 (J)				
9/26/2018		<0.005	<0.005	<0.005	
2/25/2019					<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		<0.005	<0.005	<0.005	
6/12/2019					<0.005
8/19/2019					<0.005
8/21/2019	0.0024 (J)				
9/24/2019			<0.005	<0.005	
9/25/2019		<0.005			
10/8/2019					<0.005
10/9/2019	0.0026 (J)				
2/12/2020	0.002 (J)	<0.005	<0.005	<0.005	
3/17/2020					<0.005
3/24/2020	0.002 (J)		<0.005	<0.005	
3/25/2020		<0.005			
8/26/2020					<0.005
9/22/2020		<0.005	<0.005	<0.005	<0.005
9/24/2020	0.0016 (J)				
2/8/2021			<0.005	<0.005	
2/9/2021		<0.005			
2/10/2021	<0.005				
3/2/2021			<0.005	<0.005	<0.005
3/3/2021		0.0019 (J)			
3/4/2021	<0.005				
8/20/2021					<0.005
8/26/2021		<0.005	<0.005	<0.005	
9/3/2021	<0.005				
2/8/2022	0.0014 (J)				<0.005
2/10/2022			<0.005	<0.005	
2/11/2022		<0.005			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		5	4.2				12
6/2/2016	6.6				1.3	5.8	
7/25/2016			3.7		1.2		8.4
7/26/2016	6.1	5.4				6.7	
9/13/2016		2.9	5.2				
9/14/2016				9.4			8.6
9/15/2016	6.1					6	
9/19/2016					1.2		
11/1/2016		3.9			1.3	4.9	8.9
11/2/2016	6.3						
11/4/2016			5	13			
12/15/2016				1.8			
1/10/2017	5.9						
1/11/2017		3.7				4.5	8.6
1/16/2017			7.9	11	<1		
2/21/2017					1.4		
3/1/2017							9.3
3/2/2017		4.6	7.4			4.4	
3/3/2017				8.8			
3/8/2017	7						
4/26/2017	7				1.4	5.1	11
4/27/2017		5.2	7.4				
4/28/2017				10			
5/26/2017				12			
6/27/2017		5.9	6.4				
6/28/2017				11		5.4	12
6/30/2017	6.5				<1		
10/3/2017		6.6	5.9	7.9			
10/4/2017					1.4	6.2	12
10/5/2017	7.9						
6/5/2018		6.4					
6/6/2018			4.4				
6/7/2018				8.8		6.7	
6/8/2018	6.4						9.6
6/11/2018					1.1		
10/1/2018	6.8	5.6	4	9.1		7.1	9.1
10/2/2018					1		
3/28/2019		8	4.3				
3/29/2019	7.3			9			
4/1/2019					0.96 (J)	7.2	8.5
9/24/2019		5.3	4.3	9.1			
9/25/2019	6.6				0.81 (J)	7	13.8
3/18/2020	8.1		5.3				
3/19/2020		10		12.4	1.6	9	12.9
9/23/2020		8.1	3.4	11.8		6.9	16.8
9/24/2020					0.69 (J)		
9/25/2020	6.1						
3/1/2021					0.88 (J)		
3/2/2021	6						
3/3/2021		9	4.4	10.6		7	9.6
8/19/2021	6.7	8.9	4.9		1	7.5	
8/27/2021				16.7			18.2

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		9.3	5.1	18		7.2	16
2/10/2022	6.2						
2/11/2022				2.8			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	81	110	3.2	26			
6/9/2016					8.7	5.2	33
8/1/2016	75	96	3.6	27			
8/2/2016					7.5	4.5	32
9/20/2016	78	100	5.6	21			
9/21/2016					8	<1 (*)	32
11/7/2016	81	100	5.4	24		4.3	33
11/8/2016					8.3		
1/18/2017	95	100	3.5		8	2.7	
1/19/2017				25			32
2/21/2017	80	96				3	
2/22/2017				24	8.2		31
2/23/2017			4.9				
5/3/2017		100					
5/5/2017					<1 (*)	<1 (*)	
5/8/2017	84		3.9	23			32
6/30/2017			5	23			
7/5/2017					8.1		31
7/7/2017						2.7	
7/10/2017	84	100					
10/5/2017					8.6		31
10/6/2017				23			
10/9/2017			5.1			2.9	
10/10/2017	82	97					
6/11/2018							30.6
6/12/2018				18.1	8.2	2.9	
6/13/2018	76.5	93.3	6.1				
10/2/2018	83.9	99	6.1	20.2			30.8
10/3/2018					8	2.1	
4/1/2019			4.1	18.3	8.2		30.4
4/2/2019	77.6	94.5				2.4	
9/25/2019	80.1	97					30
9/26/2019			4.2	18.2	7.9	1.6	
3/19/2020		99.4			9.1	1.7	
3/20/2020	84.7		5.2	21.1			33
9/24/2020	85.6	92.3	3	16.6	7.2	0.99 (J)	26.2
3/2/2021		92.7					
3/3/2021	89.3		2.6	451	8.6	4.9	26.6
8/19/2021		86.5					
8/20/2021	84		2.9	18	8.9	5.4	24.7
2/8/2022				16.3	8.1	10.5	22.9
2/10/2022	81.8	86.5	2.4				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			1.2	1.8			
6/7/2016		4.4			<1	5.2	
7/27/2016		4.7	1.7	1.9	0.08 (J)		
7/28/2016						5.1	
8/30/2016	160						
9/16/2016		4.8		1.7			
9/19/2016			1.8		0.08 (J)	4.8	
11/2/2016					0.1 (J)		
11/3/2016		5.3	0.69 (J)	1.9		5	
11/14/2016	150						
1/11/2017		5.2	<1	1.7			
1/13/2017					<1	4.3	
2/24/2017	120						
3/1/2017			1.8	<1			
3/2/2017		5					
3/6/2017					<1	4.5	
4/26/2017			1.6	1.9	<1	4.9	
5/2/2017		5					
5/8/2017	120						
6/28/2017			<1	<1			
6/29/2017		5.2			<1	5.5	
7/11/2017	110						
10/3/2017						5.8	
10/4/2017		5.3		1.7	<1		
10/5/2017			1.6				
10/10/2017	93						
10/11/2017							20
11/20/2017							24
1/11/2018							23
2/20/2018							20.6
4/2/2018	88.8						
4/3/2018							24.5
6/5/2018						6.1	
6/6/2018					0.049 (J)		
6/7/2018			0.68 (J)				
6/11/2018		5.2		0.95 (J)			
6/28/2018							22
8/7/2018							20.7
9/19/2018	75						
9/24/2018							21.2
9/25/2018		6.1	1	1.5	0.13 (J)	7	
3/27/2019	65.9						17.7
4/2/2019		5.1				3.8	
4/3/2019			0.82 (J)	1.3	0.12 (J)		
9/24/2019						1	
9/25/2019		5.5			<1		
9/26/2019			0.64 (J)	1			
10/8/2019	52.3						
10/9/2019							15
3/17/2020	71.6						
3/24/2020		5.4	<1	0.99 (J)	<1	3	
3/25/2020							14.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	51.5						
9/23/2020		5.1	0.53 (J)	1.1			
9/24/2020					<1	3.6	11.7
3/1/2021	51.6						
3/3/2021		5.2	<1	1	<1		
3/4/2021						4.5	12
8/19/2021	52.6						
8/26/2021				1.2			19.2
8/27/2021		5.3	0.59 (J)		<1		
9/1/2021						5	
2/8/2022	50.9						14.6
2/9/2022		4.8	0.51 (J)	1.1	<1	3.9	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		8	20	1.9	
7/26/2016		7.7	20	1.8	
8/31/2016					29
9/14/2016		7.5	19	1.8	
11/2/2016		8.2	20		
11/4/2016				2	
11/28/2016					36
1/12/2017			19	1.9	
1/13/2017		8.1			
2/22/2017					43
3/6/2017		8			
3/7/2017			20	2.1	
5/1/2017		8.4	20		
5/2/2017				2	
5/8/2017					60
6/27/2017			18	2.1	
6/29/2017		9.2			
7/17/2017					63
10/3/2017			16	2.3	
10/5/2017		9.6			
10/12/2017	17				
10/16/2017					62
11/20/2017	71				
1/10/2018	66				
2/19/2018	57.2				64.6
4/3/2018	49.4				
6/6/2018			8.3		
6/7/2018		8.5		2	
6/28/2018	43.8				
8/6/2018					42.1
8/7/2018	40.5				
9/24/2018	39.7				
9/26/2018		10.2	7.9	2.3	
2/25/2019					42.1
3/26/2019	34.3				
4/3/2019		8.5	7	2.1	
6/12/2019					83.4
9/24/2019			5.5	2.4	
9/25/2019		8.5			
10/8/2019					128
10/9/2019	27.9				
3/17/2020					98.6
3/24/2020	25.2		5.9	2.1	
3/25/2020		8.8			
9/22/2020		8.2	5.5	2.1	145
9/24/2020	22.9				
3/2/2021			2.6	2.3	156
3/3/2021		7.8			
3/4/2021	21.5				
8/20/2021					121
8/26/2021		8.5	6	2.4	
9/3/2021	21.3				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	17.9				107
2/10/2022			4.9	2.4	
2/11/2022		7.7			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.001	<0.001				<0.001
6/2/2016	<0.001				<0.001	<0.001	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		<0.001	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					<0.001	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		<0.001	<0.001			<0.001	
3/3/2017				<0.001			
3/8/2017	<0.001						
4/26/2017	<0.001				<0.001	<0.001	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		<0.001	5.5E-05 (J)				
2/11/2020				<0.001			<0.001
2/12/2020	8.9E-05 (J)				<0.001	<0.001	
3/18/2020	<0.001		<0.001				
3/19/2020		<0.001		<0.001	<0.001	<0.001	<0.001
9/23/2020		<0.001	<0.001	<0.001		<0.001	0.00016 (J)
9/24/2020					<0.001		
9/25/2020	<0.001						
2/10/2021	<0.001			<0.001		<0.001	<0.001
2/11/2021					<0.001		
2/12/2021		<0.001	<0.001				
2/9/2022		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2022	<0.001						
2/11/2022					<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001	0.00012 (J)			
6/9/2016					<0.001	<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001	0.0001 (J)			
8/2/2016					<0.001	<0.001	<0.001
9/20/2016	<0.001	<0.001	<0.001	<0.001			
9/21/2016					<0.001	<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
11/8/2016					<0.001		
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			<0.001
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		<0.001
2/23/2017			<0.001				
5/3/2017		<0.001					
5/5/2017					<0.001	<0.001	
5/8/2017	<0.001		<0.001	0.0001 (J)			<0.001
6/30/2017			<0.001	0.0001 (J)			
7/5/2017					<0.001		<0.001
7/7/2017						<0.001	
7/10/2017	<0.001	<0.001					
3/29/2018			<0.001	<0.001			<0.001
3/30/2018	<0.001	<0.001			<0.001	<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	5.7E-05 (J)	<0.001	0.0001 (J)	<0.001	<0.001	<0.001
3/19/2020		5.5E-05 (J)			<0.001	<0.001	
3/20/2020	<0.001		<0.001	0.00011 (J)			<0.001
9/24/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2021	<0.001	<0.001	<0.001	<0.001			
2/11/2021					<0.001		
2/12/2021						<0.001	<0.001
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:23 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.001	<0.001			
6/7/2016		<0.001			<0.001	<0.001	
7/27/2016		<0.001	<0.001	<0.001	<0.001		
7/28/2016						<0.001	
8/30/2016	<0.001						
9/16/2016		<0.001		<0.001			
9/19/2016			<0.001		<0.001	<0.001	
11/2/2016					<0.001		
11/3/2016		<0.001	<0.001	<0.001		<0.001	
11/14/2016	<0.001						
1/11/2017		<0.001	<0.001	<0.001			
1/13/2017					<0.001	<0.001	
2/24/2017	<0.001						
3/1/2017			<0.001	<0.001			
3/2/2017		<0.001					
3/6/2017					<0.001	<0.001	
4/26/2017			<0.001	<0.001	<0.001	<0.001	
5/2/2017		<0.001					
5/8/2017	<0.001						
6/28/2017			<0.001	<0.001			
6/29/2017		<0.001			<0.001	<0.001	
7/11/2017	<0.001						
10/10/2017	<0.001						
10/11/2017							<0.001
11/20/2017							<0.001
1/11/2018							<0.001
2/20/2018							<0.001
3/28/2018		<0.001	<0.001	<0.001			
3/29/2018					<0.001	<0.001	
4/2/2018	<0.001						
4/3/2018							<0.001
6/28/2018							<0.001
8/7/2018							<0.001
9/19/2018	<0.001						
9/24/2018							<0.001
9/25/2018						<0.001	
3/5/2019		<0.001		<0.001	<0.001	<0.001	
3/6/2019			<0.001				
4/2/2019		<0.001				<0.001	
4/3/2019			<0.001	<0.001	<0.001		
8/20/2019	5.8E-05 (J)						
8/21/2019							<0.001
9/24/2019						<0.001	
9/25/2019		<0.001			<0.001		
9/26/2019			<0.001	<0.001			
10/8/2019	8.4E-05 (J)						
2/11/2020		<0.001	<0.001	<0.001			
2/12/2020					<0.001	<0.001	<0.001
3/17/2020	<0.001						
3/24/2020		<0.001	<0.001	<0.001	<0.001	<0.001	
3/25/2020							<0.001
8/27/2020	<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/23/2020		<0.001	<0.001	<0.001			
9/24/2020					<0.001	<0.001	<0.001
2/9/2021			<0.001	<0.001	<0.001	<0.001	
2/10/2021							<0.001
8/19/2021	<0.001						
2/8/2022	<0.001						<0.001
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.001	<0.001	<0.001	
7/26/2016		<0.001	<0.001	<0.001	
8/31/2016					<0.001
9/14/2016		<0.001	<0.001	<0.001	
11/2/2016		<0.001	<0.001		
11/4/2016				<0.001	
11/28/2016					<0.001
1/12/2017			<0.001	<0.001	
1/13/2017		<0.001			
2/22/2017					<0.001
3/6/2017		<0.001			
3/7/2017			<0.001	<0.001	
5/1/2017		<0.001	<0.001		
5/2/2017				<0.001	
5/8/2017					6E-05 (J)
6/27/2017			<0.001	<0.001	
6/29/2017		<0.001			
7/17/2017					6E-05 (J)
10/12/2017	<0.001				
10/16/2017					7E-05 (J)
11/20/2017	<0.001				
1/10/2018	<0.001				
2/19/2018	<0.001				<0.001
3/29/2018		<0.001	<0.001	<0.001	
4/3/2018	<0.001				
6/28/2018	<0.001				
8/6/2018					<0.001
8/7/2018	<0.001				
9/24/2018	<0.001				
2/25/2019					<0.001
3/4/2019		<0.001	<0.001	<0.001	
4/3/2019		<0.001	<0.001	<0.001	
6/12/2019					<0.001
8/19/2019					5.5E-05 (J)

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	<0.001				
9/24/2019			<0.001	<0.001	
9/25/2019		<0.001			
10/8/2019					<0.001
2/12/2020	<0.001	<0.001	<0.001	<0.001	
3/17/2020					<0.001
3/24/2020	<0.001		<0.001	<0.001	
3/25/2020		<0.001			
8/26/2020					<0.001
9/22/2020		<0.001	<0.001	<0.001	<0.001
9/24/2020	<0.001				
2/8/2021			<0.001	<0.001	
2/9/2021		<0.001			
2/10/2021	<0.001				
3/2/2021					<0.001
8/20/2021					<0.001
2/8/2022	<0.001				<0.001
2/10/2022			<0.001	<0.001	
2/11/2022		<0.001			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		120	54				150
6/2/2016	46				36	130	
7/25/2016			48		50		135
7/26/2016	54	94				141	
9/13/2016		105	67				
9/14/2016				152			127
9/15/2016	54					153	
9/19/2016					35		
11/1/2016		44			<25	92	75
11/2/2016	71						
11/4/2016			60	148			
12/15/2016				191			
1/10/2017	45						
1/11/2017		107				159	148
1/16/2017			65	180	47		
2/21/2017					<25		
3/1/2017							182
3/2/2017		98	61			117	
3/3/2017				156			
3/8/2017	178						
4/26/2017	52				55	181	92
4/27/2017		116	31				
4/28/2017				130			
5/26/2017				223			
6/27/2017		89	42				
6/28/2017				166		169	126
6/30/2017	45				42		
10/3/2017		119	58	153			
10/4/2017					31	141	147
10/5/2017	40						
6/5/2018		127					
6/6/2018			96				
6/7/2018				146		95	
6/8/2018	114						158
6/11/2018					59		
10/1/2018	50	117	60	155		165	138
10/2/2018					57		
3/28/2019		87	87				
3/29/2019	63			150			
4/1/2019					54	149	19 (J)
9/24/2019		124	54	146			
9/25/2019	64				51	157	159
3/18/2020	57		35				
3/19/2020		116		148	47	146	148
9/23/2020		108	15	161		157	155
9/24/2020					51		
9/25/2020	54						
3/1/2021					23		
3/2/2021	67						
3/3/2021		99	39	138		137	111
8/19/2021	54	105	44		50	144	
8/27/2021				150			155

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		105	57	156		154	145
2/10/2022	56						
2/11/2022				66			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	220	200	190	210			
6/9/2016					240	210	150
8/1/2016	211	191	191	209			
8/2/2016					226	202	155
9/20/2016	217	213	205	224			
9/21/2016					214	216	138
11/7/2016	301	284	264	291		399	291
11/8/2016					229		
1/18/2017	265 (D)	158 (D)	167 (D)		243 (D)	215 (D)	
1/19/2017				215 (D)			145 (D)
2/21/2017	158	137				198	
2/22/2017				262	310		185
2/23/2017			253				
5/3/2017		269					
5/5/2017					289	347	
5/8/2017	207		174	187			114
6/30/2017			193	209			
7/5/2017					217		136
7/7/2017						236	
7/10/2017	219	183					
10/5/2017					221		139
10/6/2017				183			
10/9/2017			185			204	
10/10/2017	194	179					
6/11/2018							156
6/12/2018				208	234	243	
6/13/2018	228	196	219				
10/2/2018	227	191	227	206			154
10/3/2018					232	237	
4/1/2019			198	221	238		147
4/2/2019	223	224				<25	
9/25/2019	225	190					162
9/26/2019			198	225	241	239	
3/19/2020		194			212	202	
3/20/2020	211		195	182			137
9/24/2020	212	171	186	185	209	226	133
3/2/2021		154					
3/3/2021	205		173	178	184	217	110
8/19/2021		176					
8/20/2021	224		196	169	194	192	110
2/8/2022				159	206	216	120
2/10/2022	207	168	190				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			120	58			
6/7/2016		28			38	60	
7/27/2016		74	94	35	74		
7/28/2016						81	
8/30/2016	319						
9/16/2016		67		35			
9/19/2016			92		45	68	
11/2/2016					53		
11/3/2016		41	104	48		61	
11/14/2016	280						
1/11/2017		104	133	95			
1/13/2017					46	76	
2/24/2017	162						
3/1/2017			119	79			
3/2/2017		77					
3/6/2017					164	167	
4/26/2017			162	36	34	50	
5/2/2017		142					
5/8/2017	194						
6/28/2017			98	45			
6/29/2017		53			68	94	
7/11/2017	193						
10/3/2017						149	
10/4/2017		61		45	54		
10/5/2017			104				
10/10/2017	175						
10/11/2017							68
11/20/2017							139
1/11/2018							153
2/20/2018							87
4/2/2018	192						
4/3/2018							85
6/5/2018						109	
6/6/2018					79		
6/7/2018			68				
6/11/2018		70		74			
6/28/2018							88
8/7/2018							89
9/19/2018	186						
9/24/2018							82
9/25/2018		86	109	63	73	122	
3/27/2019	170						75
4/2/2019		72				134	
4/3/2019			89	63	57		
9/24/2019						157	
9/25/2019		81			75		
9/26/2019			126	72			
10/8/2019	172						
10/9/2019							119
3/17/2020	165						
3/24/2020		71	91	59	76	117	
3/25/2020							158

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	141						
9/23/2020		99	103	81			
9/24/2020					69	113	170
3/1/2021	145						
3/3/2021		57	95	37	53		
3/4/2021						110	168
8/19/2021	134						
8/26/2021				31			249
8/27/2021		93	112		67		
9/1/2021						137	
2/8/2022	151						248
2/9/2022		81	103	60	72	131	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 1:23 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		96	160	66	
7/26/2016		92	177	78	
8/31/2016					209
9/14/2016		102	187	73	
11/2/2016		115	181		
11/4/2016				75	
11/28/2016					102
1/12/2017			202	86	
1/13/2017		67			
2/22/2017					164
3/6/2017		159			
3/7/2017			257	108	
5/1/2017		107	165		
5/2/2017				103	
5/8/2017					145
6/27/2017			189	73	
6/29/2017		79			
7/17/2017					185
10/3/2017			170	89	
10/5/2017		95			
10/12/2017	74				
10/16/2017					218
11/20/2017	179				
1/10/2018	140				
2/19/2018	119				173
4/3/2018	106				
6/6/2018			151		
6/7/2018		90		142	
6/28/2018	112				
8/6/2018					158
8/7/2018	103				
9/24/2018	107				
9/26/2018		116	144	86	
2/25/2019					92
3/26/2019	90				
4/3/2019		111	142	83	
6/12/2019					226
9/24/2019			129	79	
9/25/2019		117			
10/8/2019					276
10/9/2019	98				
3/17/2020					185
3/24/2020	84		139	68	
3/25/2020		146			
9/22/2020		83	104	75	281
9/24/2020	77				
3/2/2021			52	67	296
3/3/2021		80			
3/4/2021	57				
8/20/2021					254
8/26/2021		93	123	86	
9/3/2021	88				

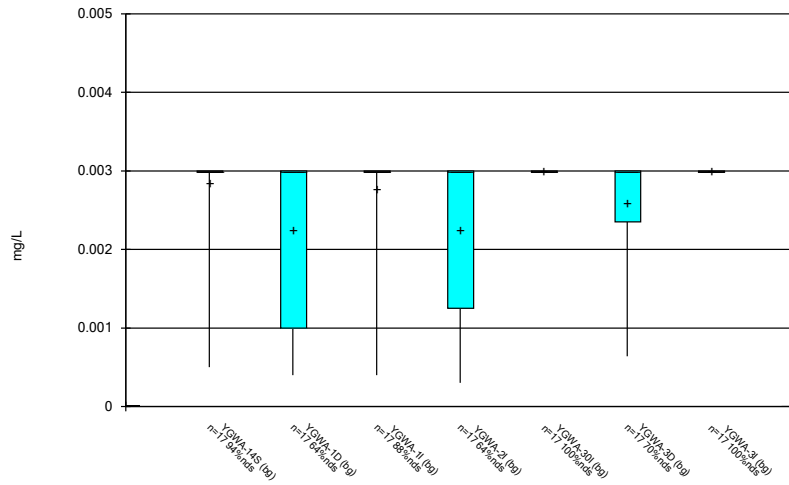
Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2022 1:23 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	93				283
2/10/2022			127	77	
2/11/2022		102			

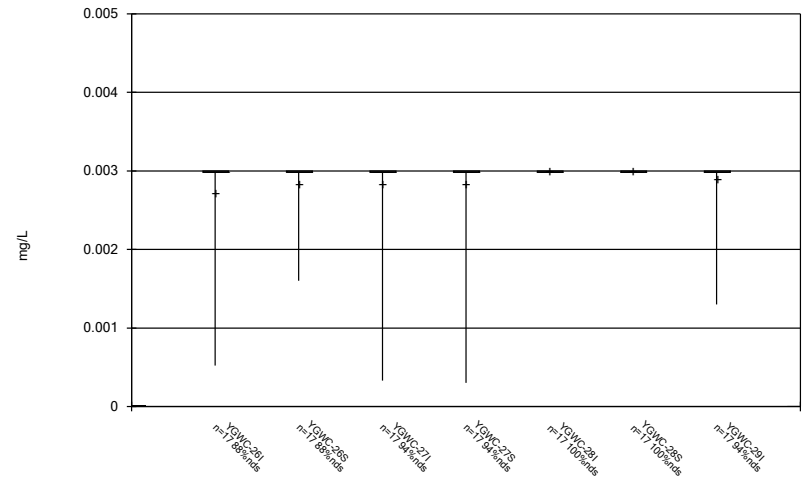
FIGURE B.

Box & Whiskers Plot



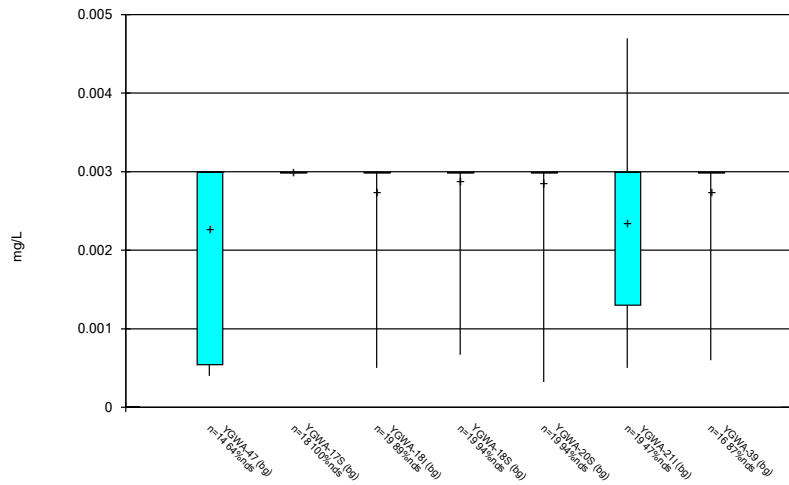
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



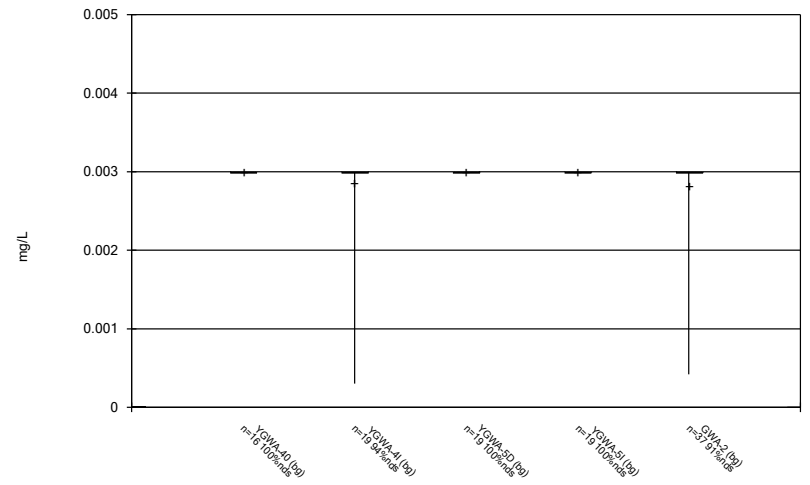
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



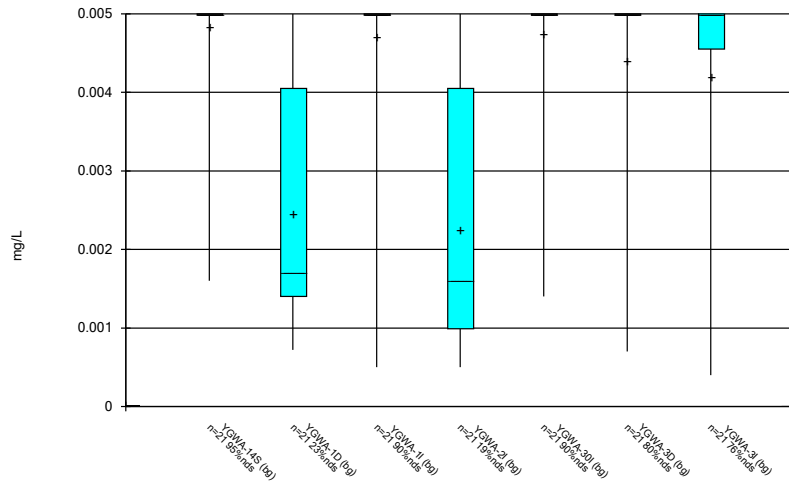
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Box & Whiskers Plot



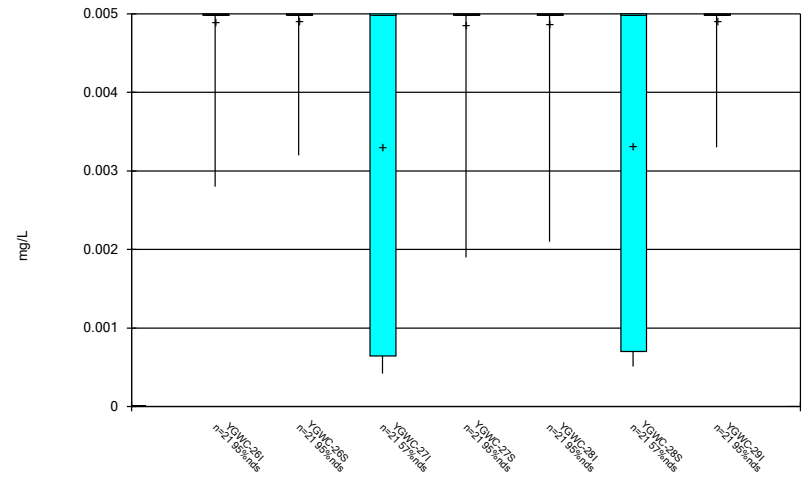
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Box & Whiskers Plot



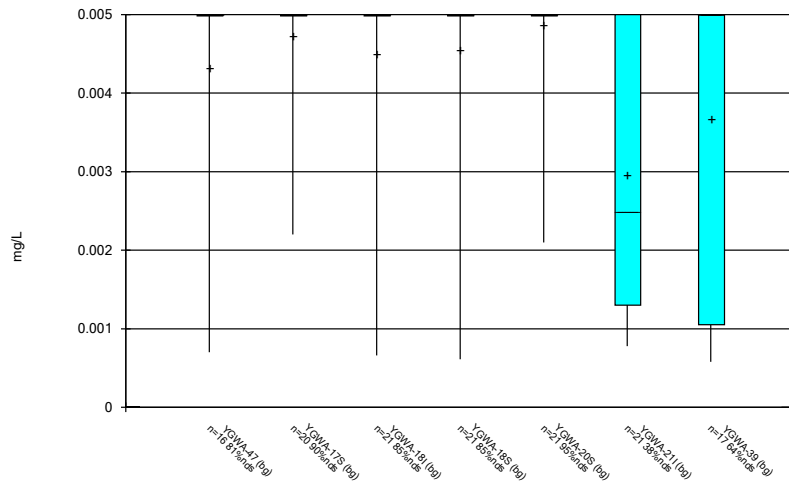
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Box & Whiskers Plot



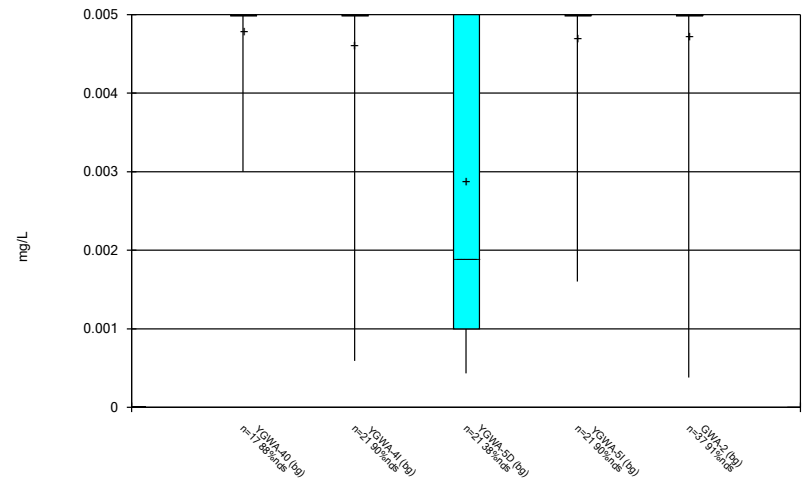
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Box & Whiskers Plot



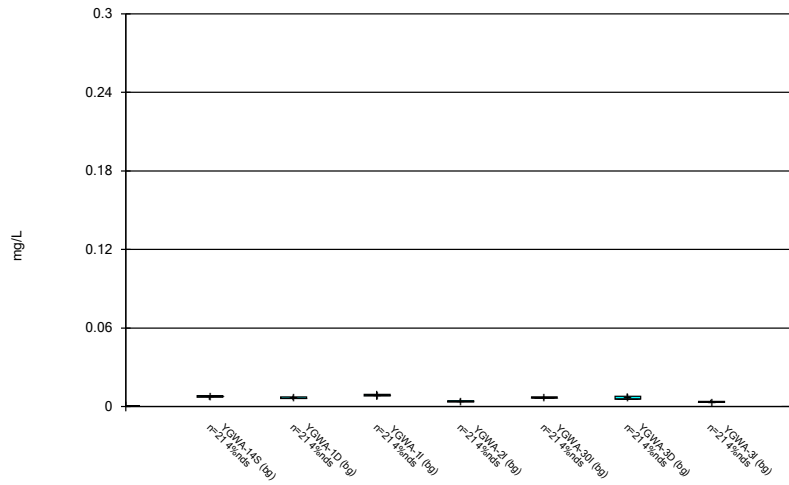
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Box & Whiskers Plot



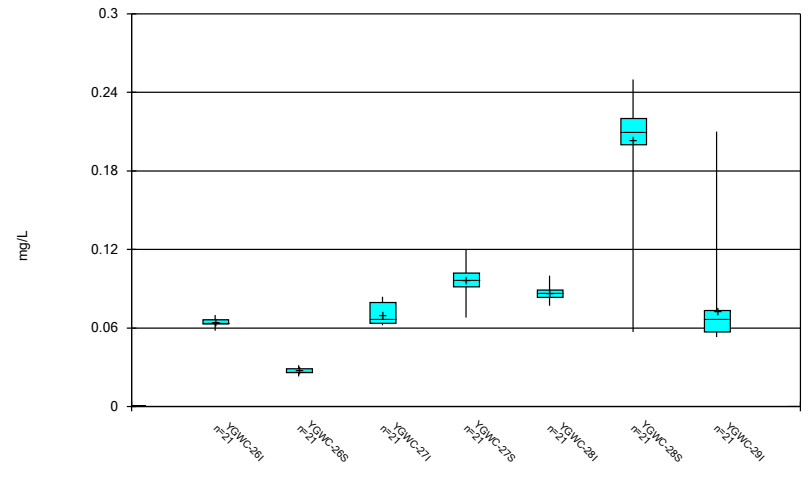
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Box & Whiskers Plot



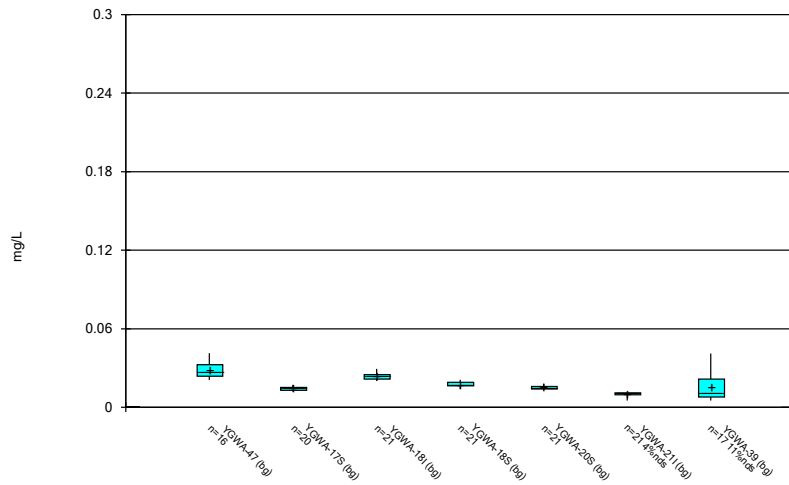
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Box & Whiskers Plot



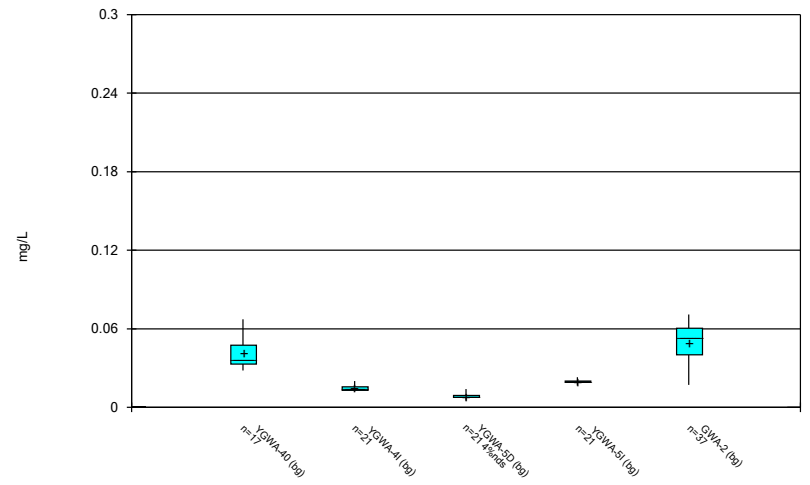
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Box & Whiskers Plot



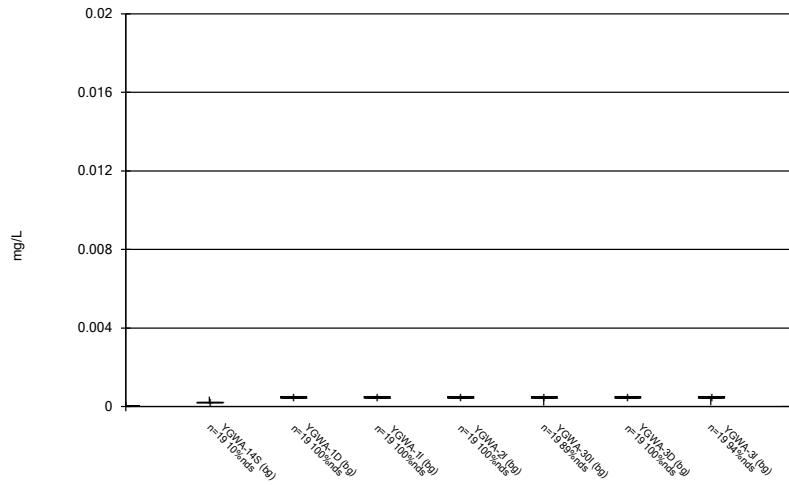
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Box & Whiskers Plot



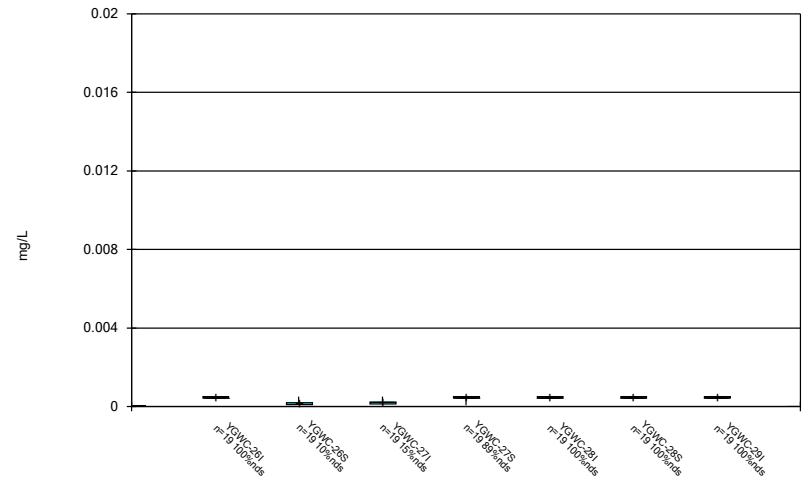
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Box & Whiskers Plot



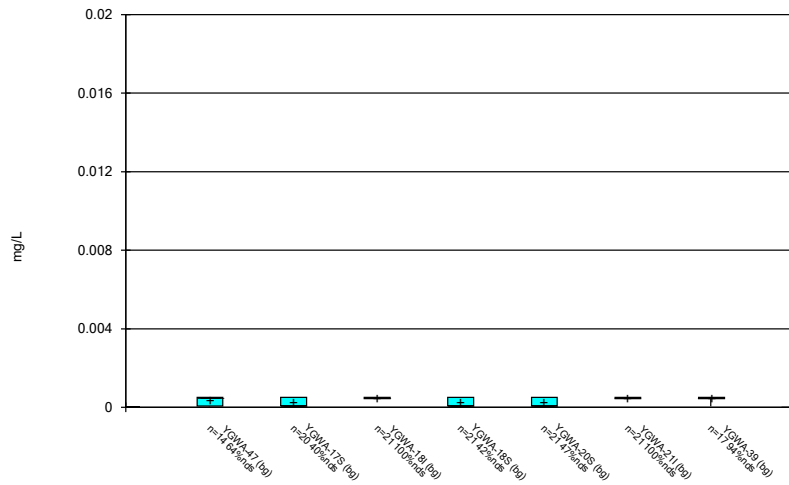
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Box & Whiskers Plot



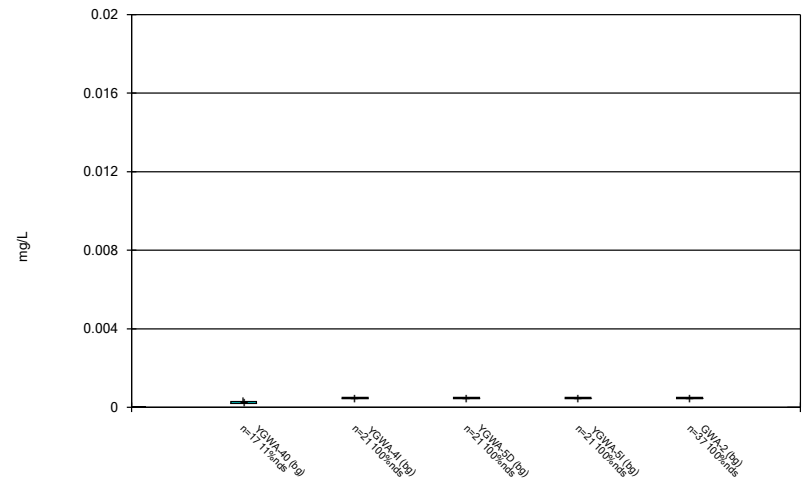
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Box & Whiskers Plot



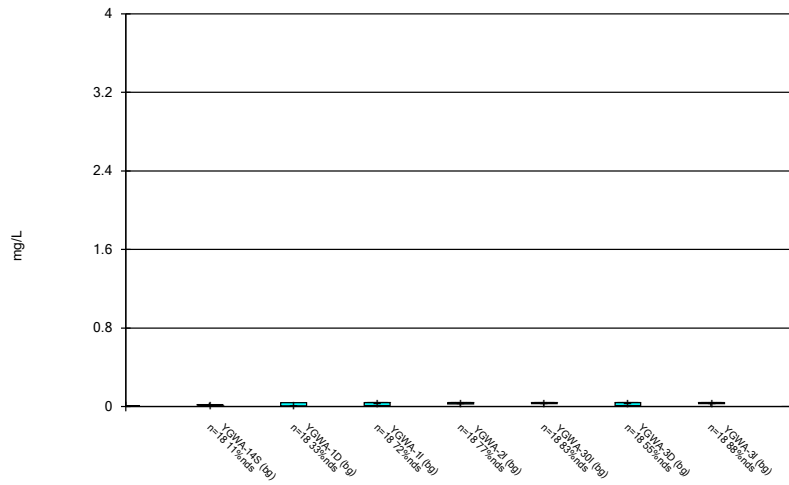
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Box & Whiskers Plot



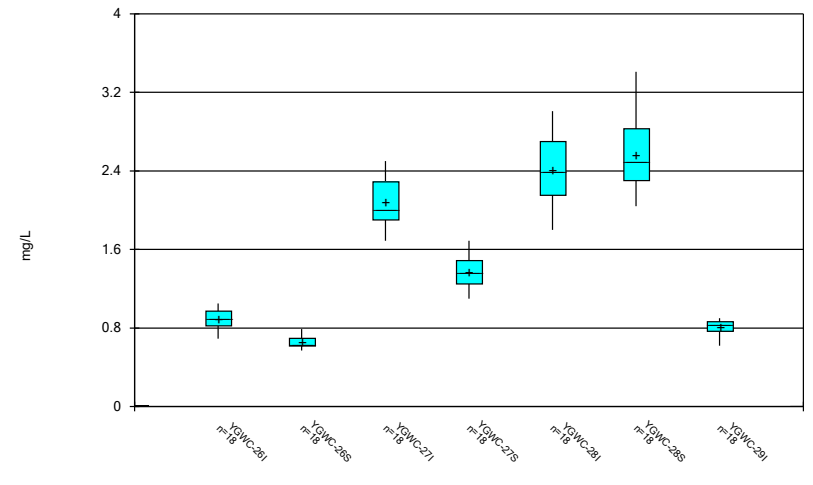
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Box & Whiskers Plot



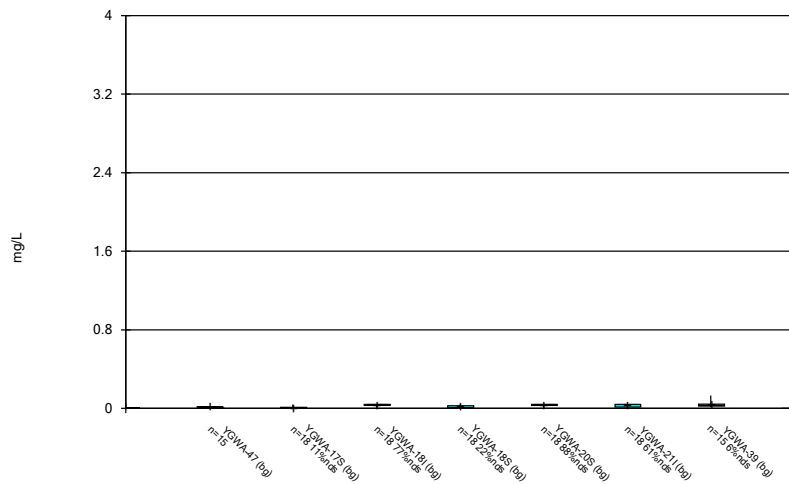
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Box & Whiskers Plot



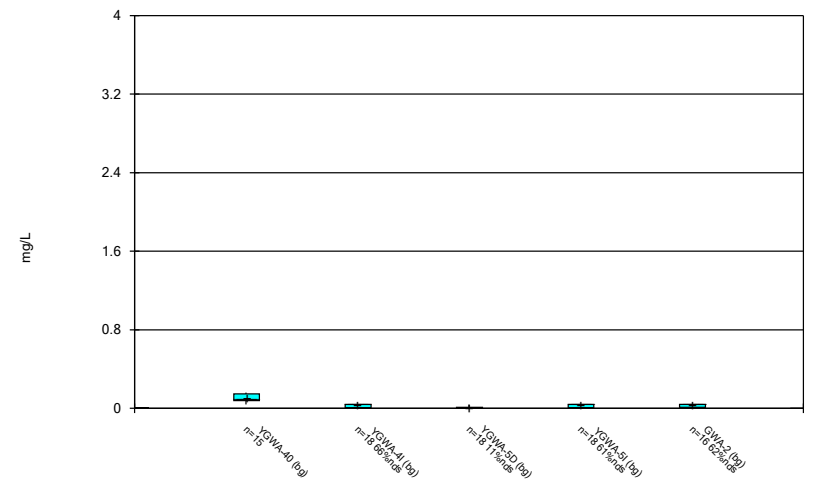
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Box & Whiskers Plot



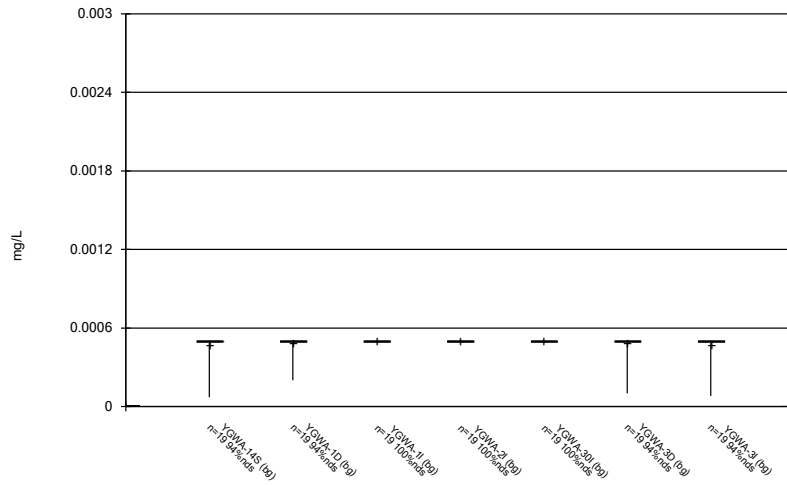
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Box & Whiskers Plot



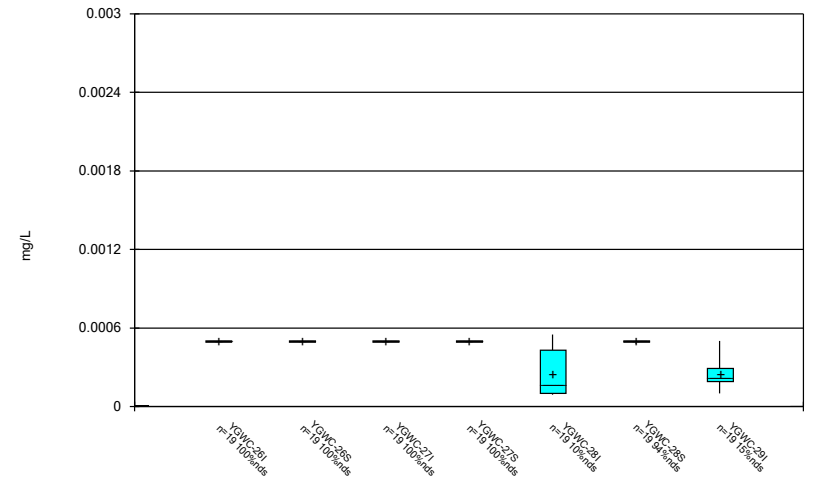
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Box & Whiskers Plot



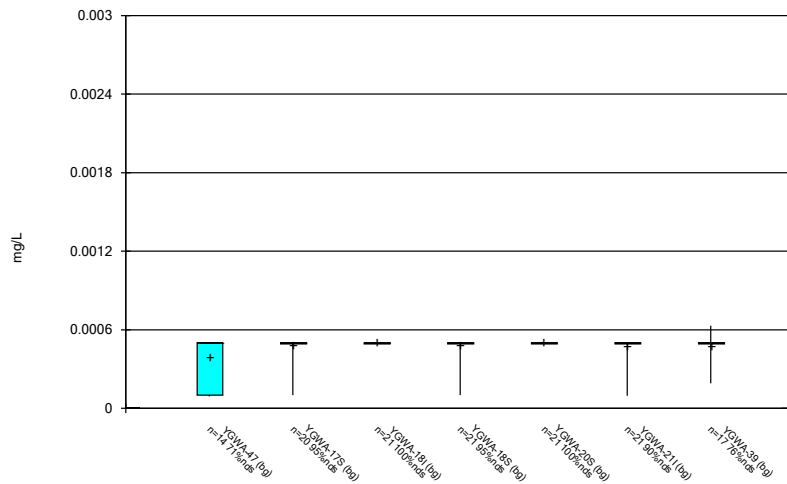
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Box & Whiskers Plot



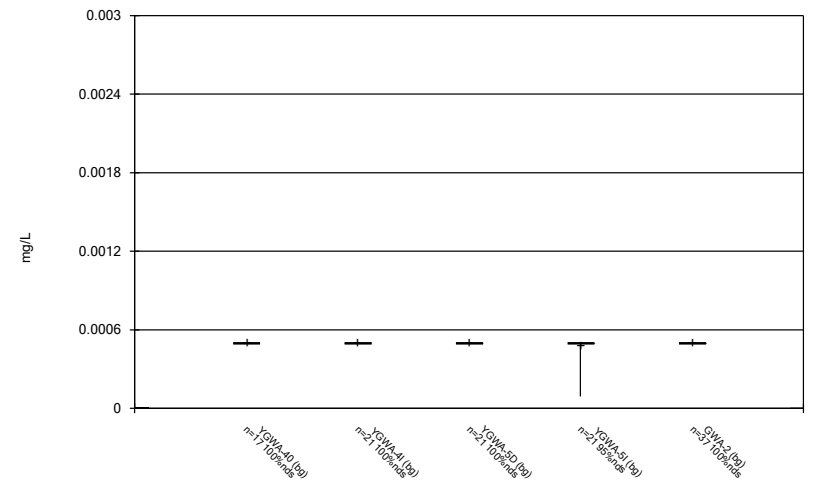
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Box & Whiskers Plot



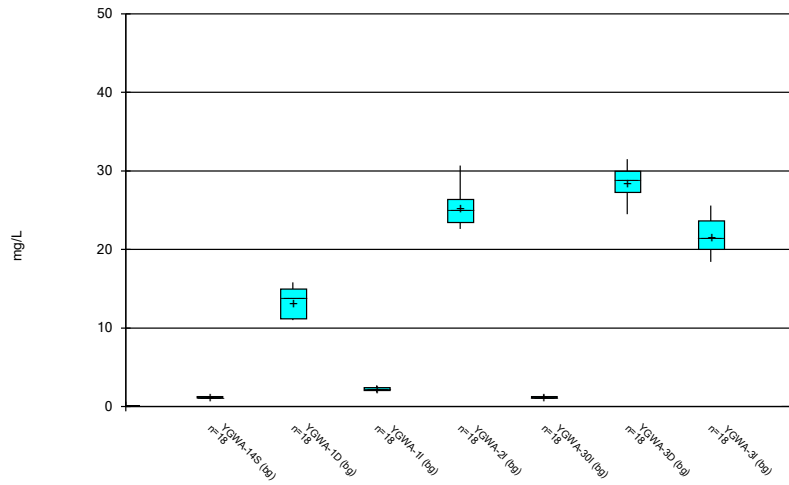
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Box & Whiskers Plot



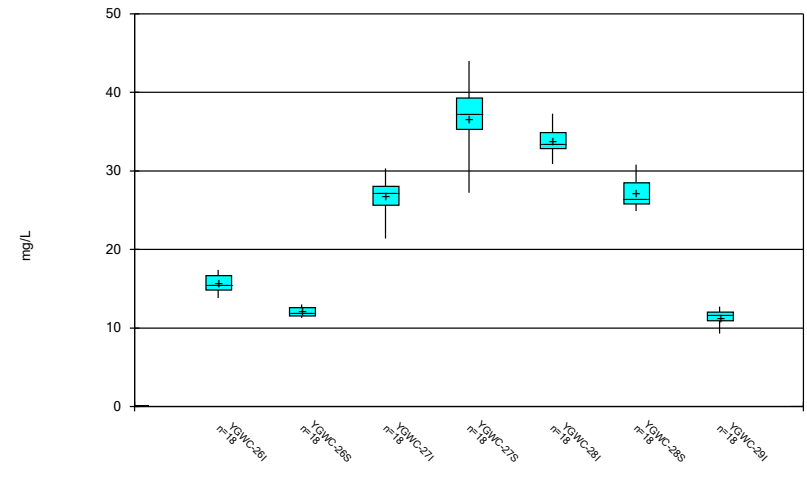
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Box & Whiskers Plot



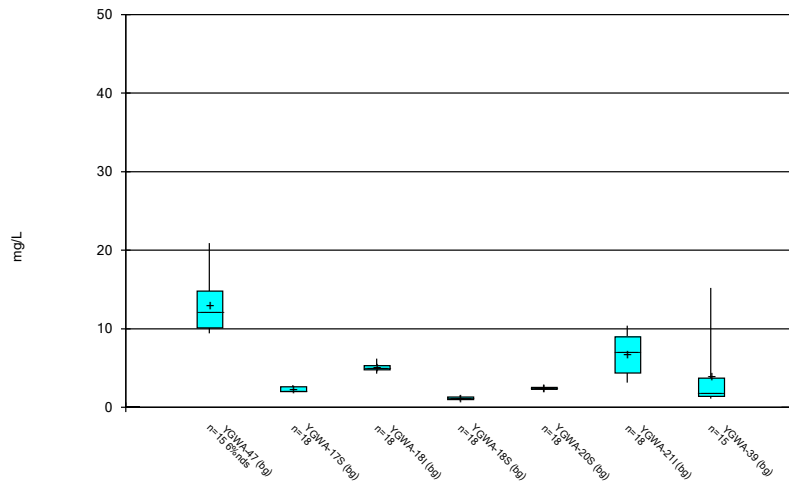
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Box & Whiskers Plot



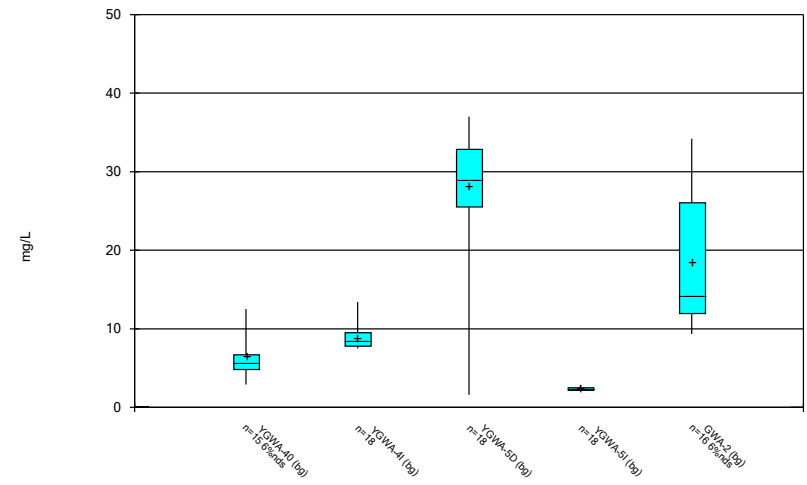
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Box & Whiskers Plot



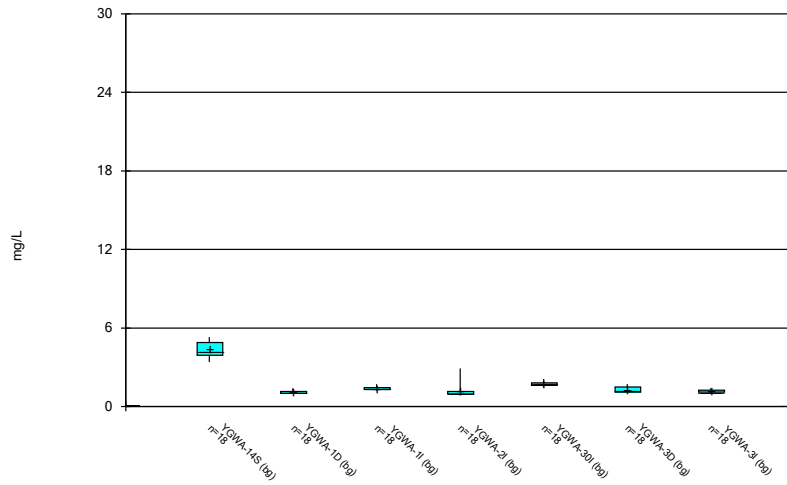
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Box & Whiskers Plot



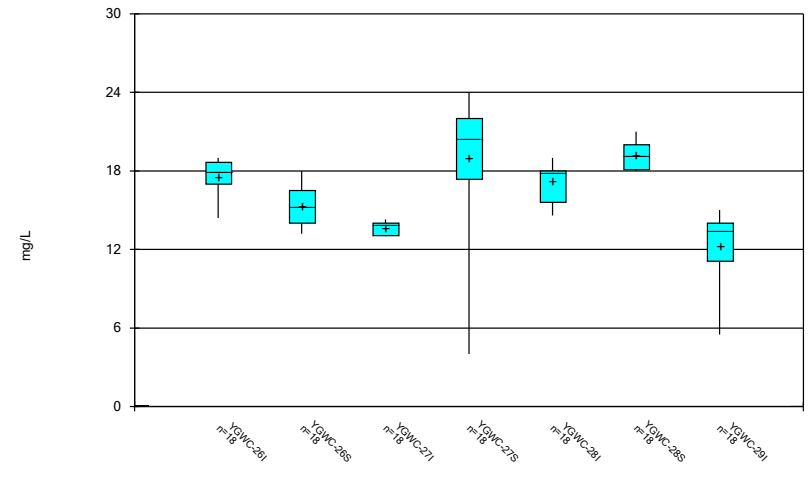
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Box & Whiskers Plot



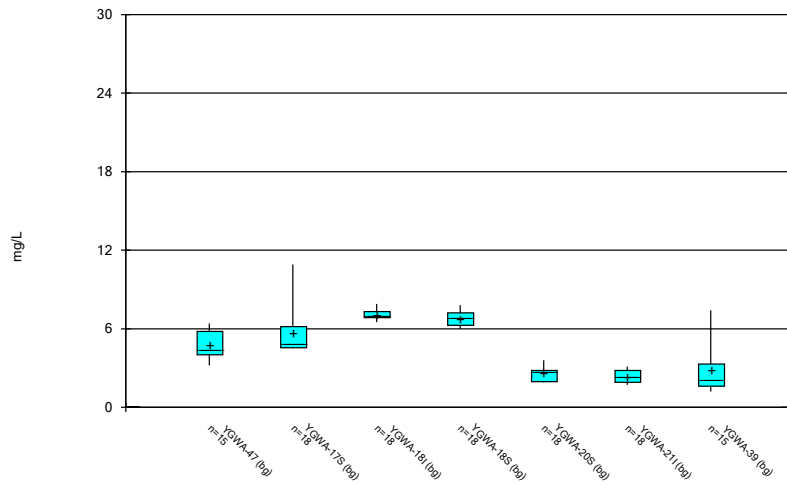
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



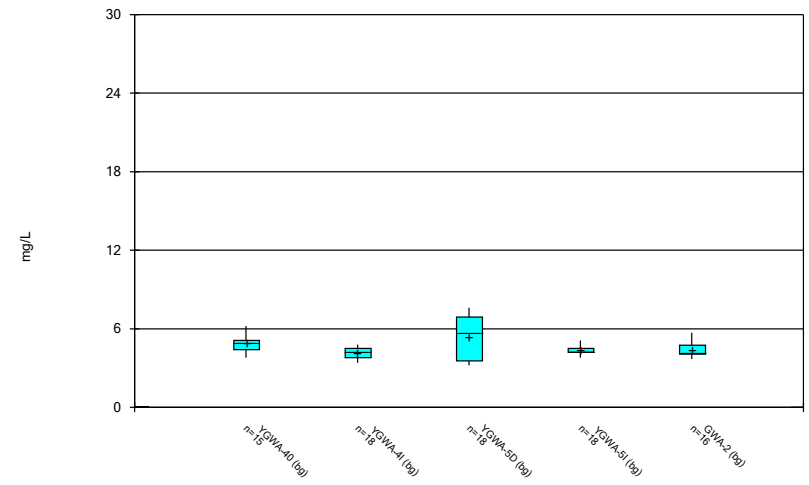
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Box & Whiskers Plot



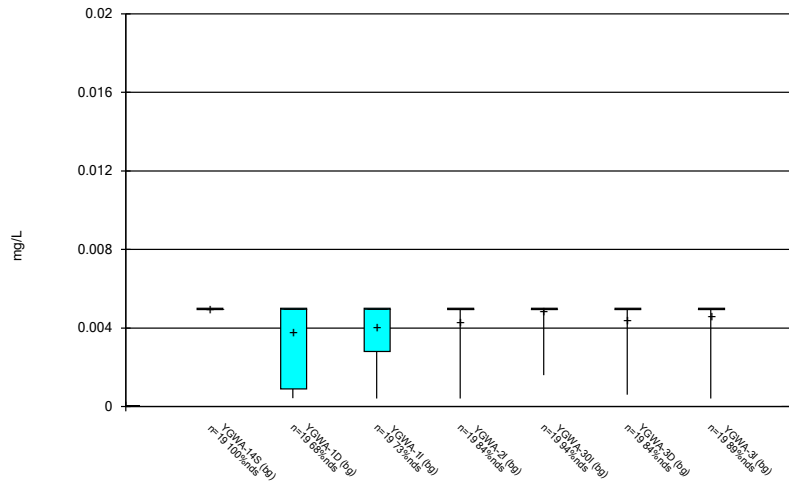
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Box & Whiskers Plot



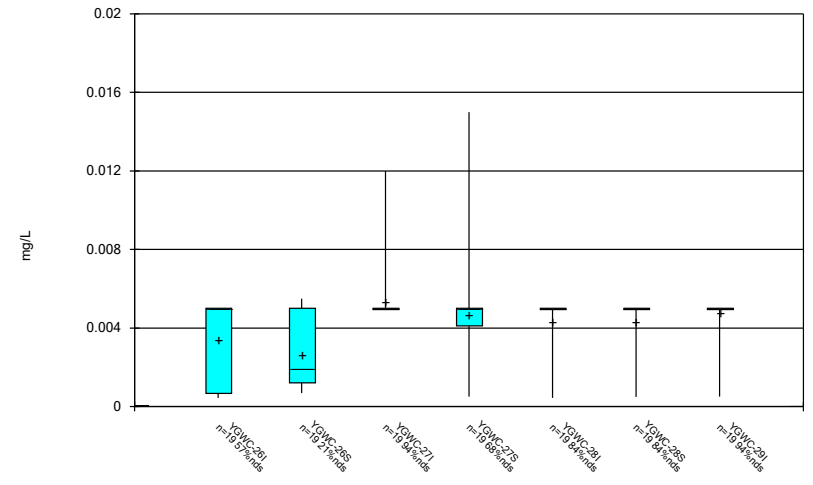
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



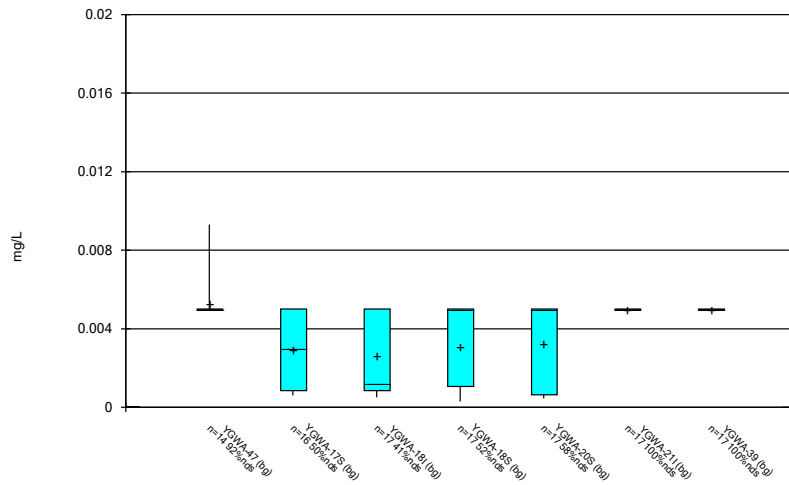
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



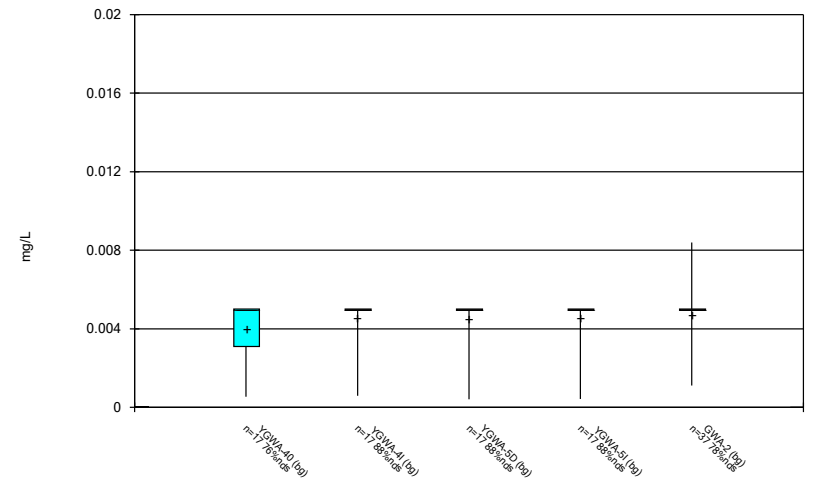
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



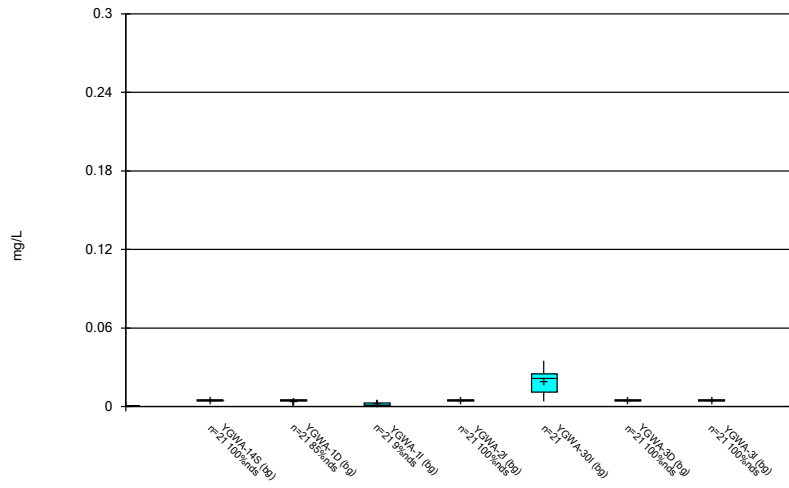
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



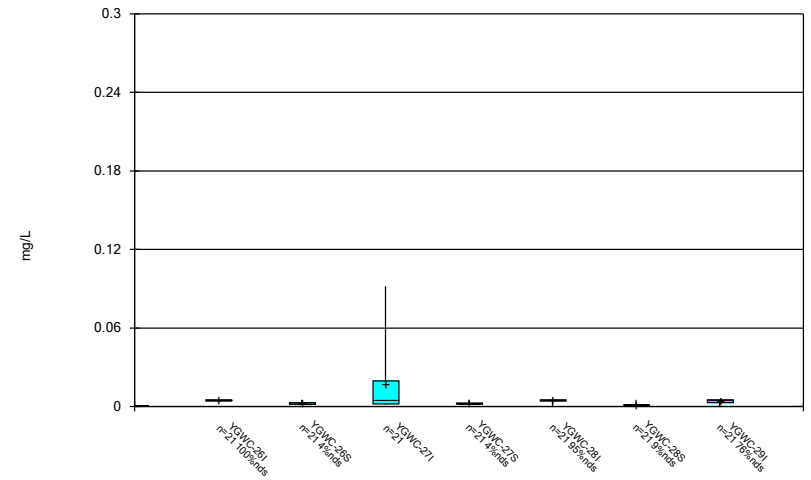
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



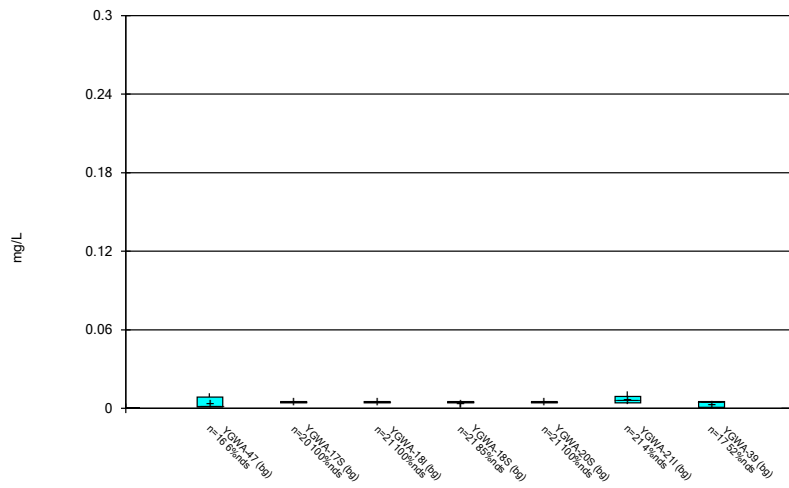
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



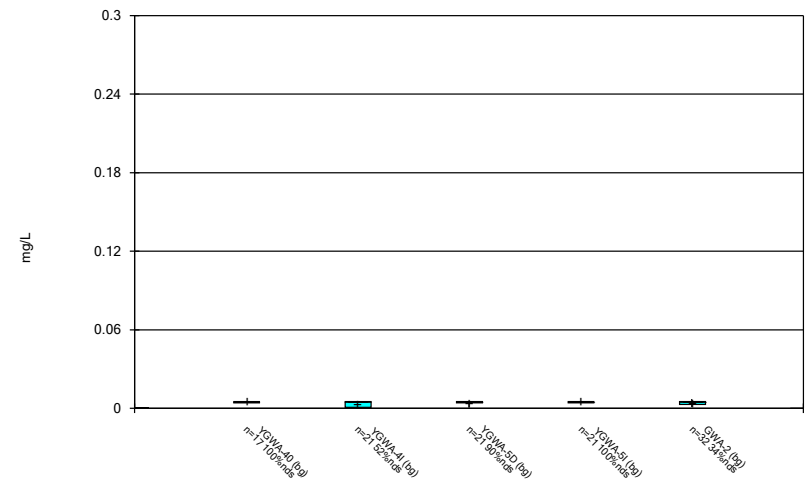
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Box & Whiskers Plot



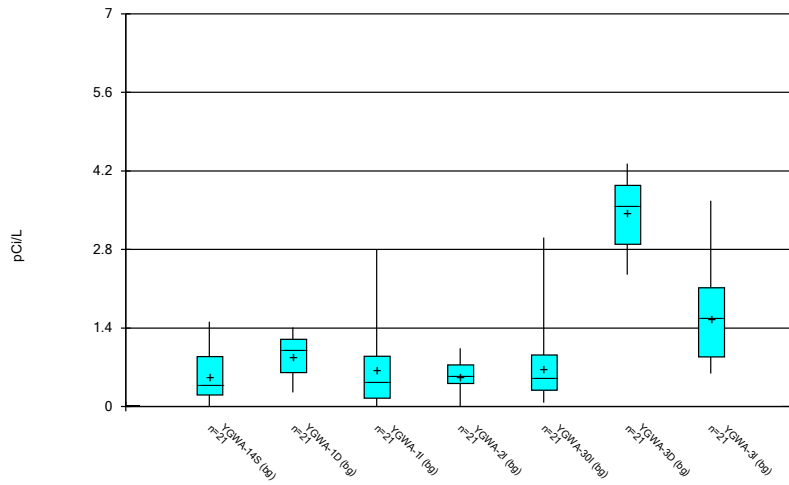
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Box & Whiskers Plot



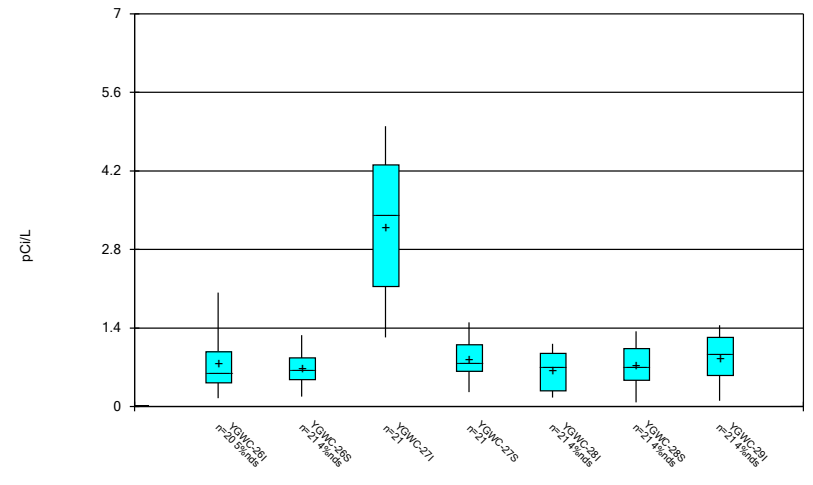
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



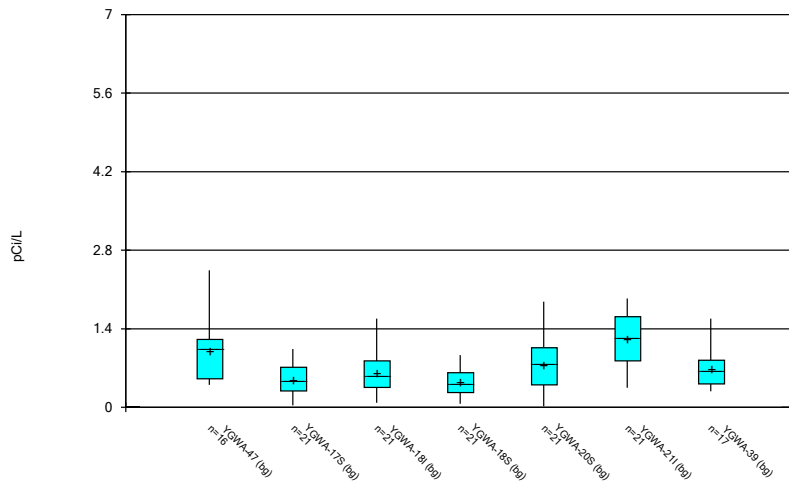
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



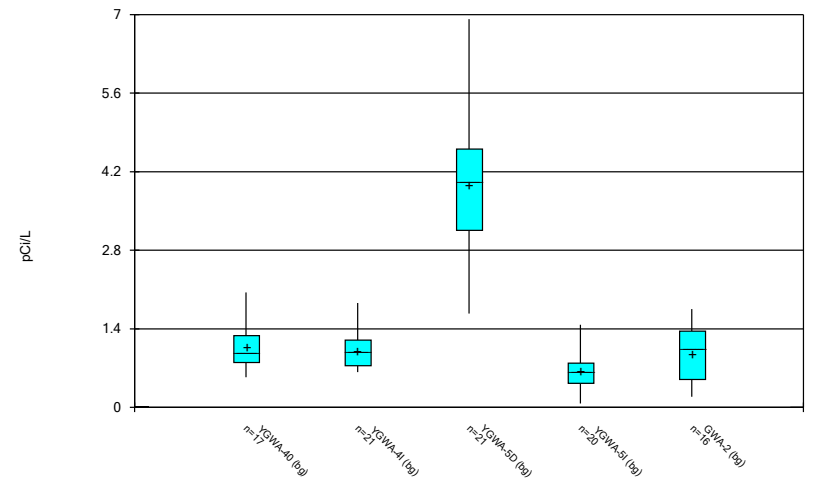
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



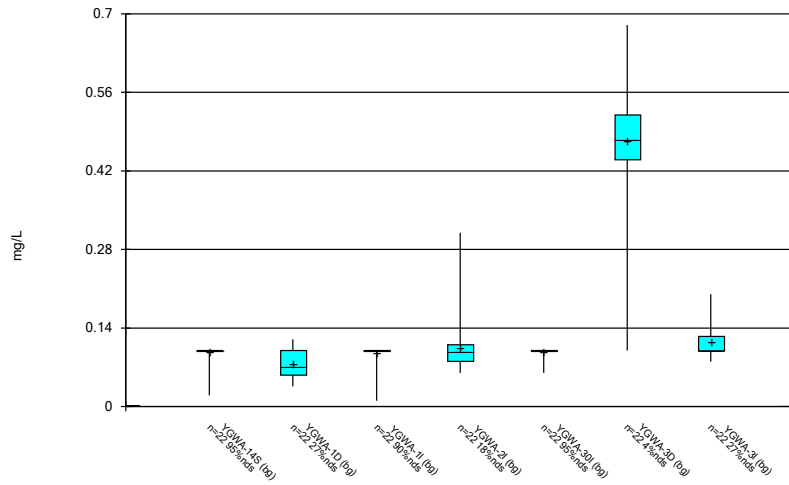
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



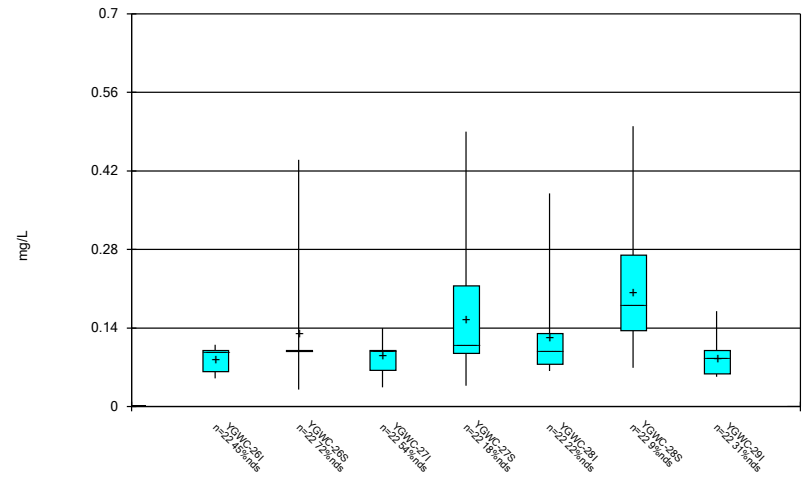
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Box & Whiskers Plot



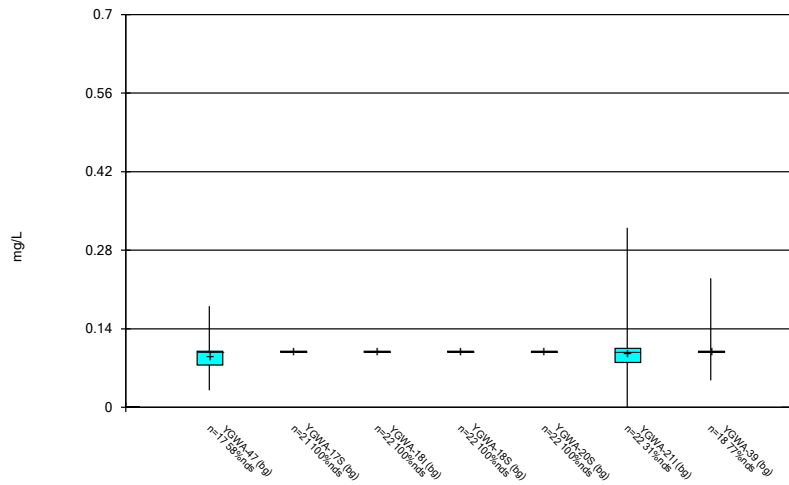
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



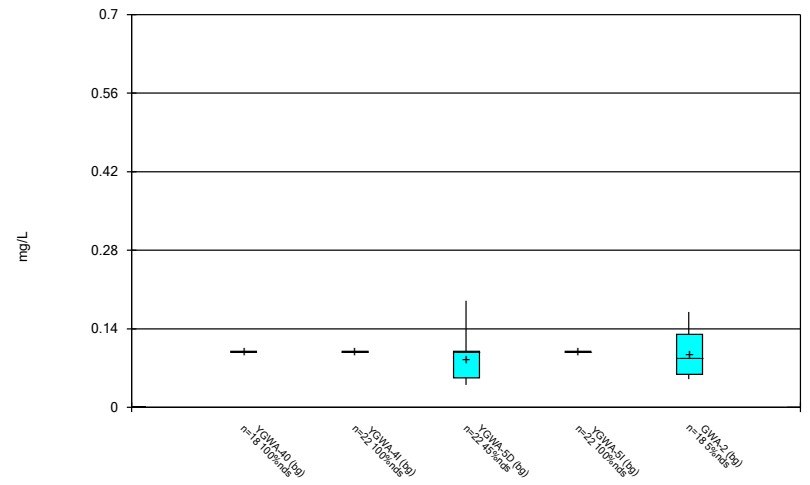
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



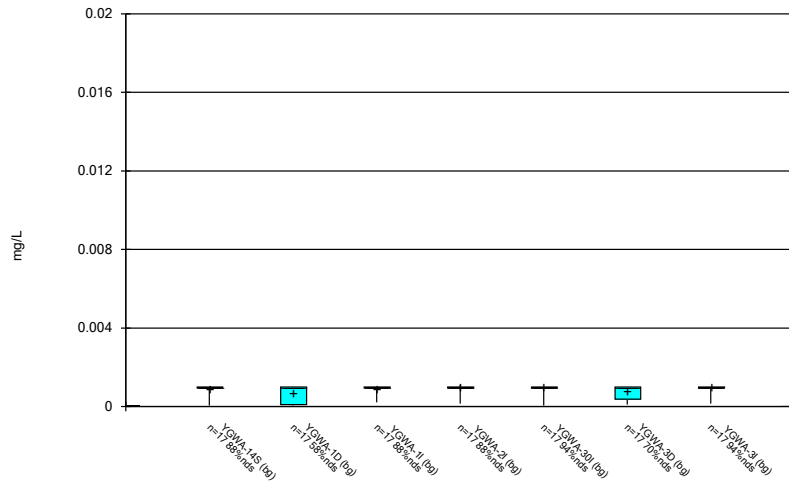
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



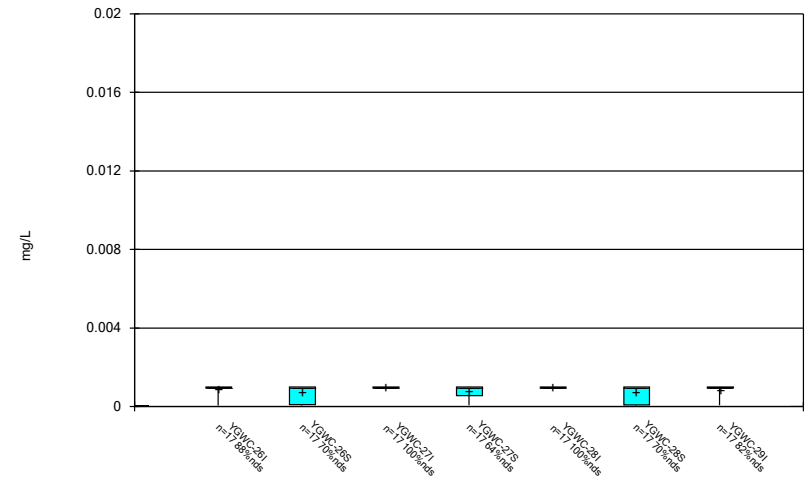
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Box & Whiskers Plot



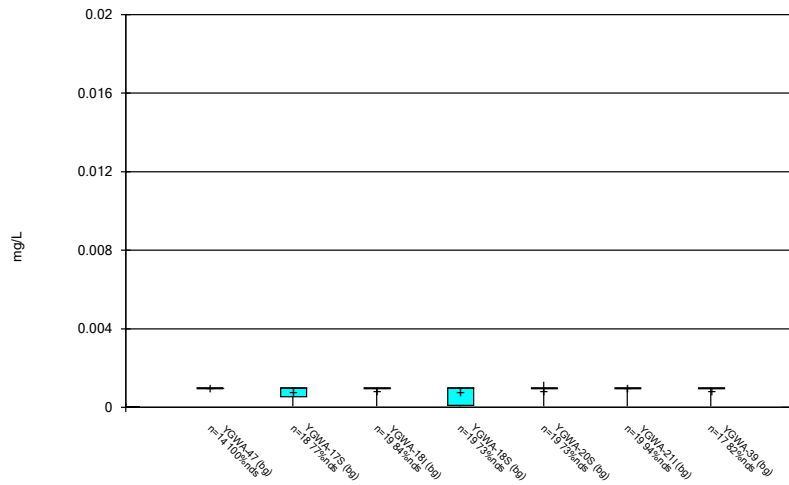
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Box & Whiskers Plot



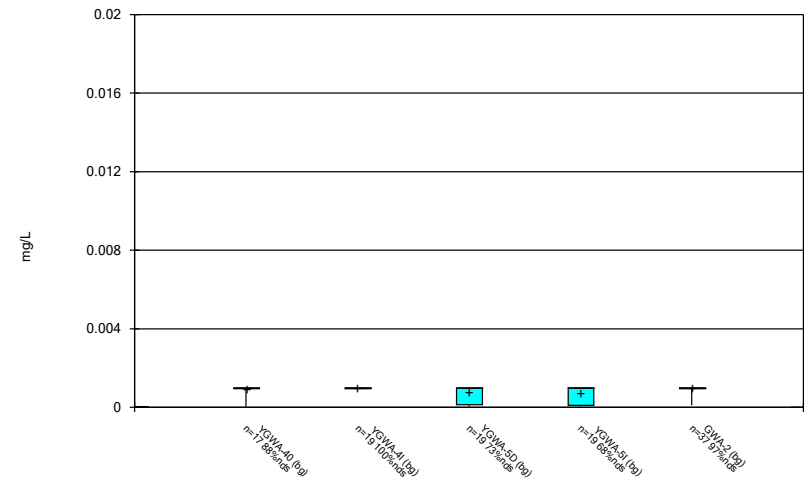
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Box & Whiskers Plot



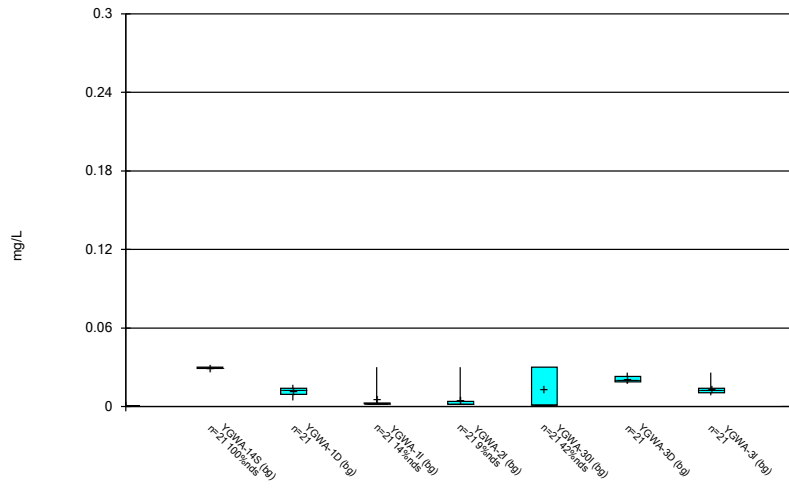
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



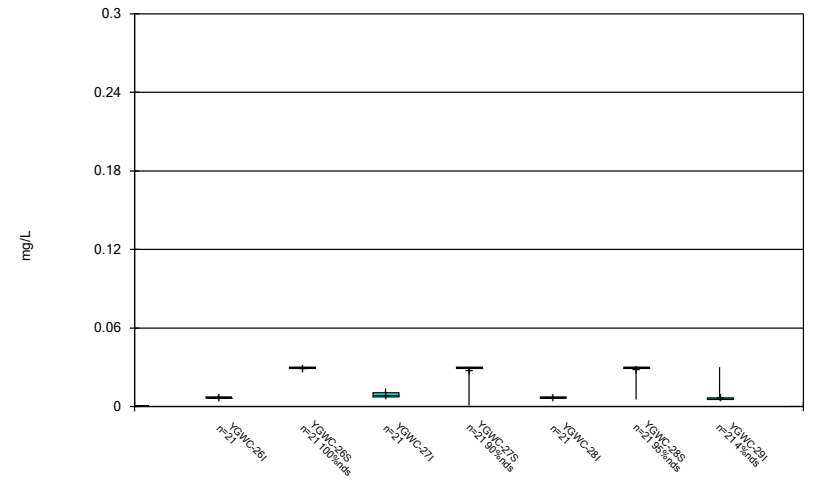
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



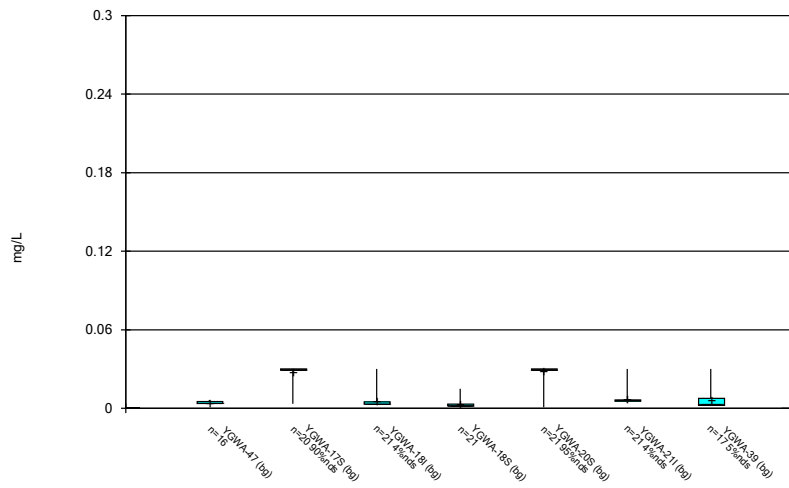
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



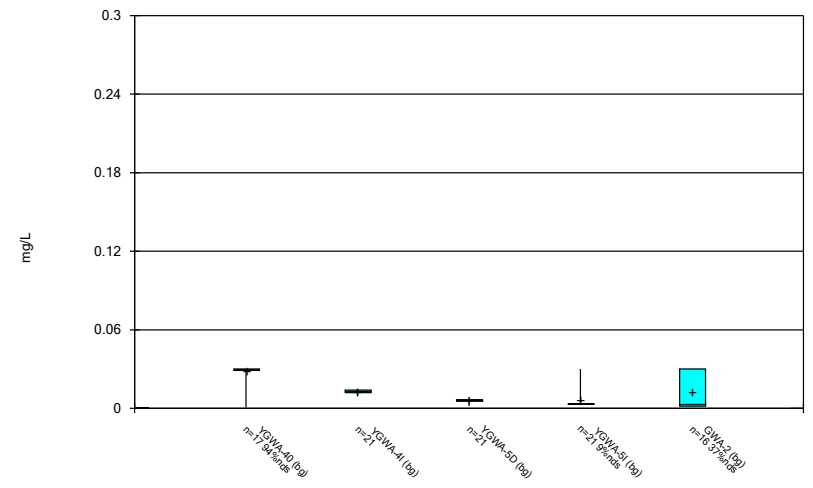
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Box & Whiskers Plot



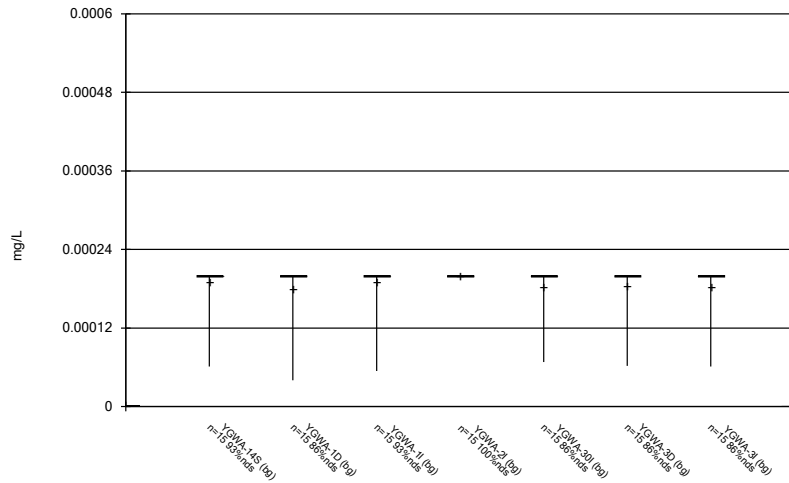
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Box & Whiskers Plot



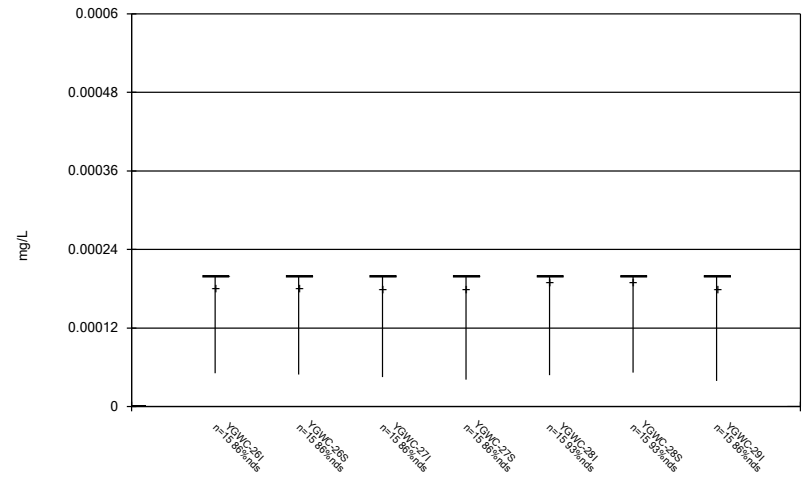
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Box & Whiskers Plot



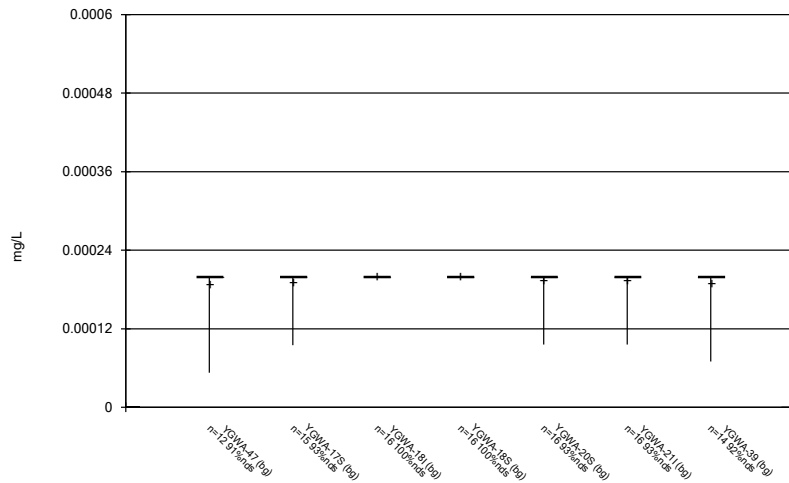
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Box & Whiskers Plot



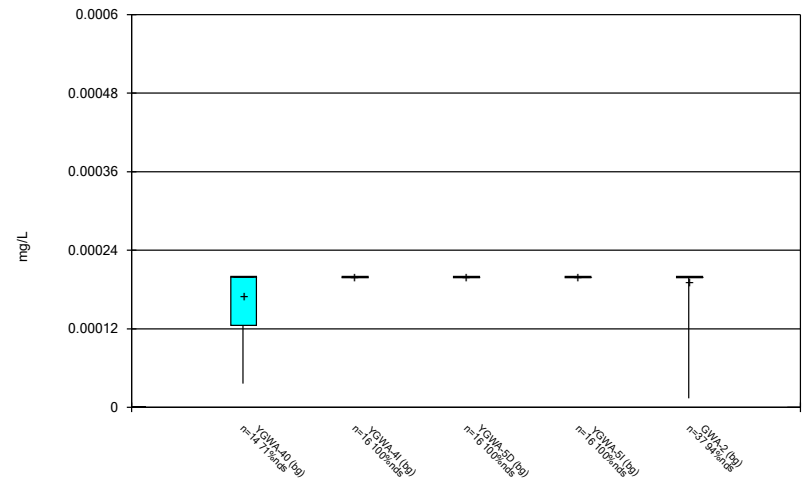
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Box & Whiskers Plot



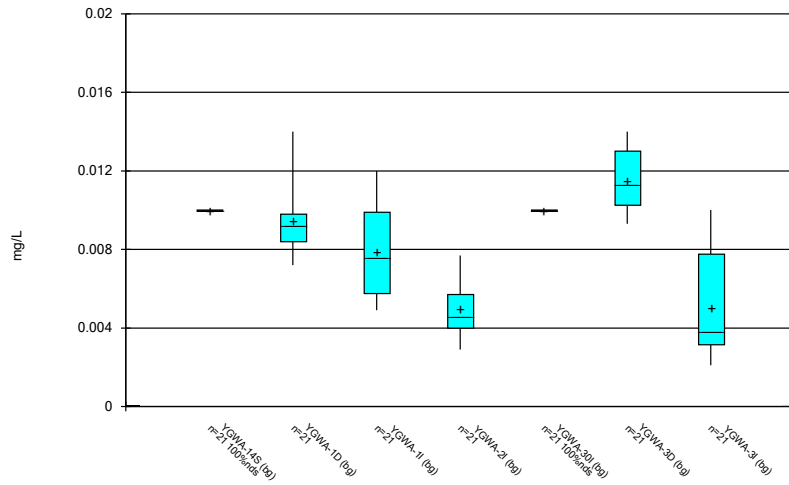
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Box & Whiskers Plot



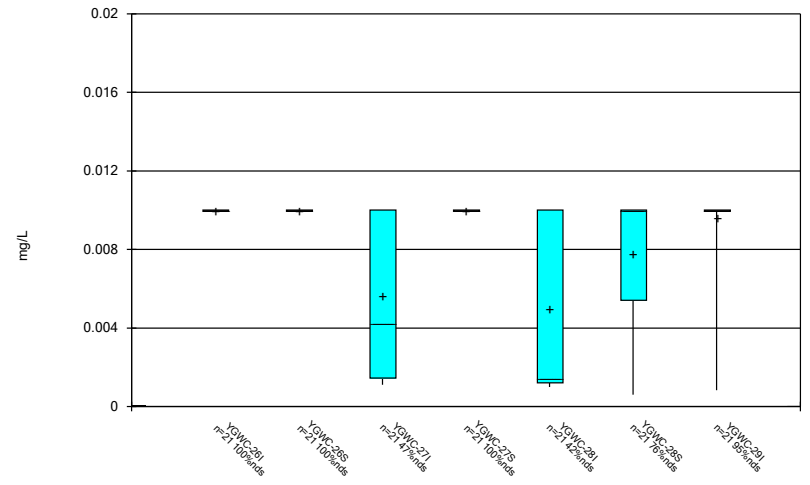
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Box & Whiskers Plot



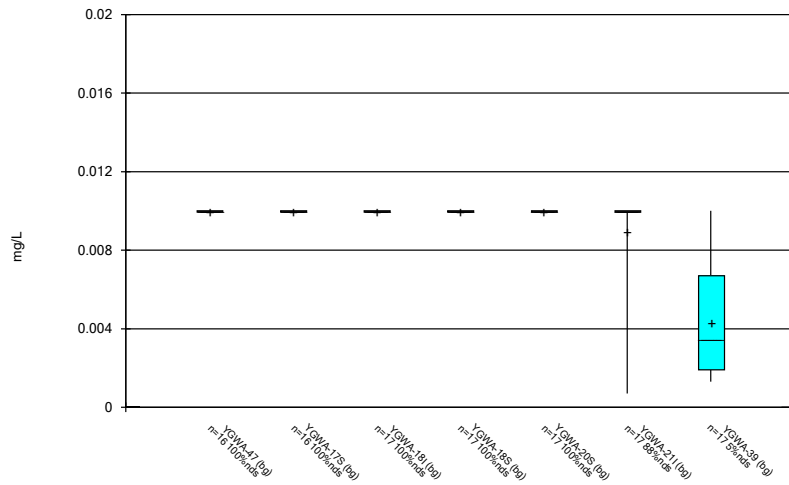
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Box & Whiskers Plot



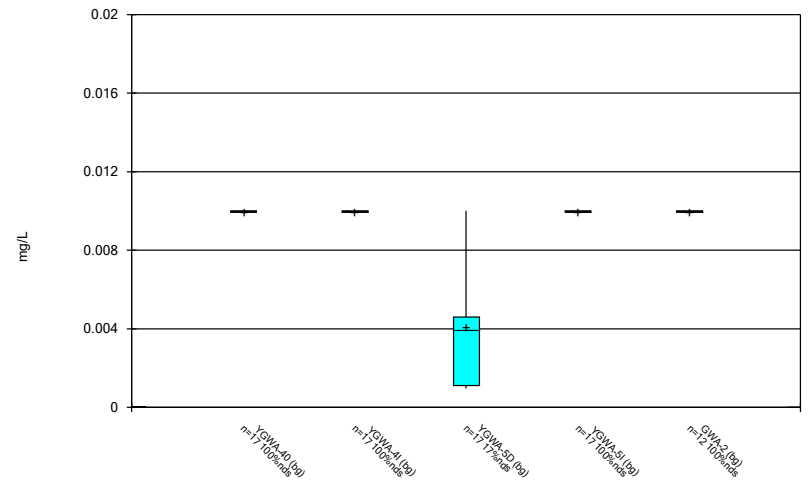
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Box & Whiskers Plot



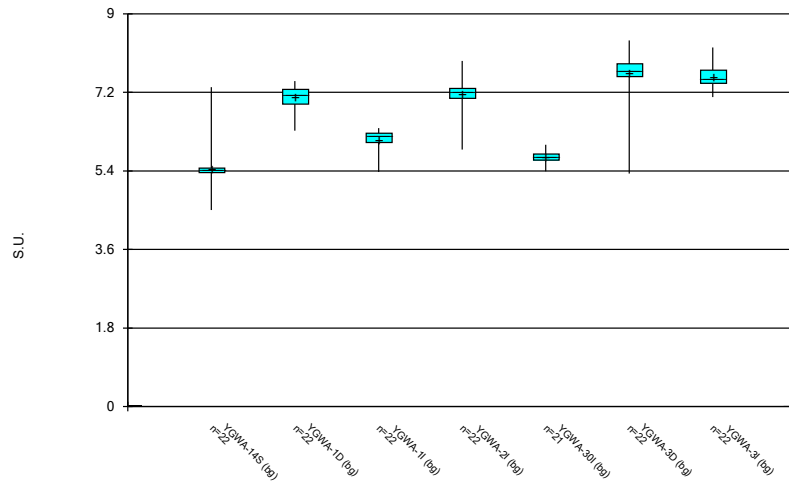
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Box & Whiskers Plot



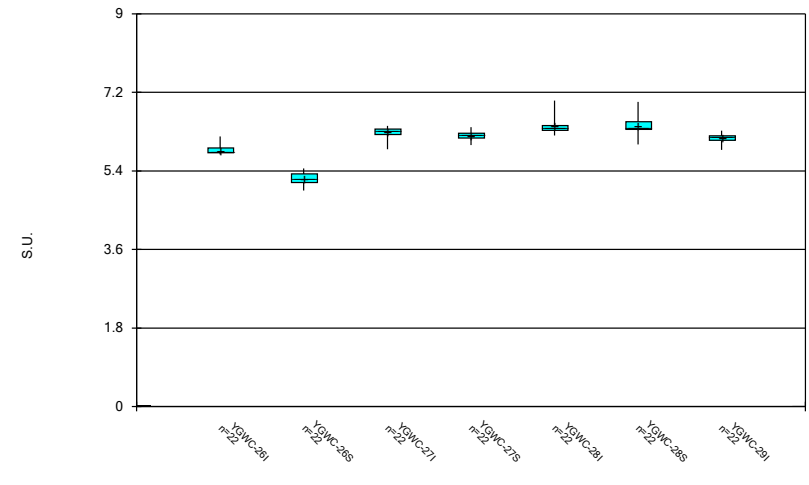
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Box & Whiskers Plot



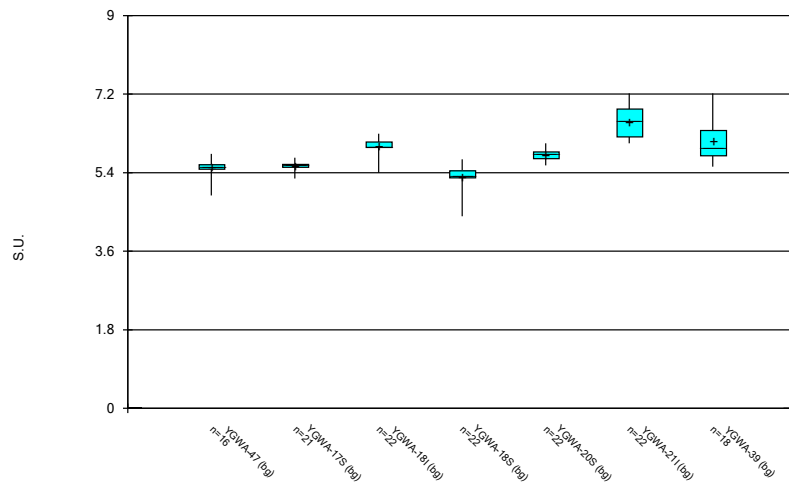
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Box & Whiskers Plot



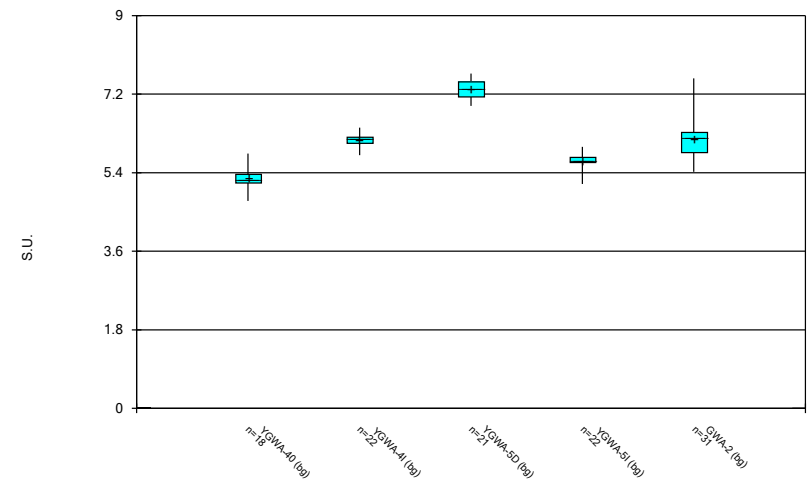
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Box & Whiskers Plot



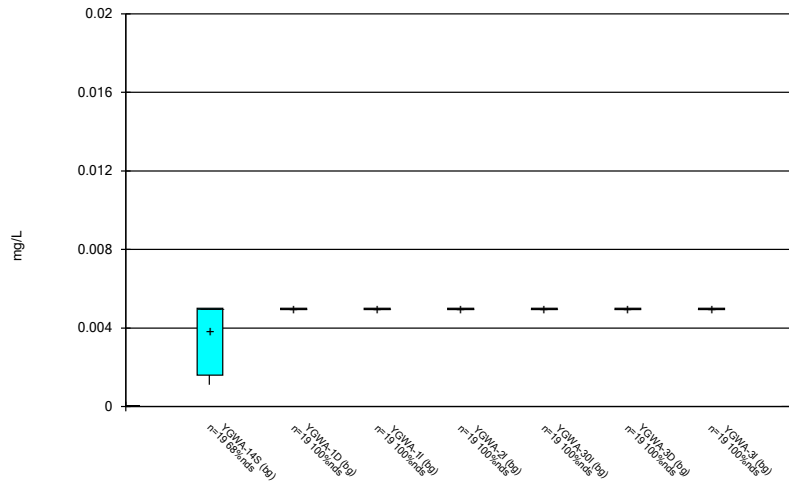
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Box & Whiskers Plot



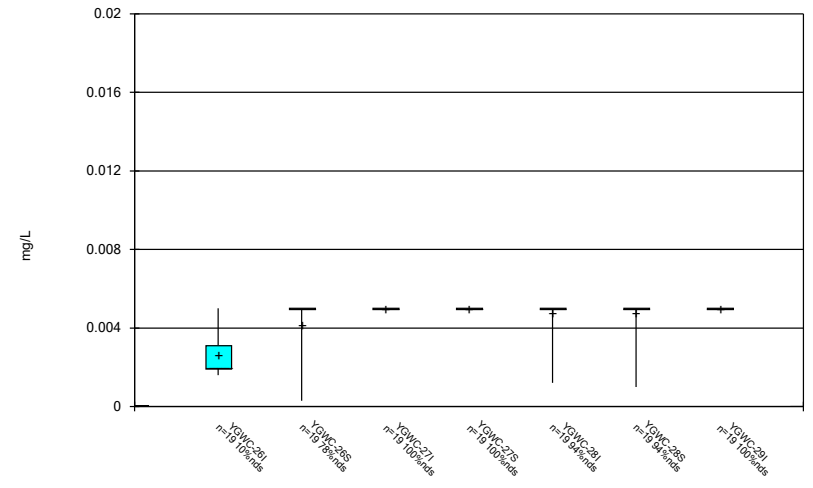
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Box & Whiskers Plot



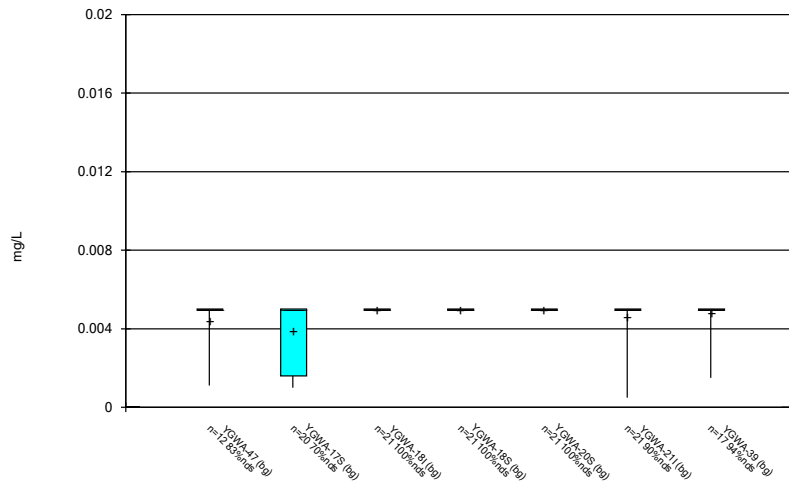
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Box & Whiskers Plot



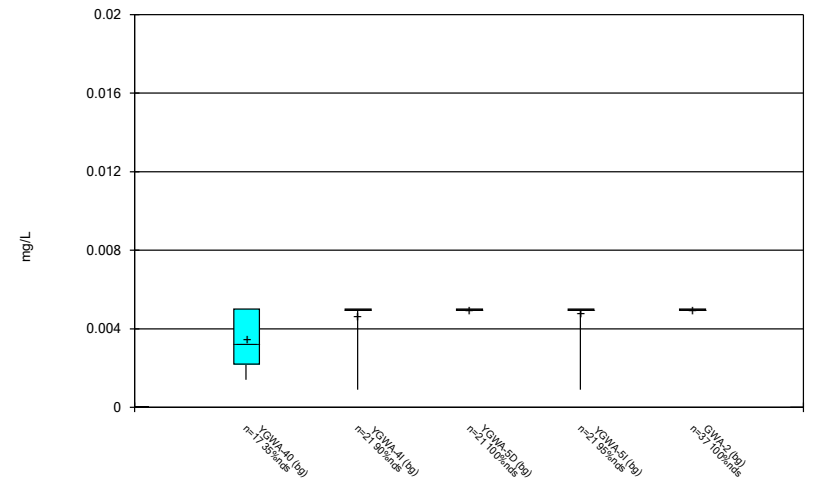
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Box & Whiskers Plot



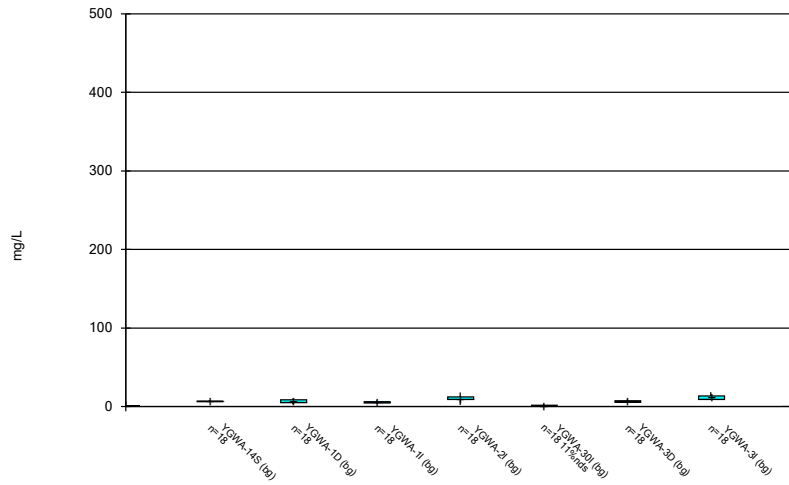
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Box & Whiskers Plot



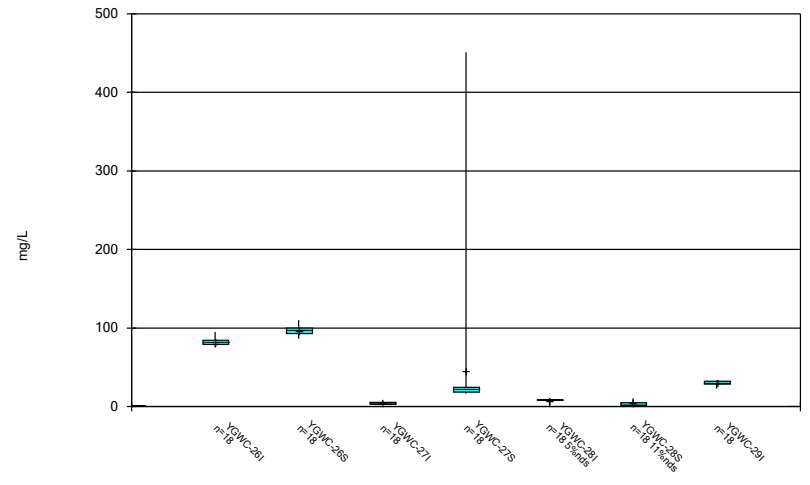
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Box & Whiskers Plot



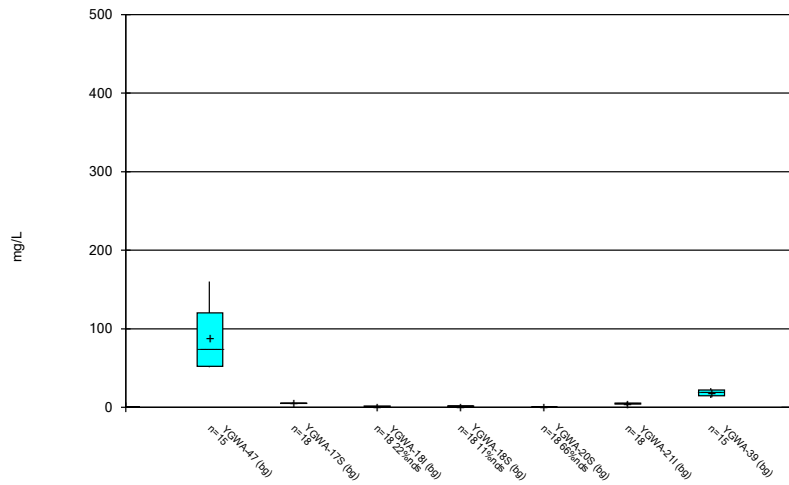
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Box & Whiskers Plot



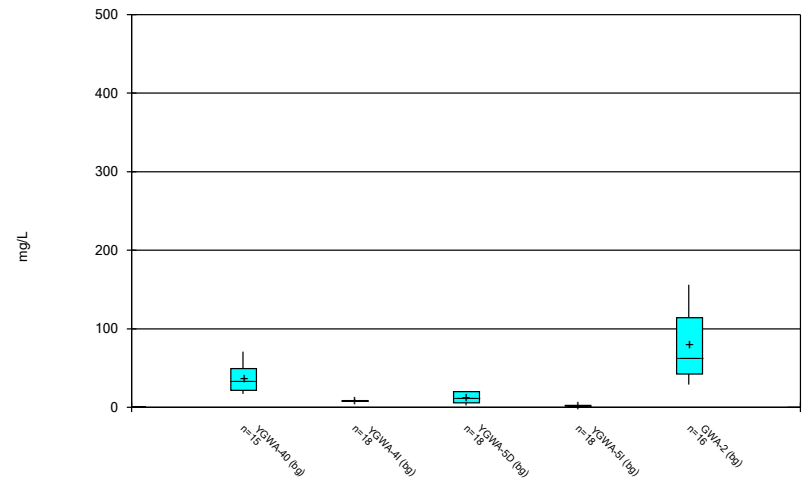
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Box & Whiskers Plot



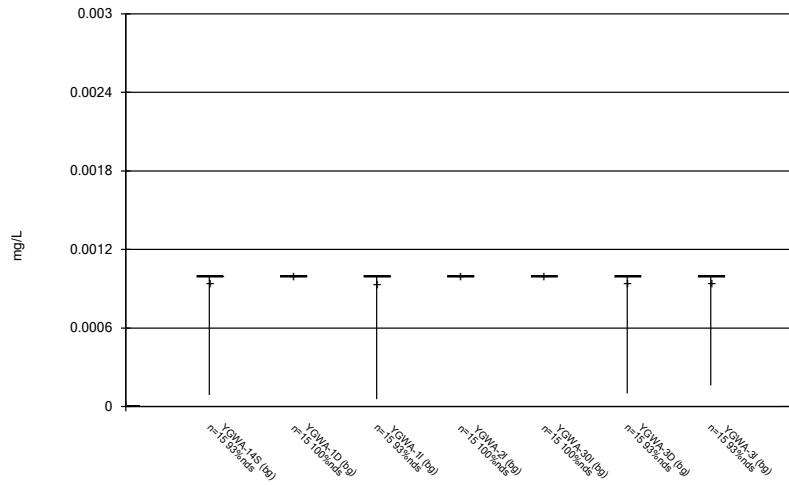
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Box & Whiskers Plot



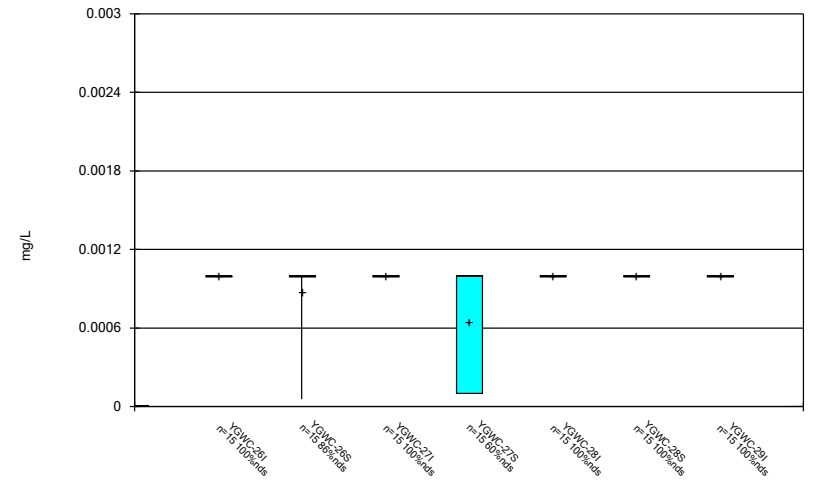
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Box & Whiskers Plot



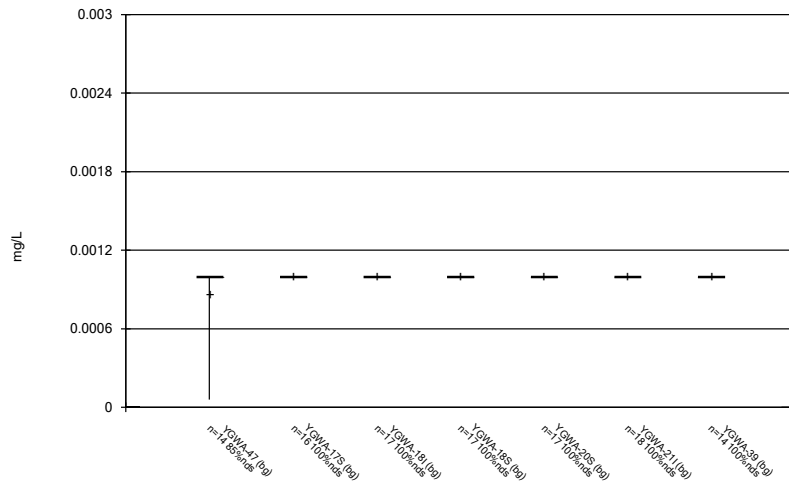
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Box & Whiskers Plot



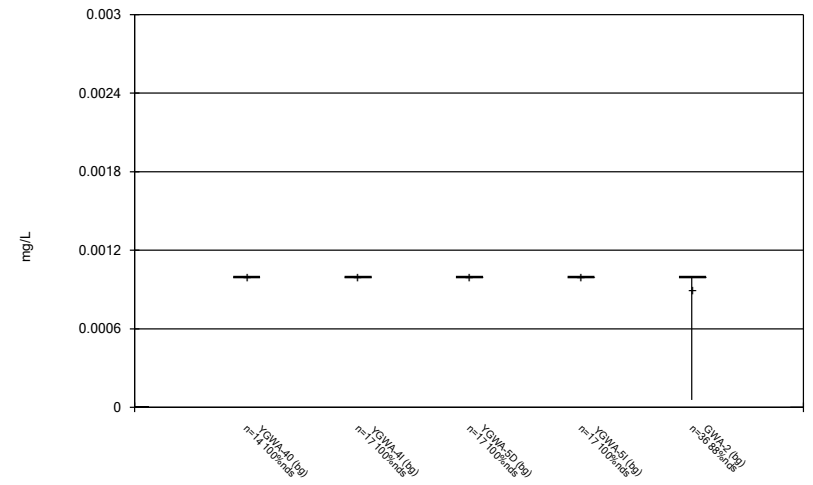
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Box & Whiskers Plot



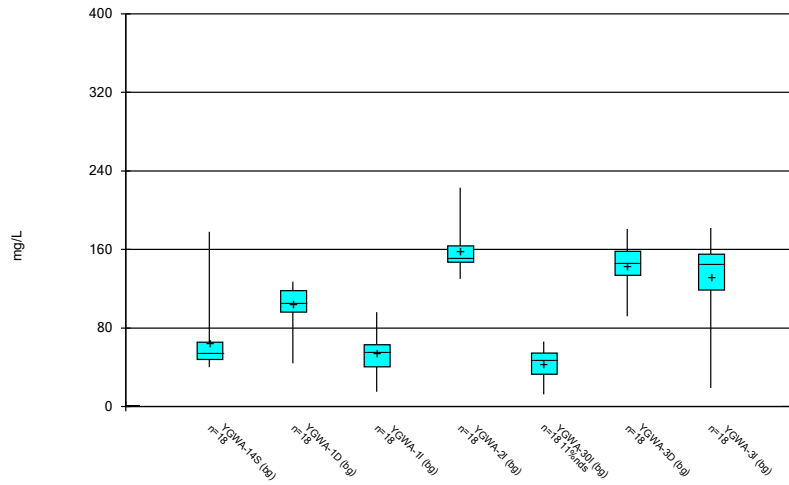
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Box & Whiskers Plot



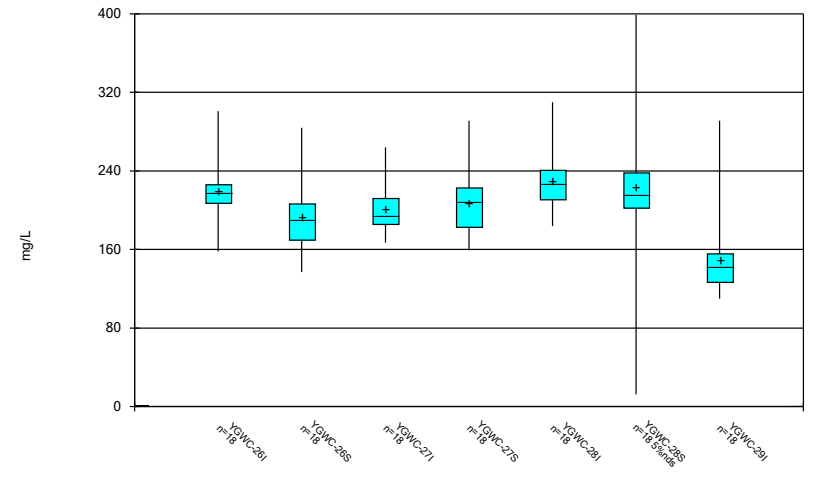
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



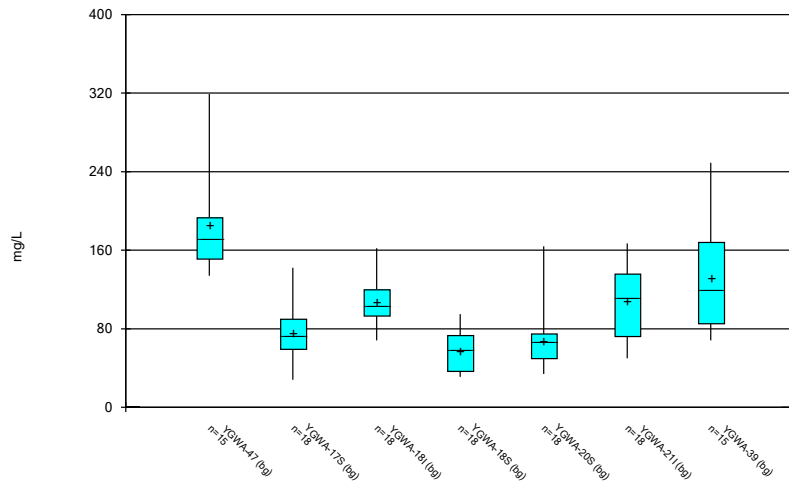
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



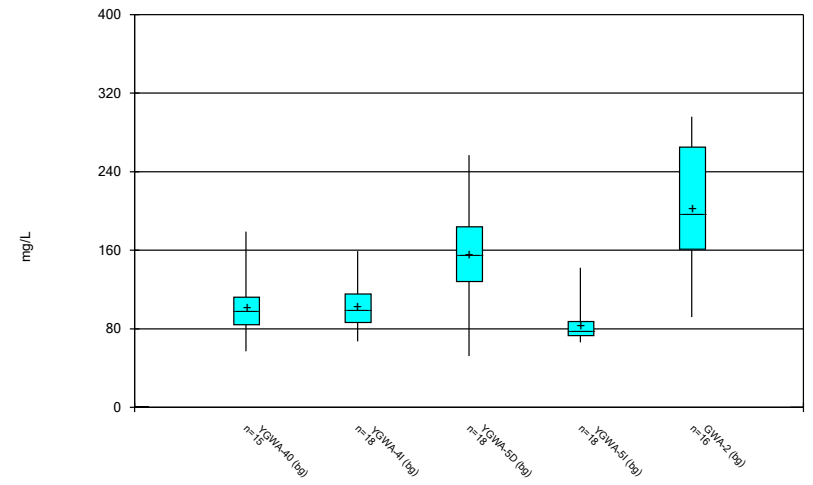
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Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/27/2022 1:25 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:28 PM

	GWA-2 Cobalt (mg/L)	YGWC-261 Combined Radium 226 + 228 (pCi/L)	YGWA-47 pH (S.U.)
6/8/2016		6.68 (o)	
4/2/2018			6.3 (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)		

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Transform Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	2/10/2022	0.79	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/10/2022	0.79	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/10/2022	2.5	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/8/2022	1.1	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/8/2022	2.4	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/8/2022	2.4	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	2/8/2022	0.71	Yes	331	n/a	n/a	48.04	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	10.9	n/a	2/10/2022	15.4	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	10.9	n/a	2/10/2022	14	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	10.9	n/a	2/10/2022	13.1	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	10.9	n/a	2/8/2022	13	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	10.9	n/a	2/8/2022	15.2	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	10.9	n/a	2/8/2022	18.3	Yes	331	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

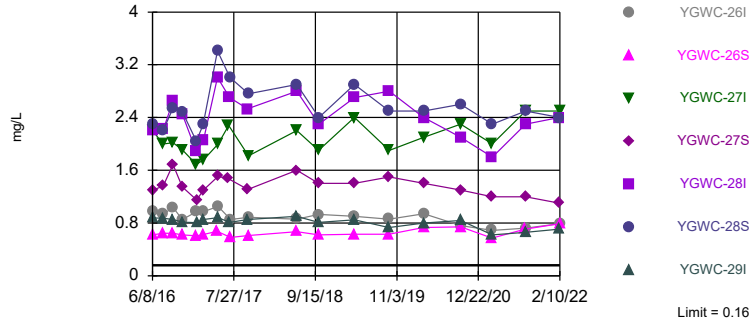
Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:48 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg	N Bg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	2/10/2022	0.79	Yes	331	n/a	n/a	48.04	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/10/2022	0.79	Yes	331	n/a	n/a	48.04	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/10/2022	2.5	Yes	331	n/a	n/a	48.04	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/8/2022	1.1	Yes	331	n/a	n/a	48.04	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/8/2022	2.4	Yes	331	n/a	n/a	48.04	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/8/2022	2.4	Yes	331	n/a	n/a	48.04	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	2/8/2022	0.71	Yes	331	n/a	n/a	48.04	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26I	37	n/a	2/10/2022	16.4	No	331	n/a	n/a	0.9063	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	2/10/2022	11.6	No	331	n/a	n/a	0.9063	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	2/10/2022	27.4	No	331	n/a	n/a	0.9063	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	2/8/2022	27.2	No	331	n/a	n/a	0.9063	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	2/8/2022	31.8	No	331	n/a	n/a	0.9063	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	2/8/2022	26.7	No	331	n/a	n/a	0.9063	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	2/8/2022	9.3	No	331	n/a	n/a	0.9063	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	10.9	n/a	2/10/2022	15.4	Yes	331	n/a	n/a	0	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	10.9	n/a	2/10/2022	14	Yes	331	n/a	n/a	0	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	10.9	n/a	2/10/2022	13.1	Yes	331	n/a	n/a	0	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	10.9	n/a	2/8/2022	13	Yes	331	n/a	n/a	0	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	10.9	n/a	2/8/2022	15.2	Yes	331	n/a	n/a	0	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	10.9	n/a	2/8/2022	18.3	Yes	331	n/a	n/a	0	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	10.9	n/a	2/8/2022	5.5	No	331	n/a	n/a	0	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	2/10/2022	0.1ND	No	400	n/a	n/a	67.5	n/a	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	2/10/2022	0.059J	No	400	n/a	n/a	67.5	n/a	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	2/8/2022	0.087J	No	400	n/a	n/a	67.5	n/a	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	2/8/2022	0.063J	No	400	n/a	n/a	67.5	n/a	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	2/8/2022	0.14	No	400	n/a	n/a	67.5	n/a	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	2/8/2022	0.053J	No	400	n/a	n/a	67.5	n/a	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	2/10/2022	5.84	No	410	n/a	n/a	0	n/a	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	2/10/2022	5.31	No	410	n/a	n/a	0	n/a	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	2/10/2022	6.23	No	410	n/a	n/a	0	n/a	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	2/8/2022	6.22	No	410	n/a	n/a	0	n/a	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	2/8/2022	6.34	No	410	n/a	n/a	0	n/a	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	2/8/2022	6.3	No	410	n/a	n/a	0	n/a	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	8.39	4.4	2/8/2022	5.88	No	410	n/a	n/a	0	n/a	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	2/10/2022	81.8	No	331	n/a	n/a	6.042	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	2/10/2022	86.5	No	331	n/a	n/a	6.042	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	2/10/2022	2.4	No	331	n/a	n/a	6.042	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	2/8/2022	16.3	No	331	n/a	n/a	6.042	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	2/8/2022	8.1	No	331	n/a	n/a	6.042	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	2/8/2022	10.5	No	331	n/a	n/a	6.042	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	2/8/2022	22.9	No	331	n/a	n/a	6.042	n/a	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	221.1	n/a	2/10/2022	207	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-26S	221.1	n/a	2/10/2022	168	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-27I	221.1	n/a	2/10/2022	190	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-27S	221.1	n/a	2/8/2022	159	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-28I	221.1	n/a	2/8/2022	206	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-28S	221.1	n/a	2/8/2022	216	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-29I	221.1	n/a	2/8/2022	120	No	331	10.06	2.585	0.6042	None	sqrt(x)	0.001075	Param Inter 1 of 2	

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

Prediction Limit Interwell Non-parametric

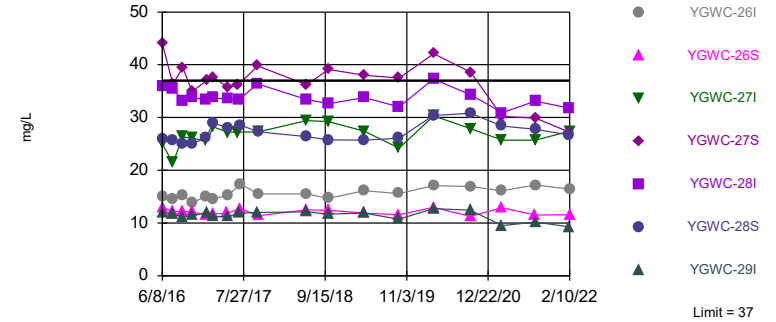


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 331 background values. 48.04% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 3/21/2022 12:47 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

Prediction Limit Interwell Non-parametric

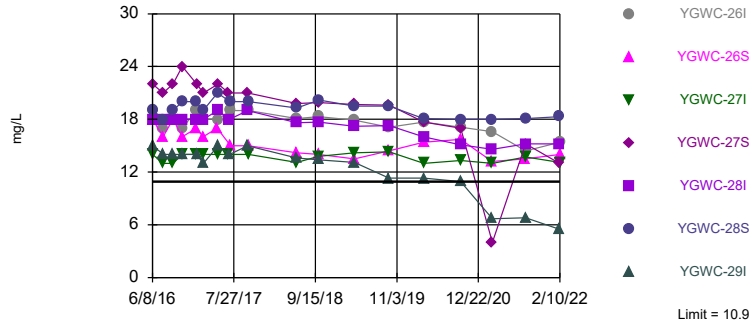


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 331 background values. 0.9063% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 3/21/2022 12:47 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S

Prediction Limit Interwell Non-parametric



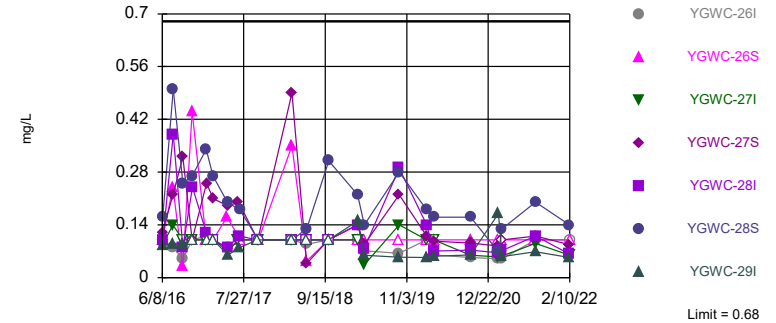
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 331 background values. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 3/21/2022 12:47 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Within Limit

Prediction Limit Interwell Non-parametric

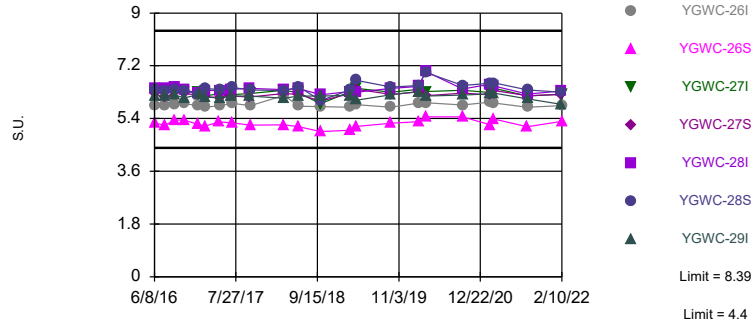


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 400 background values. 67.5% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 3/21/2022 12:47 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limits

Prediction Limit
Interwell Non-parametric



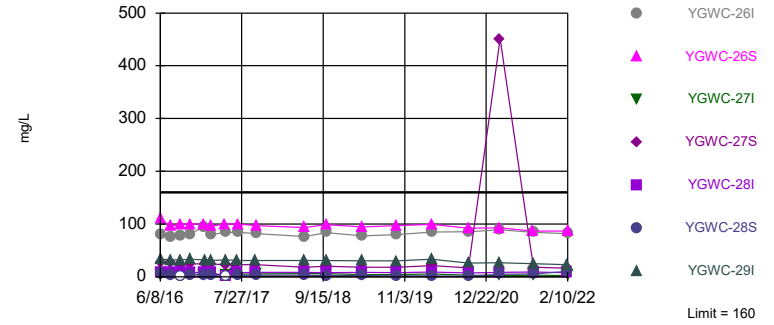
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 410 background values. Annual per-constituent alpha = 0.001377. Individual comparison alpha = 0.00009836 (1 of 2). Comparing 7 points to limit.

Constituent: pH Analysis Run 3/21/2022 12:47 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric



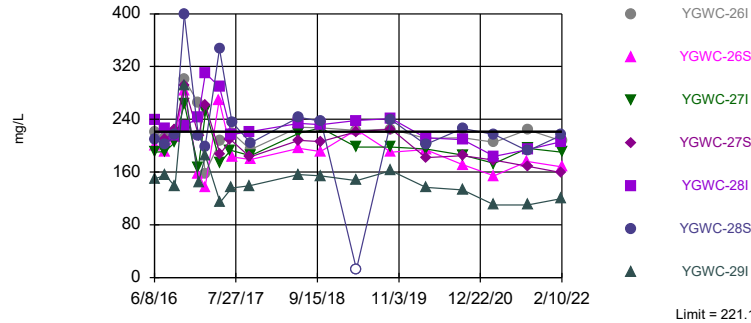
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 331 background values. 6.042% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 3/21/2022 12:47 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.06, Std. Dev.=2.585, n=331, 0.6042% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 13.86, critical = 14.07. Kappa = 1.859 (c=7, w=7, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.001075. Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 3/21/2022 12:47 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (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									
6/8/2016									
6/9/2016									
7/25/2016	<0.04	<0.04							<0.04
7/26/2016			0.0055 (J)	0.0177 (J)	0.0047 (J)	0.0052 (J)	0.0097 (J)	<0.04	
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04				<0.04	0.0071 (J)		0.01 (J)	
9/15/2016				0.0214 (J)			0.0102 (J)		
9/16/2016									
9/19/2016									<0.04
9/20/2016									
9/21/2016									
11/1/2016	<0.04		0.0086 (J)				<0.04		<0.04
11/2/2016				<0.04	<0.04	<0.04			
11/3/2016									
11/4/2016		<0.04						<0.04	
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				0.0198 (J)					
1/11/2017	<0.04		0.0074 (J)				<0.04		
1/12/2017						0.0076 (J)		<0.04	
1/13/2017					<0.04				
1/16/2017		<0.04							<0.04
1/18/2017									
1/19/2017									
2/21/2017									<0.04
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	<0.04								
3/2/2017		<0.04	0.008 (J)				0.0084 (J)		
3/3/2017									
3/6/2017					<0.04				
3/7/2017						0.0089 (J)		<0.04	
3/8/2017				0.0189 (J)					
4/26/2017	<0.04			0.0161 (J)			<0.04		<0.04
4/27/2017		<0.04	0.0066 (J)						
4/28/2017									
5/1/2017					<0.04	0.0061 (J)			
5/2/2017								<0.04	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		0.006 (J)	0.0087 (J)			0.0079 (J)		<0.04	
6/28/2017	<0.04						<0.04		
6/29/2017					<0.04				
6/30/2017				0.0173 (J)					<0.04
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		0.0071 (J)	0.0072 (J)			0.0094 (J)		<0.04	
10/4/2017	<0.04						<0.04		<0.04
10/5/2017				0.0173 (J)	<0.04				
10/6/2017									
10/9/2017									
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									
6/5/2018			0.0052 (J)						
6/6/2018		<0.04				0.0098 (J)			
6/7/2018					0.0045 (J)		0.004 (J)	<0.04	
6/8/2018	<0.04			0.013 (J)					
6/11/2018									0.014 (J)
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					0.005 (J)	0.01 (J)		0.0057 (J)	
10/1/2018	<0.04	0.0049 (J)	0.021 (J)	0.015 (J)			<0.04		
10/2/2018									<0.04
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		<0.04	0.005 (J)						
3/29/2019				0.014 (J)					
4/1/2019	<0.04						<0.04		<0.04

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/2/2019									
4/3/2019					0.0055 (J)	0.0076 (J)		0.0044 (J)	
6/12/2019									
9/24/2019		0.0055 (J)	0.0064 (J)			0.01 (J)		0.0049 (J)	
9/25/2019	<0.04			0.018 (J)	<0.04		0.0054 (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	0.0053 (J)		0.0085 (J)				0.0073 (J)		0.0052 (J)
3/20/2020									
3/24/2020						0.011 (J)		0.0068 (J)	
3/25/2020					0.011 (J)				
9/22/2020					<0.04	0.0079 (J)		0.0053 (J)	
9/23/2020	0.0073 (J)	<0.04	<0.04				0.012 (J)		
9/24/2020									0.0075 (J)
9/25/2020				0.02 (J)					
3/1/2021									<0.04
3/2/2021				0.017 (J)		0.0068 (J)		0.011 (J)	
3/3/2021	<0.04	<0.04	<0.04		0.0056 (J)		<0.04		
3/4/2021									
8/19/2021		<0.04	<0.04	0.018 (J)			<0.04		<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				0.02 (J)		0.011 (J)		<0.04	
2/11/2022					<0.04				<0.04

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
6/8/2016						1.3	0.97	0.62	2.2
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	0.0059 (J)	<0.04	0.008 (J)		<0.04				
7/28/2016				<0.04					
8/1/2016						1.36	0.932	0.643	2
8/2/2016									
8/30/2016									
8/31/2016									
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				
9/20/2016						1.69	1.04	0.644	2.02
9/21/2016									
11/1/2016									
11/2/2016					<0.04				
11/3/2016	0.0082 (J)	<0.04	0.0077 (J)	<0.04					
11/4/2016									
11/7/2016						1.35	0.852	0.621	1.91
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	0.0096 (J)	<0.04	0.0092 (J)						
1/12/2017									
1/13/2017				<0.04	<0.04				
1/16/2017									
1/18/2017							0.972	0.607	1.69
1/19/2017						1.15			
2/21/2017							0.972	0.624	
2/22/2017						1.3			
2/23/2017									1.76
2/24/2017									
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	0.0091 (J)	<0.04		<0.04	<0.04				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			<0.04						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								0.676	
5/5/2017									
5/8/2017						1.51	1.05		2
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.04							
6/29/2017			0.0074 (J)	<0.04	<0.04				
6/30/2017						1.47			2.28
7/5/2017									
7/7/2017									
7/10/2017							0.855	0.58	
7/11/2017									
7/17/2017									
10/3/2017				<0.04					
10/4/2017	0.009 (J)		0.0077 (J)		<0.04				
10/5/2017		<0.04							
10/6/2017						1.31			
10/9/2017									1.82
10/10/2017							0.887	0.612	
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									
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)						
6/12/2018						1.6			
6/13/2018							0.86	0.67	2.2
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	0.007 (J)	0.0046 (J)	0.0096 (J)	0.0054 (J)	<0.04				
9/26/2018									
10/1/2018									
10/2/2018						1.4	0.93	0.62	1.9
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						1.4			2.4

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	3.41		3.01					
5/8/2017		0.884		0.0141 (J)	0.0084 (J)			
5/26/2017						<0.04		
6/27/2017								
6/28/2017						<0.04		
6/29/2017								
6/30/2017								
7/5/2017		0.811	2.7					
7/7/2017	3.01							
7/10/2017								
7/11/2017				0.0131 (J)				
7/17/2017					0.0092 (J)			
10/3/2017						<0.04		
10/4/2017								
10/5/2017		0.851	2.53					
10/6/2017								
10/9/2017	2.76							
10/10/2017				0.0124 (J)				
10/11/2017							0.0135 (J)	
10/12/2017								0.0401
10/16/2017					<0.04			
11/20/2017							0.0251 (J)	0.156
1/10/2018								0.15
1/11/2018							0.0255 (J)	
2/19/2018					<0.04			0.146
2/20/2018							<0.04	
4/2/2018				0.013 (J)				
4/3/2018							0.033 (J)	0.12
6/5/2018								
6/6/2018								
6/7/2018						<0.04		
6/8/2018								
6/11/2018		0.9						
6/12/2018	2.9		2.8					
6/13/2018								
6/28/2018							0.053	0.16
8/6/2018					<0.04			
8/7/2018							0.024 (J)	0.12
9/19/2018				0.012 (J)				
9/24/2018							0.028 (J)	0.099
9/25/2018								
9/26/2018								
10/1/2018						<0.04		
10/2/2018		0.81						
10/3/2018	2.4		2.3					
2/25/2019					<0.04			
3/26/2019								0.096
3/27/2019				0.013 (J)			0.017 (J)	
3/28/2019								
3/29/2019						0.0065 (J)		
4/1/2019		0.85	2.7					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		2.36	13.8			36.5		2.13	
6/28/2017	23.9						29.8		
6/29/2017					8.81				
6/30/2017				1.24					1.13
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		2.21	14			30.9		2.15	
10/4/2017	22.1						29.7		1.09
10/5/2017				1.11	9.29				
10/6/2017									
10/9/2017									
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									
6/5/2018			15.2 (J)						
6/6/2018		2.3				26.2			
6/7/2018					8.2		29.1	2.3	
6/8/2018	21.9 (J)			1.1					
6/11/2018									1.1
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					9.5 (J)	25.8		2.3	
10/1/2018	19.7	1.8	15.1	0.99			26.9		
10/2/2018									1.1
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		2.2	13.3 (J)						
3/29/2019				1.1					
4/1/2019	20.4 (J)						30.1		1.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/2/2019									
4/3/2019					8.4	24.7 (J)		2.8	
6/12/2019									
9/24/2019		2.3	15.8			25.8		2.5	
9/25/2019	22.4			1.1	9.5		29.5		1.1
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		2.1		1.1					
3/19/2020	21.9		15				31.5		1.2
3/20/2020									
3/24/2020						26.1		2.5	
3/25/2020					10.5				
9/22/2020					9.6	27.2		2.6	
9/23/2020	23.6	1.8	14.1				28.6		
9/24/2020									1.1
9/25/2020				1.3					
3/1/2021									1.2
3/2/2021				1.2		1.6		2.6	
3/3/2021	20.6	1.8	14.1		7.7		29.8		
3/4/2021									
8/19/2021		2	14.2	1.2			28.1		1.2
8/20/2021									
8/26/2021					7.6	25.2		2.5	
8/27/2021	24.7								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	23.7	2.1	14.9				30.3		
2/10/2022				1.3		24.8		2.5	
2/11/2022					7.5				1.5

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	1.4	6.2							
6/7/2016			2.2	3.7	2.3				
6/8/2016						44	15	13	25
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73	2		2.08				
7/28/2016				3.15					
8/1/2016						36.3	14.5	12.2	21.4
8/2/2016									
8/30/2016									
8/31/2016									
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				
9/20/2016						39.5	15.3	12.2	26.3
9/21/2016									
11/1/2016									
11/2/2016					2.13				
11/3/2016	1.31	5.25	1.99	3.4					
11/4/2016									
11/7/2016						34.9	13.8	12.1	26.1
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.25	4.74	2.28						
1/12/2017									
1/13/2017				4.98	2.45				
1/16/2017									
1/18/2017							15.1	11.5	25.6
1/19/2017						37			
2/21/2017							14.6	11.7	
2/22/2017						37.6			
2/23/2017									28.2
2/24/2017									
3/1/2017	1.26	5.37							
3/2/2017			2.15						
3/3/2017									
3/6/2017				6.28	2.48				
3/7/2017									
3/8/2017									
4/26/2017	1.05	4.28		6.65	2.3				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			1.95						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								11.9	
5/5/2017									
5/8/2017						35.7	15.2		27.2
5/26/2017									
6/27/2017									
6/28/2017	1.06	4.95							
6/29/2017			2.02	6.04	2.54				
6/30/2017						36.2			27.2
7/5/2017									
7/7/2017									
7/10/2017							17.4	12.7	
7/11/2017									
7/17/2017									
10/3/2017				8.28					
10/4/2017	1.1		2.03		2.25				
10/5/2017		5.28							
10/6/2017						39.8			
10/9/2017									27.3
10/10/2017							15.5	11.4	
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									
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						
6/12/2018						36.2			
6/13/2018							15.5	12.5	29.4
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	1	4.6	2.1	10.4 (J)	2.3				
9/26/2018									
10/1/2018									
10/2/2018						39.1	14.7	12.4 (J)	29.2
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						38			27.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	28.1		33.5					
5/8/2017		11.2		14.6	14.2			
5/26/2017						26.2		
6/27/2017								
6/28/2017						26.1		
6/29/2017								
6/30/2017								
7/5/2017		11.9	33.4					
7/7/2017	28.6							
7/10/2017								
7/11/2017				14.3				
7/17/2017					14.1			
10/3/2017						26.7		
10/4/2017								
10/5/2017		12	36.4					
10/6/2017								
10/9/2017	27.3							
10/10/2017				12.1				
10/11/2017							2.74	
10/12/2017								2.9
10/16/2017					13.6			
11/20/2017							1.81	10.4
1/10/2018								10.2
1/11/2018							1.54	
2/19/2018					<25			<25
2/20/2018							1.71	
4/2/2018				<25				
4/3/2018							1.4	6.3
6/5/2018								
6/6/2018								
6/7/2018						25		
6/8/2018								
6/11/2018		12.1						
6/12/2018	26.4		33.4					
6/13/2018								
6/28/2018							1.4	6.7
8/6/2018					11.4 (J)			
8/7/2018							1.2	6.3
9/19/2018				11.1 (J)				
9/24/2018							1.1	5.7
9/25/2018								
9/26/2018								
10/1/2018						25		
10/2/2018		11.7 (J)						
10/3/2018	25.8		32.6					
2/25/2019					12.7 (J)			
3/26/2019								5.6
3/27/2019				10.8 (J)			1.5	
3/28/2019								
3/29/2019						23.5 (J)		
4/1/2019		11.9 (J)	33.8					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		1.4	1.1			7		4.3	
6/28/2017	1.2						1.3		
6/29/2017					4.2				
6/30/2017				3.7					1.8
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		1.7	1.1			6.5		4.2	
10/4/2017	1.2						1.5		1.8
10/5/2017				3.8	4.7				
10/6/2017									
10/9/2017									
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									
6/5/2018			1.1						
6/6/2018		1.4				4.7			
6/7/2018					4.4		1.2	4.5	
6/8/2018	1.2			3.4					
6/11/2018									2
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					4.8	4.8		5.1	
10/1/2018	1.2	1.4	1.1	3.8			1.5		
10/2/2018									1.8
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		1.5	1.4						
3/29/2019				4.2					
4/1/2019	1.1						1.2		1.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/2/2019									
4/3/2019					4.3	4		4.2	
6/12/2019									
9/24/2019		1.3	1.1			3.7		4.5	
9/25/2019	1.1			4.8	4.5		1.1		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
3/20/2020									
3/24/2020						3.5		4.3	
3/25/2020					3.9				
9/22/2020					4.5	3.6		4.2	
9/23/2020	1	1.2	0.99 (J)				1.1		
9/24/2020									1.5
9/25/2020				5.3					
3/1/2021									1.6
3/2/2021				4.9		3.2		4.3	
3/3/2021	0.99 (J)	1.2	0.96 (J)		4.1		1.1		
3/4/2021									
8/19/2021		1.3	1.1	5			1.1		1.6
8/20/2021									
8/26/2021					4.4	3.4		4.3	
8/27/2021	1.1								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1.1	1.3	1				1.1		
2/10/2022				4.7		3.2		4.4	
2/11/2022					4.1				2.1

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			4.5	2.8	1.9				
6/8/2016						22	19	18	14
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7	4.5		1.9				
7/28/2016				2.6					
8/1/2016						21	17	16	13
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	6.1		4.5						
9/19/2016		7		2.4	1.9				
9/20/2016						22	18	18	13
9/21/2016									
11/1/2016									
11/2/2016					2.6				
11/3/2016	7.4	7.5	5.4	2.9					
11/4/2016									
11/7/2016						24	17	16	14
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.1	6.5	4.7						
1/12/2017									
1/13/2017				2.5	2.3				
1/16/2017									
1/18/2017							19	17	14
1/19/2017						22			
2/21/2017							18	16	
2/22/2017						21			
2/23/2017									14
2/24/2017									
3/1/2017	6	6.9							
3/2/2017			4.8						
3/3/2017									
3/6/2017				2.1	1.9				
3/7/2017									
3/8/2017									
4/26/2017	6.5	7		2.1	2				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			4.6						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								17	
5/5/2017									
5/8/2017						22	18		14
5/26/2017									
6/27/2017									
6/28/2017	6.4	7							
6/29/2017			4.5	2.8	2.6				
6/30/2017						21			14
7/5/2017									
7/7/2017									
7/10/2017							19	15	
7/11/2017									
7/17/2017									
10/3/2017				2.2					
10/4/2017	6.8		4.7		2.6				
10/5/2017		7							
10/6/2017						21			
10/9/2017									14
10/10/2017							19	15	
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									
6/5/2018				1.7					
6/6/2018					2.7				
6/7/2018		6.8							
6/8/2018									
6/11/2018	6.8		4.9						
6/12/2018						19.8			
6/13/2018							18.1	14.2	13.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	7.8	7.9	5.6	2.2	3.6				
9/26/2018									
10/1/2018									
10/2/2018						19.9	18.3	14	13.8
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						19.7			14.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	21		19					
5/8/2017		15		5.8	4.2			
5/26/2017						0.93		
6/27/2017								
6/28/2017						1		
6/29/2017								
6/30/2017								
7/5/2017		14	18					
7/7/2017	20							
7/10/2017								
7/11/2017				5.8				
7/17/2017					3.8			
10/3/2017						1.2		
10/4/2017								
10/5/2017		15	19					
10/6/2017								
10/9/2017	20							
10/10/2017				5.9				
10/11/2017							2.4	
10/12/2017								3.8
10/16/2017					4.2			
11/20/2017							1.8	4.4
1/10/2018								4.6
1/11/2018							1.6	
2/19/2018					4.3			4.6
2/20/2018							2	
4/2/2018				4.8				
4/3/2018							3.3	5.9
6/5/2018								
6/6/2018								
6/7/2018						1		
6/8/2018								
6/11/2018		13.6						
6/12/2018	19.3		17.6					
6/13/2018								
6/28/2018							2.1	5
8/6/2018					3.8			
8/7/2018							1.2	4.3
9/19/2018				4				
9/24/2018							1.3	4.9
9/25/2018								
9/26/2018								
10/1/2018						1.1		
10/2/2018		13.4						
10/3/2018	20.2		17.7					
2/25/2019					4.1			
3/26/2019								4.4
3/27/2019				4.3			1.4	
3/28/2019								
3/29/2019						1.2		
4/1/2019		13.1	17.2					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
6/1/2016	<0.1	0.15 (J)	0.12 (J)						
6/2/2016				<0.1	0.11 (J)	<0.1	<0.1	0.62	<0.1
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	0.06 (J)	0.14 (J)				0.06 (J)			
7/26/2016			0.08 (J)	<0.1	0.05 (J)		<0.1	0.49	0.02 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	<0.1		0.11 (J)						
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			
9/20/2016									
9/21/2016									
11/1/2016		<0.1	<0.1			<0.1		0.68	
11/2/2016					<0.1		<0.1		<0.1
11/3/2016									
11/4/2016	<0.1			<0.1					
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									<0.1
1/11/2017		0.09 (J)	0.05 (J)					0.49	
1/12/2017				<0.1	0.04 (J)				
1/13/2017							<0.1		
1/16/2017	<0.1					<0.1			
1/18/2017									
1/19/2017									
2/21/2017						<0.1			
2/22/2017									
2/23/2017									
2/24/2017									
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)				<0.1		0.48	<0.1
4/27/2017	0.01 (J)		0.04 (J)						
4/28/2017									
5/1/2017					<0.1		<0.1		
5/2/2017				<0.1					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
5/3/2017									
5/5/2017									
5/8/2017									
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		
6/30/2017						<0.1			<0.1
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
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
10/6/2017									
10/9/2017									
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		
3/30/2018									
4/2/2018									
4/3/2018									
6/5/2018			0.055 (J)						
6/6/2018	<0.1				0.15 (J)				
6/7/2018				<0.1			<0.1	0.48	
6/8/2018		0.2 (J)							<0.1
6/11/2018						<0.1			
6/12/2018									
6/13/2018									
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			
10/3/2018									
2/25/2019									
2/26/2019						<0.1			<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
2/9/2022	<0.1	0.097 (J)	0.057 (J)					0.43	
2/10/2022				<0.1	0.055 (J)				<0.1
2/11/2022						<0.1	<0.1		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1				
6/8/2016						<0.1	0.12 (J)	0.094 (J)	0.086 (J)
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1	<0.1					
7/28/2016					0.02 (J)				
8/1/2016						0.24 (J)	0.22 (J)	0.08 (J)	0.14 (J)
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	<0.1		<0.1						
9/19/2016		<0.1		<0.1	0.02 (J)				
9/20/2016						0.03 (J)	0.32	0.05 (J)	<0.1
9/21/2016									
11/1/2016									
11/2/2016				<0.1					
11/3/2016	<0.1	<0.1	<0.1		<0.1				
11/4/2016									
11/7/2016						0.44	<0.1 (*)	<0.1 (*)	<0.1 (*)
11/8/2016									
11/14/2016									
11/28/2016									
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									
1/18/2017						<0.1 (*)		0.11 (J)	<0.1 (*)
1/19/2017							0.25 (J)		
2/21/2017						<0.1 (*)		<0.1 (*)	
2/22/2017							0.21 (J)		
2/23/2017									<0.1 (*)
2/24/2017									
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		<0.1	0.04 (J)				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			<0.1						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
2/27/2019						<0.1	0.14 (J)	<0.1	<0.1
3/4/2019									
3/5/2019	<0.1		<0.1	<0.1	0.32				
3/6/2019		<0.1							
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							0.088 (J)		0.034 (J)
4/2/2019			<0.1		0.12 (J)	<0.1		0.071 (J)	
4/3/2019	<0.1	<0.1		<0.1					
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019					0.15 (J)				
9/25/2019			<0.1	<0.1		<0.1		0.064 (J)	
9/26/2019	<0.1	<0.1					0.22 (J)		0.14 (J)
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020	<0.1	<0.1	<0.1						
2/12/2020				<0.1	0.1 (J)				
2/13/2020						<0.1	0.11 (J)	<0.1	<0.1
3/17/2020									
3/18/2020									
3/19/2020						<0.1			
3/20/2020							0.097 (J)	0.06 (J)	<0.1
3/24/2020	<0.1	<0.1	<0.1	<0.1	0.081 (J)				
3/25/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020	<0.1	<0.1	<0.1						
9/24/2020				<0.1	0.079 (J)	<0.1	0.092 (J)	0.053 (J)	0.059 (J)
9/25/2020									
2/8/2021									
2/9/2021	<0.1	<0.1		<0.1	0.092 (J)				
2/10/2021						<0.1	0.084 (J)	0.05 (J)	0.055 (J)
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021						<0.1			
3/3/2021	<0.1	<0.1	<0.1	<0.1			<0.1	0.05 (J)	0.058 (J)
3/4/2021					0.091 (J)				
8/19/2021						<0.1			
8/20/2021							0.11	<0.1	0.091 (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							0.087 (J)		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/27/2019	0.14 (J)	0.15 (J)	0.22 (J)			0.12 (J)		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								<0.1
3/27/2019				0.081 (J)			<0.1	
3/28/2019								
3/29/2019						0.13 (J)		
4/1/2019	0.078 (J)	0.059 (J)						
4/2/2019			0.14 (J)					
4/3/2019								
6/12/2019					0.12 (J)			
8/19/2019					<0.1			
8/20/2019				<0.1				
8/21/2019							<0.1	<0.1
9/24/2019						0.081 (J)		
9/25/2019		0.054 (J)						
9/26/2019	0.29 (J)		0.28 (J)					
10/8/2019				0.034 (J)	0.052 (J)			
10/9/2019							<0.1	<0.1
2/10/2020								
2/11/2020						0.075 (J)		
2/12/2020							<0.1	<0.1
2/13/2020	0.14 (J)	0.053 (J)	0.18 (J)					
3/17/2020				<0.1	0.053 (J)			
3/18/2020								
3/19/2020	0.07 (J)		0.16 (J)			0.093 (J)		
3/20/2020		0.057 (J)						
3/24/2020								<0.1
3/25/2020							<0.1	
8/26/2020					0.068 (J)			
8/27/2020				<0.1				
9/22/2020				<0.1	0.058 (J)			
9/23/2020						0.08 (J)		
9/24/2020	0.073 (J)	0.06 (J)	0.16				<0.1	<0.1
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021						0.094 (J)	<0.1	<0.1
2/11/2021	0.066 (J)							
2/12/2021		0.17	0.069 (J)					
3/1/2021				<0.1				
3/2/2021					0.073 (J)			
3/3/2021	0.072 (J)	0.056 (J)	0.13			0.085 (J)		
3/4/2021							<0.1	<0.1
8/19/2021				<0.1				
8/20/2021	0.11	0.069 (J)	0.2		0.06 (J)			
8/26/2021							0.063 (J)	
8/27/2021						0.12		
9/1/2021								
9/3/2021								<0.1
2/8/2022	0.063 (J)	0.053 (J)	0.14	<0.1	0.064 (J)		0.052 (J)	<0.1

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018							5.63	7.13	5.84
10/1/2018		7.47	6.8	5.9	7.39	5.39			
10/2/2018									
10/3/2018									
2/25/2019	6.51								
2/26/2019						5.46			
2/27/2019		7.54	6.84	5.8	7.55				
3/4/2019							5.75	7.46	6.18
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019			6.99	6.15					
3/29/2019						5.34			
4/1/2019		7.74			7.87				
4/2/2019									
4/3/2019							5.63	7.11	6.43
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
9/24/2019			7.07	6.23			5.6	6.93	
9/25/2019		7.47			7.64	5.19			6.2
9/26/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020			7.2	6.1					
2/11/2020		7.09							
2/12/2020					7.83	5.48	5.83	7.52	6.15
2/13/2020									
3/17/2020	6.14								
3/18/2020				6.19		5.38			
3/19/2020		7.31	7.03		7.65				
3/20/2020									
3/24/2020							5.81	7.34	
3/25/2020									6.26
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020									
9/22/2020	5.78						5.99	7.19	5.8
9/23/2020		7.37	7.15	6.01	7.57				
9/24/2020									
9/25/2020						5.44			
2/8/2021							5.67		
2/9/2021									6.06
2/10/2021		7.58			7.81	5.35			

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27I	YGWC-27S	YGWC-26I
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		6.17	5.71						
6/7/2016				5.62	5.77	6.1			
6/8/2016							6.32	6.24	5.85
6/9/2016									
7/25/2016	5.82								
7/26/2016									
7/27/2016		6.14	5.46	5.59	5.79				
7/28/2016						6.12			
8/1/2016							6.34	6.12	5.83
8/2/2016									
8/30/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016				5.58					
9/19/2016	5.78 (D)	6.04	5.59		5.73	6.12			
9/20/2016							6.36	6.3	5.89
9/21/2016									
11/1/2016	5.62								
11/2/2016					5.67				
11/3/2016		5.97	5.39	5.59		6.07			
11/4/2016									
11/7/2016							6.3	6.25	5.91
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		6.05	5.48	5.59					
1/12/2017									
1/13/2017					5.79	6.41			
1/16/2017	5.72								
1/18/2017							6.31		5.84
1/19/2017								6.2	
2/21/2017	5.67								5.79
2/22/2017								6.14	
2/23/2017							6.18		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27I	YGWC-27S	YGWC-26I
2/24/2017									
3/1/2017		5.94	5.41						
3/2/2017				5.54					
3/3/2017									
3/6/2017					5.63	6.34			
3/7/2017									
3/8/2017									
4/26/2017	5.56	5.99	5.4		5.66	6.32			
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				5.47					
5/3/2017									
5/5/2017									
5/8/2017							6.24	6.11	5.84
5/26/2017									
6/27/2017									
6/28/2017		6	5.36						
6/29/2017				5.56	5.85	6.47			
6/30/2017	5.72						6.21	6.17	
7/5/2017									
7/7/2017									
7/10/2017									5.92
7/11/2017									
7/17/2017									
10/3/2017						6.56			
10/4/2017	5.87		5.32	5.57	5.83				
10/5/2017		6.11							
10/6/2017								6.13	
10/9/2017							6.26		
10/10/2017									5.84
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	5.83								
3/28/2018		6.1	5.34	5.59					
3/29/2018					5.93	6.75	6.36	6.25	
3/30/2018									6.19
4/2/2018									
4/3/2018									
6/5/2018						6.09			
6/6/2018					5.86				
6/7/2018		5.98							
6/8/2018									
6/11/2018	5.69		5.28	5.58					
6/12/2018								6.22	
6/13/2018							6.28		5.82

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27I	YGWC-27S	YGWC-26I
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018		5.81	4.86	5.59	5.84	6.67			
9/26/2018									
10/1/2018									
10/2/2018	5.39						5.9	5.99	5.81
10/3/2018									
2/25/2019									
2/26/2019	5.77								
2/27/2019							6.31	6.26	5.79
3/4/2019									
3/5/2019			5.26	5.48	6.07	7.22			
3/6/2019		5.99							
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019	5.62						6.43	6.4	
4/2/2019				5.74		6.94			5.87
4/3/2019		6.29	5.47		5.71				
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019						6.87			
9/25/2019	5.69			5.49	5.86				5.79
9/26/2019		6.04	5.2				6.3	6.22	
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020		6.07	5.3	5.58					
2/12/2020	5.8				6	7.13			
2/13/2020							6.4	6.31	5.93
3/17/2020									
3/18/2020									
3/19/2020	6								
3/20/2020							6.32	6.18	5.94
3/24/2020		5.98	5.33	5.57	5.86	6.35			
3/25/2020									
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020		6.01	5.29	5.58					
9/24/2020	5.67				5.8	6.7	6.36	6.27	5.86
9/25/2020									
2/8/2021									
2/9/2021		6.12	5.43		5.86	6.95			
2/10/2021							6.29	6.21	5.96

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/24/2017					5.49			
3/1/2017								
3/2/2017								
3/3/2017						7.22		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						7.21		
5/1/2017								
5/2/2017								
5/3/2017	5.28							
5/5/2017		6.4		6.36				
5/8/2017			6.11		5.58			
5/26/2017						7.13		
6/27/2017								
6/28/2017						7.06		
6/29/2017								
6/30/2017								
7/5/2017			6.17	6.4				
7/7/2017		6.46						
7/10/2017	5.25							
7/11/2017					5.58			
7/17/2017								
10/3/2017						6.99		
10/4/2017								
10/5/2017			6.17	6.43				
10/6/2017								
10/9/2017		6.37						
10/10/2017	5.17				5.49			
10/11/2017						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			6.09					
3/30/2018	5.19	6.35		6.39				
4/2/2018					6.3 (o)			
4/3/2018						6.87		5.84
6/5/2018								
6/6/2018								
6/7/2018						7.29		
6/8/2018								
6/11/2018			6.17					
6/12/2018		6.47		6.42				
6/13/2018	5.12							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/28/2018							6.18	5.24
8/6/2018								
8/7/2018							6.08	5.18
9/19/2018					5.48			
9/24/2018							5.81	5.14
9/25/2018								
9/26/2018								
10/1/2018						7.07		
10/2/2018	4.95		6.17					
10/3/2018		6.01		6.21				
2/25/2019								
2/26/2019								
2/27/2019	5	6.38	6.19	6.32		7.27		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								5.3
3/27/2019					5.83		5.84	
3/28/2019								
3/29/2019						7.06		
4/1/2019			6.03	6.3				
4/2/2019	5.13	6.7						
4/3/2019								
6/12/2019								
8/19/2019								
8/20/2019					5.58			
8/21/2019							5.96	5.26
9/24/2019						7.01		
9/25/2019	5.24		6.21					
9/26/2019		6.47		6.43				
10/8/2019					5.59			
10/9/2019							5.81	5.22
2/10/2020								
2/11/2020						7.38		
2/12/2020							5.97	5.3
2/13/2020	5.29	6.53	6.32	6.49				
3/17/2020					5.57			
3/18/2020								
3/19/2020	5.46	6.98		7.01		7.22		
3/20/2020			6.17					
3/24/2020								5.29
3/25/2020							5.78	
5/6/2020								
8/26/2020								
8/27/2020					4.88			
9/22/2020					5.46			
9/23/2020						7.22		
9/24/2020	5.46	6.53	6.2	6.41			5.7	5.43
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021	5.18					7.29	5.8	5.19

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		6.4	5.9			18		2.1	
6/28/2017	12						5.4		
6/29/2017					9.2				
6/30/2017				6.5					<1
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		5.9	6.6			16		2.3	
10/4/2017	12						6.2		1.4
10/5/2017				7.9	9.6				
10/6/2017									
10/9/2017									
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									
6/5/2018			6.4						
6/6/2018		4.4				8.3			
6/7/2018					8.5		6.7	2	
6/8/2018	9.6			6.4					
6/11/2018									1.1
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					10.2	7.9		2.3	
10/1/2018	9.1	4	5.6	6.8			7.1		
10/2/2018									1
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		4.3	8						
3/29/2019				7.3					
4/1/2019	8.5						7.2		0.96 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/2/2019									
4/3/2019					8.5	7		2.1	
6/12/2019									
9/24/2019		4.3	5.3			5.5		2.4	
9/25/2019	13.8			6.6	8.5		7		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	12.9		10				9		1.6
3/20/2020									
3/24/2020						5.9		2.1	
3/25/2020					8.8				
9/22/2020					8.2	5.5		2.1	
9/23/2020	16.8	3.4	8.1				6.9		
9/24/2020									0.69 (J)
9/25/2020				6.1					
3/1/2021									0.88 (J)
3/2/2021				6		2.6		2.3	
3/3/2021	9.6	4.4	9		7.8		7		
3/4/2021									
8/19/2021		4.9	8.9	6.7			7.5		1
8/20/2021									
8/26/2021					8.5	6		2.4	
8/27/2021	18.2								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	16	5.1	9.3				7.2		
2/10/2022				6.2		4.9		2.4	
2/11/2022					7.7				2.8

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			4.4	5.2	<1				
6/8/2016						26	81	110	3.2
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7	4.7		0.08 (J)				
7/28/2016				5.1					
8/1/2016						27	75	96	3.6
8/2/2016									
8/30/2016									
8/31/2016									
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)				
9/20/2016						21	78	100	5.6
9/21/2016									
11/1/2016									
11/2/2016					0.1 (J)				
11/3/2016	1.9	0.69 (J)	5.3	5					
11/4/2016									
11/7/2016						24	81	100	5.4
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.7	<1	5.2						
1/12/2017									
1/13/2017				4.3	<1				
1/16/2017									
1/18/2017							95	100	3.5
1/19/2017						25			
2/21/2017							80	96	
2/22/2017						24			
2/23/2017									4.9
2/24/2017									
3/1/2017	<1	1.8							
3/2/2017			5						
3/3/2017									
3/6/2017				4.5	<1				
3/7/2017									
3/8/2017									
4/26/2017	1.9	1.6		4.9	<1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			5						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								100	
5/5/2017									
5/8/2017						23	84		3.9
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.2	5.5	<1				
6/30/2017						23			5
7/5/2017									
7/7/2017									
7/10/2017							84	100	
7/11/2017									
7/17/2017									
10/3/2017				5.8					
10/4/2017	1.7		5.3		<1				
10/5/2017		1.6							
10/6/2017						23			
10/9/2017									5.1
10/10/2017							82	97	
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									
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						
6/12/2018						18.1			
6/13/2018							76.5	93.3	6.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	1.5	1	6.1	7	0.13 (J)				
9/26/2018									
10/1/2018									
10/2/2018						20.2	83.9	99	6.1
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						18.3			4.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	<1 (*)		<1 (*)					
5/8/2017		32		120	60			
5/26/2017						12		
6/27/2017								
6/28/2017						11		
6/29/2017								
6/30/2017								
7/5/2017		31	8.1					
7/7/2017	2.7							
7/10/2017								
7/11/2017				110				
7/17/2017					63			
10/3/2017						7.9		
10/4/2017								
10/5/2017		31	8.6					
10/6/2017								
10/9/2017	2.9							
10/10/2017				93				
10/11/2017							20	
10/12/2017								17
10/16/2017					62			
11/20/2017							24	71
1/10/2018								66
1/11/2018							23	
2/19/2018					64.6			57.2
2/20/2018							20.6	
4/2/2018				88.8				
4/3/2018							24.5	49.4
6/5/2018								
6/6/2018								
6/7/2018						8.8		
6/8/2018								
6/11/2018		30.6						
6/12/2018	2.9		8.2					
6/13/2018								
6/28/2018							22	43.8
8/6/2018					42.1			
8/7/2018							20.7	40.5
9/19/2018				75				
9/24/2018							21.2	39.7
9/25/2018								
9/26/2018								
10/1/2018						9.1		
10/2/2018		30.8						
10/3/2018	2.1		8					
2/25/2019					42.1			
3/26/2019								34.3
3/27/2019				65.9			17.7	
3/28/2019								
3/29/2019						9		
4/1/2019		30.4	8.2					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		42	89			189		73	
6/28/2017	126						169		
6/29/2017					79				
6/30/2017				45					42
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		58	119			170		89	
10/4/2017	147						141		31
10/5/2017				40	95				
10/6/2017									
10/9/2017									
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									
6/5/2018			127						
6/6/2018		96				151			
6/7/2018					90		95	142	
6/8/2018	158			114					
6/11/2018									59
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					116	144		86	
10/1/2018	138	60	117	50			165		
10/2/2018									57
10/3/2018									
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

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
4/2/2019									
4/3/2019					111	142		83	
6/12/2019									
9/24/2019		54	124			129		79	
9/25/2019	159			64	117		157		51
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		35		57					
3/19/2020	148		116				146		47
3/20/2020									
3/24/2020						139		68	
3/25/2020					146				
9/22/2020					83	104		75	
9/23/2020	155	15	108				157		
9/24/2020									51
9/25/2020				54					
3/1/2021									23
3/2/2021				67		52		67	
3/3/2021	111	39	99		80		137		
3/4/2021									
8/19/2021		44	105	54			144		50
8/20/2021									
8/26/2021					93	123		86	
8/27/2021	155								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	145	57	105				154		
2/10/2022				56		127		77	
2/11/2022					102				66

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			28	60	38				
6/8/2016						210	220	200	190
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	35	94	74		74				
7/28/2016				81					
8/1/2016						209	211	191	191
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	35		67						
9/19/2016		92		68	45				
9/20/2016						224	217	213	205
9/21/2016									
11/1/2016									
11/2/2016					53				
11/3/2016	48	104	41	61					
11/4/2016									
11/7/2016						291	301	284	264
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	95	133	104						
1/12/2017									
1/13/2017				76	46				
1/16/2017									
1/18/2017							265 (D)	158 (D)	167 (D)
1/19/2017						215 (D)			
2/21/2017							158	137	
2/22/2017						262			
2/23/2017									253
2/24/2017									
3/1/2017	79	119							
3/2/2017			77						
3/3/2017									
3/6/2017				167	164				
3/7/2017									
3/8/2017									
4/26/2017	36	162		50	34				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			142						

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								269	
5/5/2017									
5/8/2017						187	207		174
5/26/2017									
6/27/2017									
6/28/2017	45	98							
6/29/2017			53	94	68				
6/30/2017						209			193
7/5/2017									
7/7/2017									
7/10/2017							219	183	
7/11/2017									
7/17/2017									
10/3/2017				149					
10/4/2017	45		61		54				
10/5/2017		104							
10/6/2017						183			
10/9/2017									185
10/10/2017							194	179	
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									
6/5/2018				109					
6/6/2018					79				
6/7/2018		68							
6/8/2018									
6/11/2018	74		70						
6/12/2018						208			
6/13/2018							228	196	219
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	63	109	86	122	73				
9/26/2018									
10/1/2018									
10/2/2018						206	227	191	227
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						221			198

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 3/21/2022 12:48 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	347		289					
5/8/2017		114		194	145			
5/26/2017						223		
6/27/2017								
6/28/2017						166		
6/29/2017								
6/30/2017								
7/5/2017		136	217					
7/7/2017	236							
7/10/2017								
7/11/2017				193				
7/17/2017					185			
10/3/2017						153		
10/4/2017								
10/5/2017		139	221					
10/6/2017								
10/9/2017	204							
10/10/2017				175				
10/11/2017							68	
10/12/2017								74
10/16/2017					218			
11/20/2017							139	179
1/10/2018								140
1/11/2018							153	
2/19/2018					173			119
2/20/2018							87	
4/2/2018				192				
4/3/2018							85	106
6/5/2018								
6/6/2018								
6/7/2018						146		
6/8/2018								
6/11/2018		156						
6/12/2018	243		234					
6/13/2018								
6/28/2018							88	112
8/6/2018					158			
8/7/2018							89	103
9/19/2018				186				
9/24/2018							82	107
9/25/2018								
9/26/2018								
10/1/2018						155		
10/2/2018		154						
10/3/2018	237		232					
2/25/2019					92			
3/26/2019								90
3/27/2019				170			75	
3/28/2019								
3/29/2019						150		
4/1/2019		147	238					

FIGURE E.

Appendix III Trend Test Summary - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:53 PM

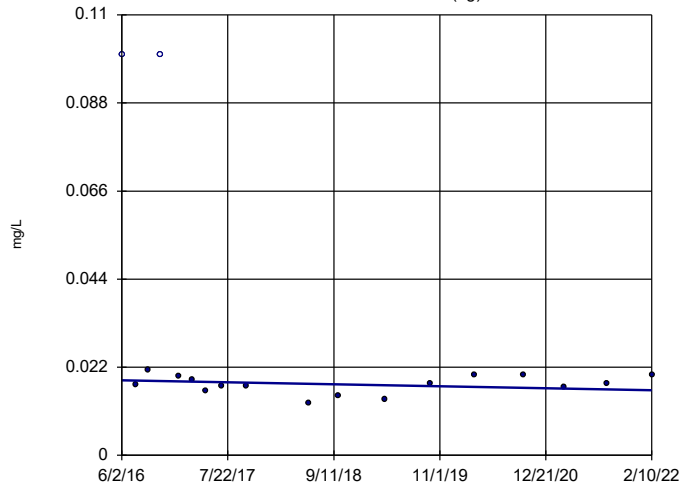
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWC-26I	-0.04006	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.02921	-79	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.05275	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.03927	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.6877	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27S	-1.358	-121	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28I	-0.5198	-92	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4996	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5046	109	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1624	93	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.8339	-113	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 3/21/2022, 12:53 PM

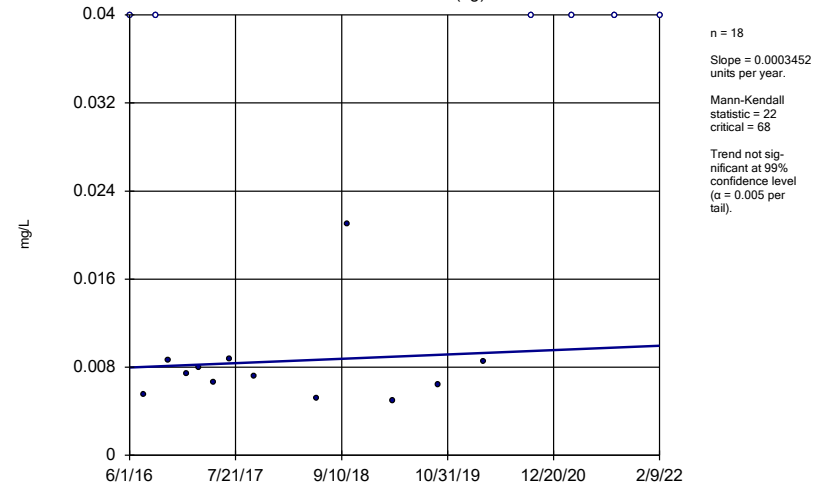
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.0004307	-27	-68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0003452	22	68	No	18	33.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-11 (bg)	0	-13	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21 (bg)	0	-10	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-22	-68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-68	No	18	55.56	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-19	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26I	-0.04006	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26S	0.01343	45	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.06976	49	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	-0.03227	-34	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	0	-1	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	0.002972	11	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.02921	-79	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0007235	-42	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.00005921	8	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-26	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0001172	14	68	No	18	22.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-11	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-46	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.007949	41	53	No	15	6.667	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-5	-68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	26	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-32	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	17	58	No	16	62.5	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1623	47	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.01968	-51	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-11 (bg)	-0.02497	-49	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.03702	-46	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-15	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.05275	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.03927	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.4093	-64	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.6877	-93	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27I	0	-17	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27S	-1.358	-121	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28I	-0.5198	-92	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28S	-0.1931	-31	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4996	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5046	109	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.0841	61	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.1771	67	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1624	93	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21I (bg)	-0.1442	-57	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.6239	40	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2865	51	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.08324	35	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.8339	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5I (bg)	0	1	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2307	58	58	No	16	0	n/a	n/a	0.01	NP

Sen's Slope Estimator
YGWA-14S (bg)



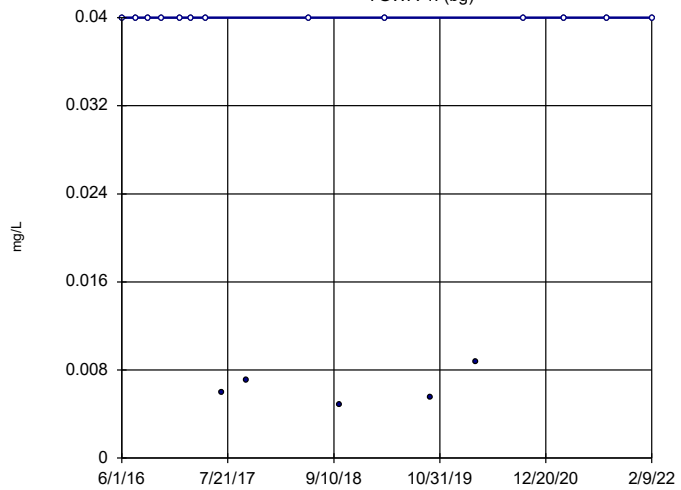
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-1D (bg)



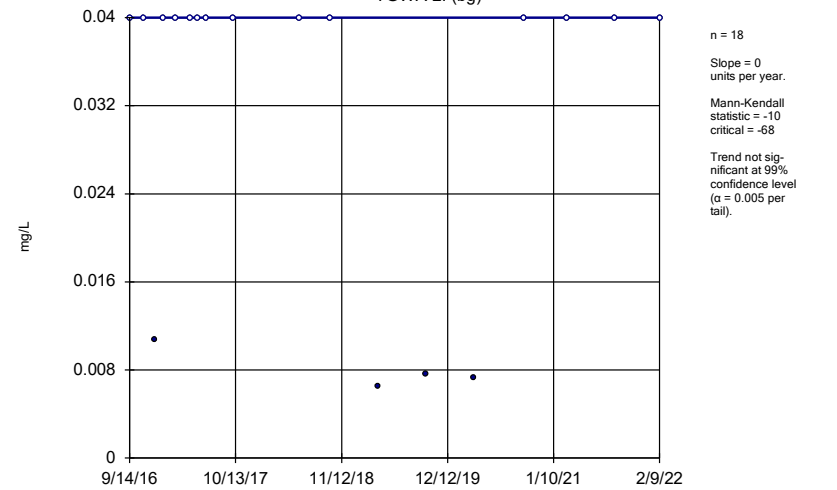
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-11 (bg)



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

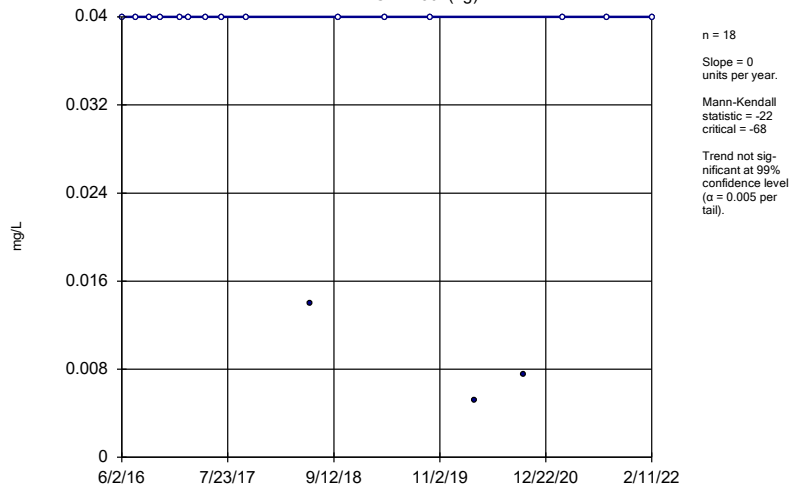
Sen's Slope Estimator
YGWA-2I (bg)



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

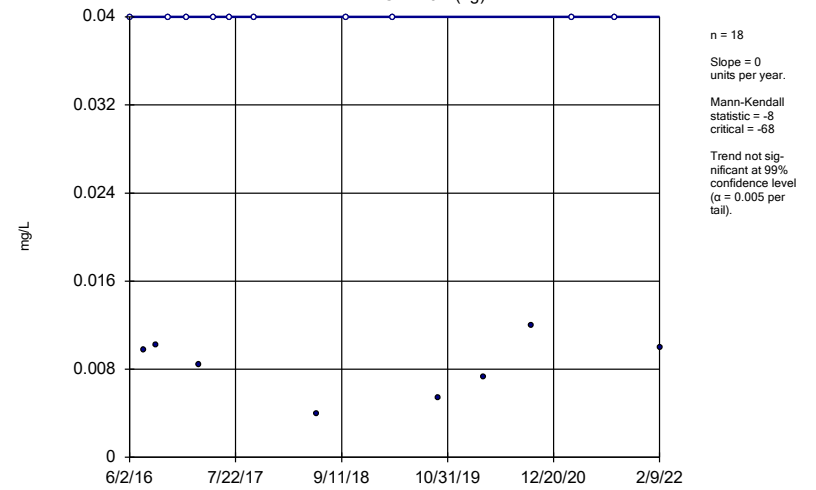
YGWA-30I (bg)



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
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Sen's Slope Estimator

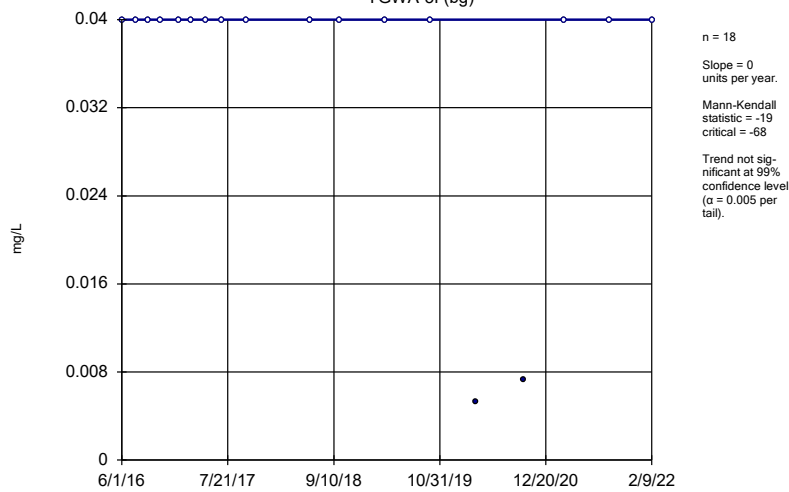
YGWA-3D (bg)



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
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Sen's Slope Estimator

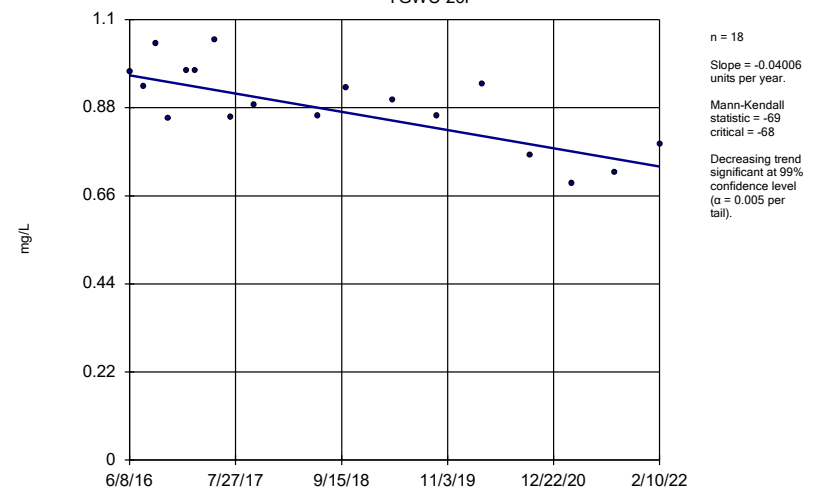
YGWA-3I (bg)



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Sen's Slope Estimator

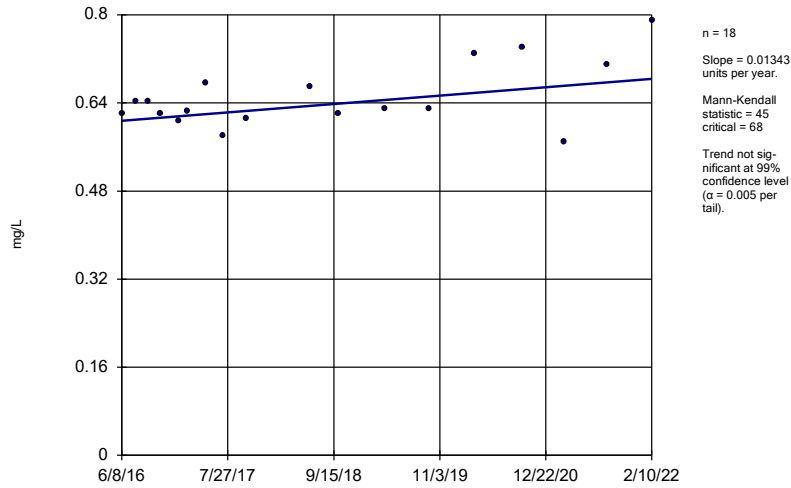
YGWC-26I



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Sen's Slope Estimator

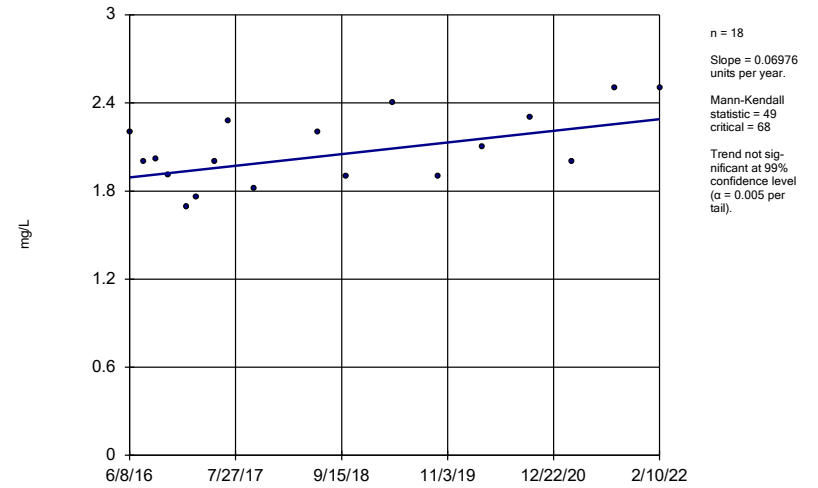
YGWC-26S



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Sen's Slope Estimator

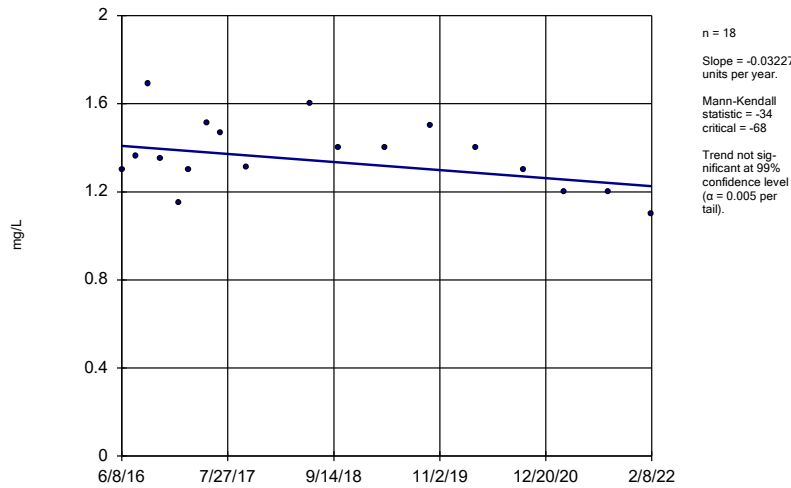
YGWC-27I



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

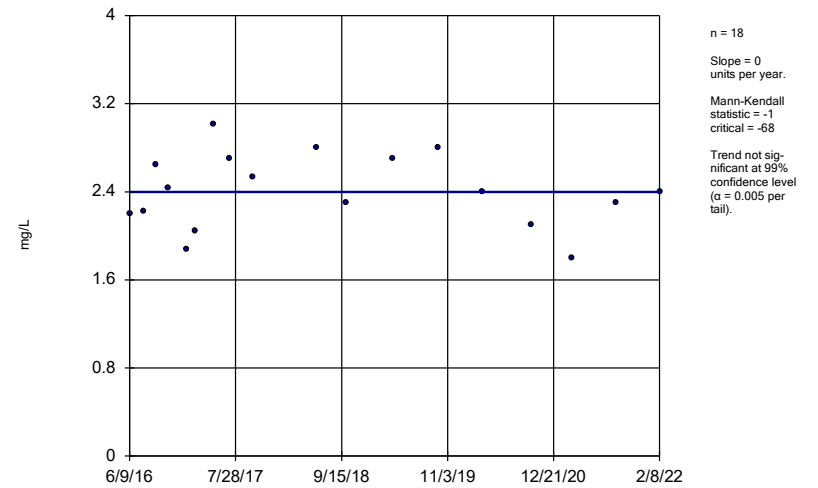
YGWC-27S



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

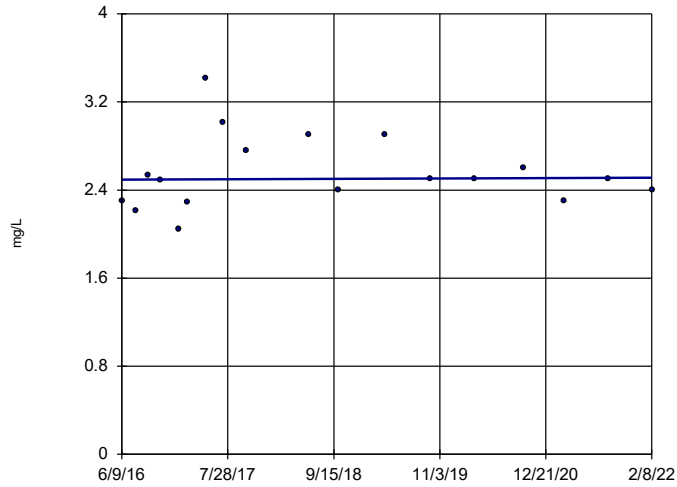
Sen's Slope Estimator

YGWC-28I



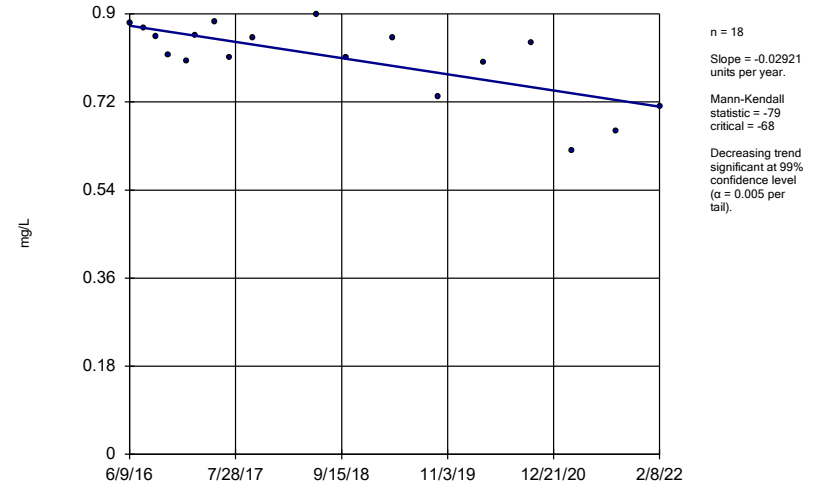
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28S



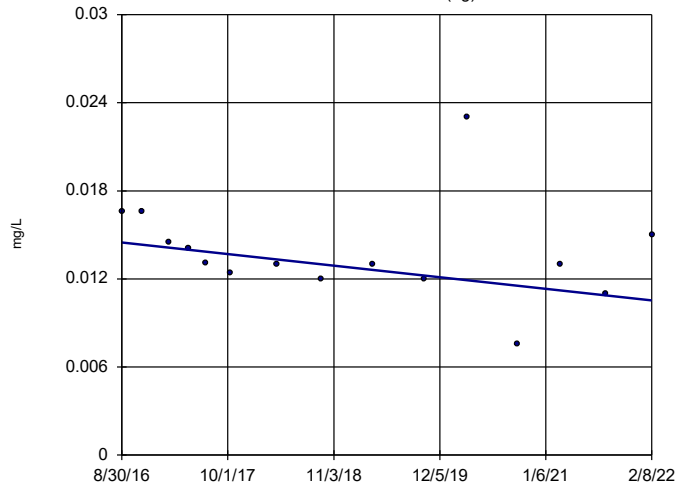
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-29I



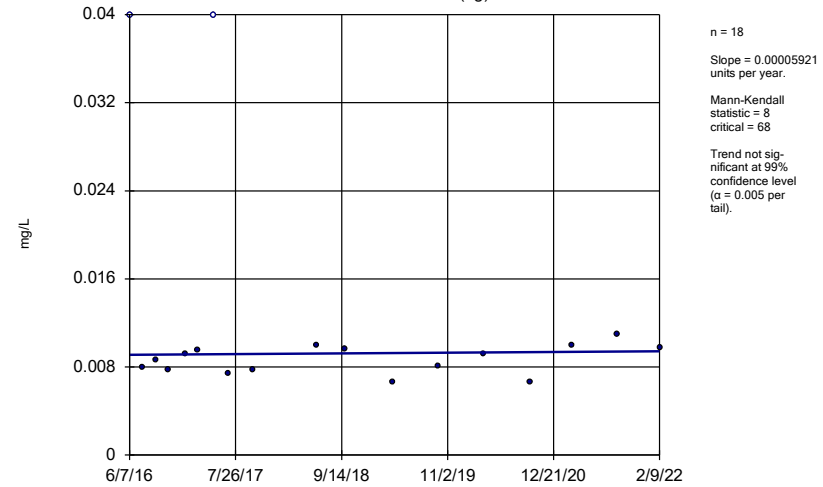
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-47 (bg)



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

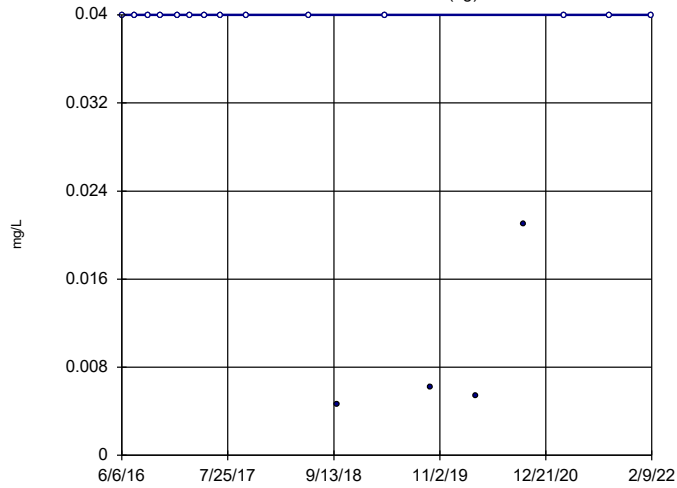
Sen's Slope Estimator YGWA-17S (bg)



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-18I (bg)

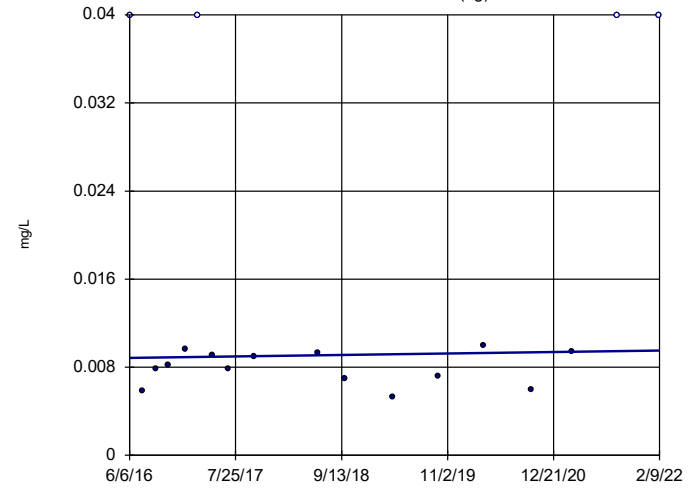


n = 18
Slope = 0
units per year.
Mann-Kendall
statistic = -26
critical = -68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-18S (bg)

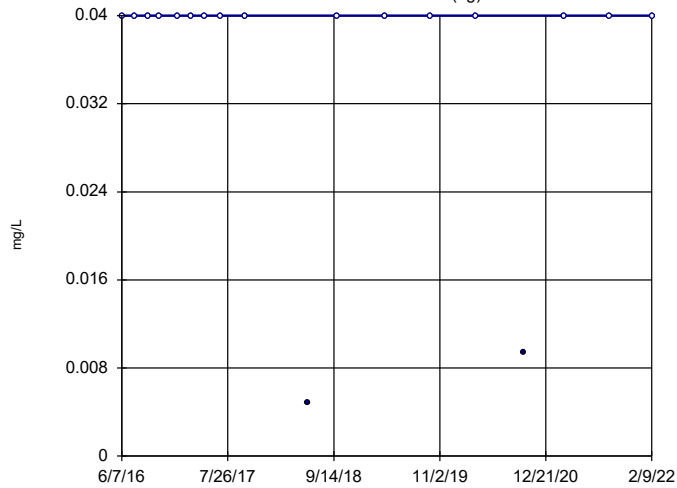


n = 18
Slope = 0.0001172
units per year.
Mann-Kendall
statistic = 14
critical = 68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-20S (bg)

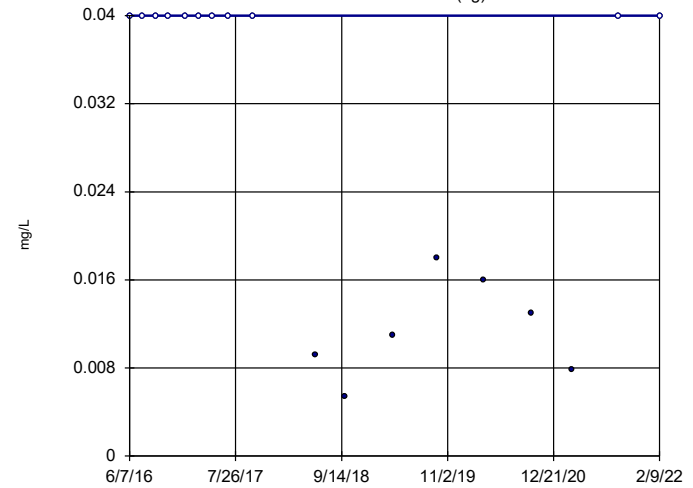


n = 18
Slope = 0
units per year.
Mann-Kendall
statistic = -11
critical = -68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

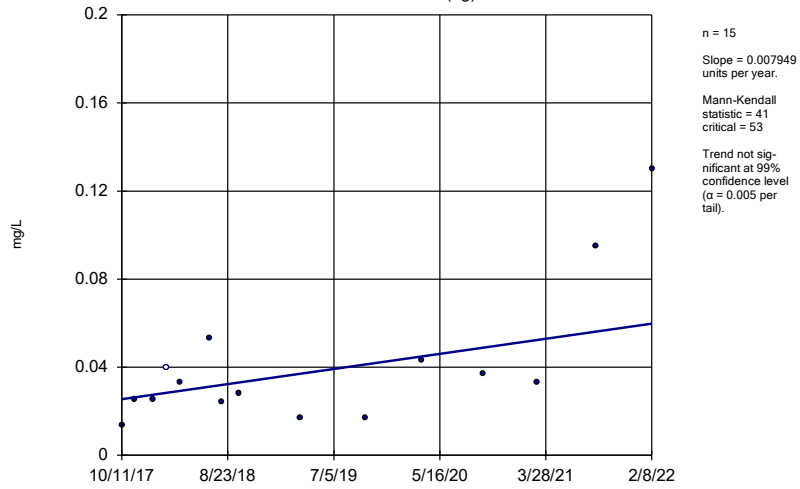
YGWA-21I (bg)



n = 18
Slope = 0
units per year.
Mann-Kendall
statistic = -46
critical = -68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

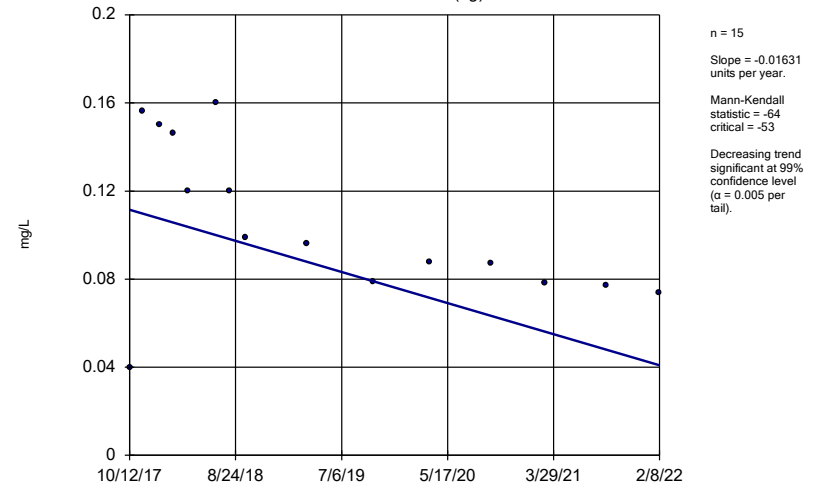
Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-39 (bg)



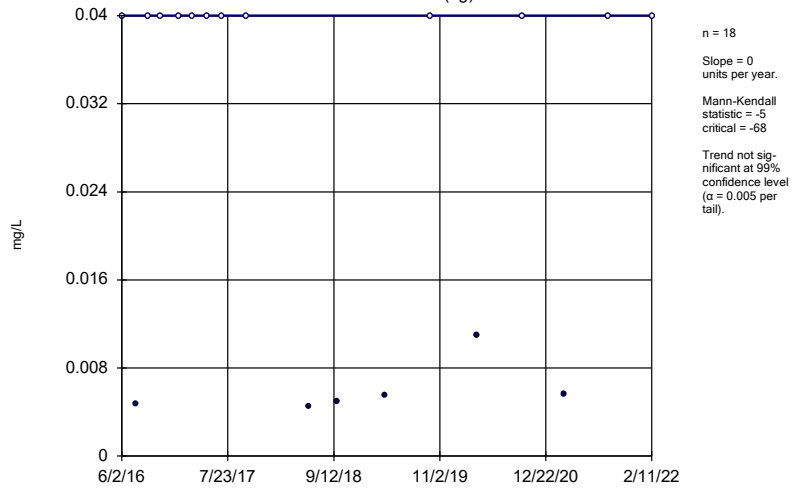
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-40 (bg)



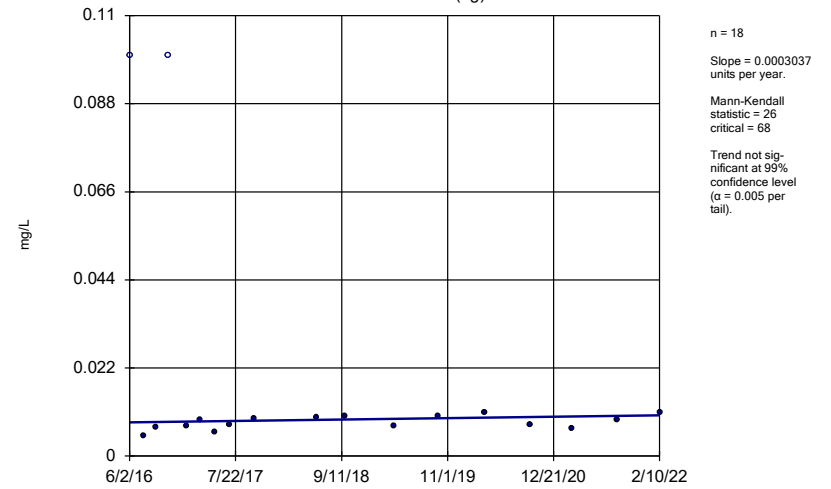
Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-41 (bg)



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

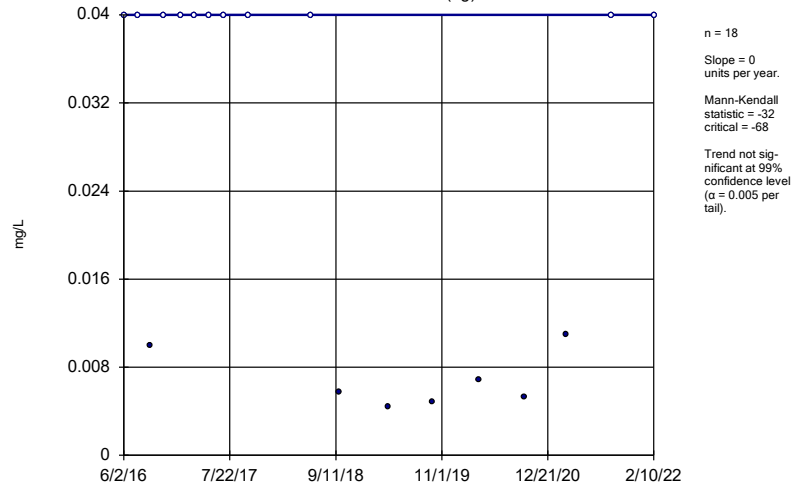
Sen's Slope Estimator
YGWA-5D (bg)



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

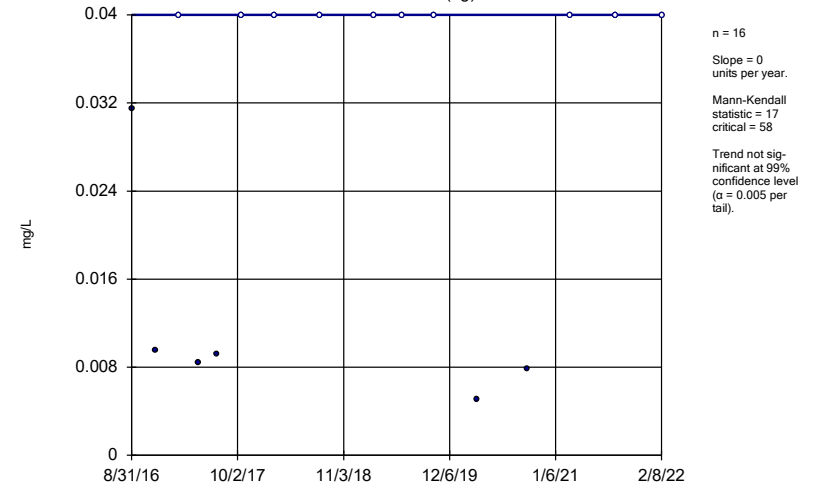
YGWA-5I (bg)



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

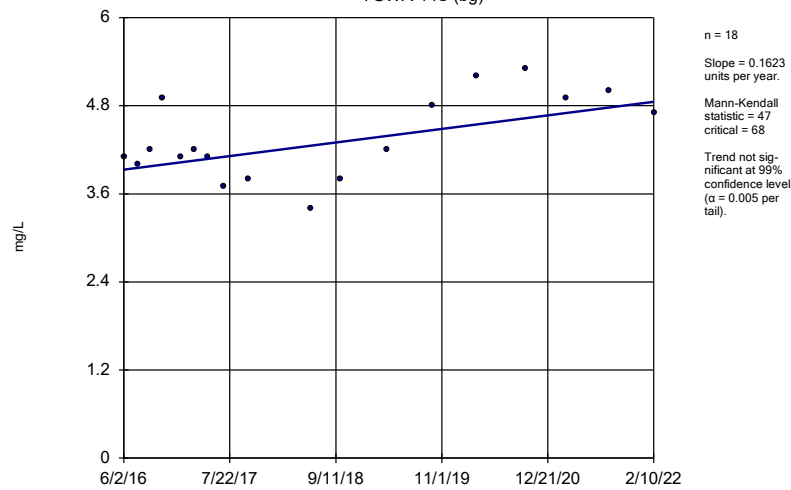
GWA-2 (bg)



Constituent: Boron Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

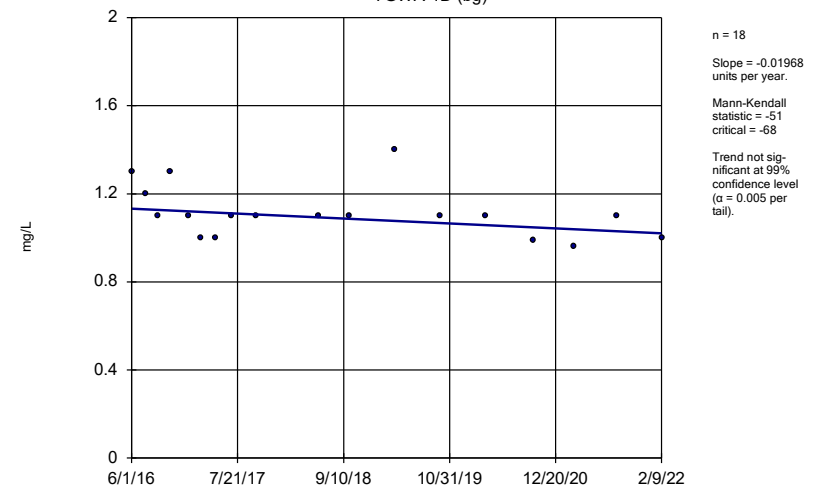
YGWA-14S (bg)



Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

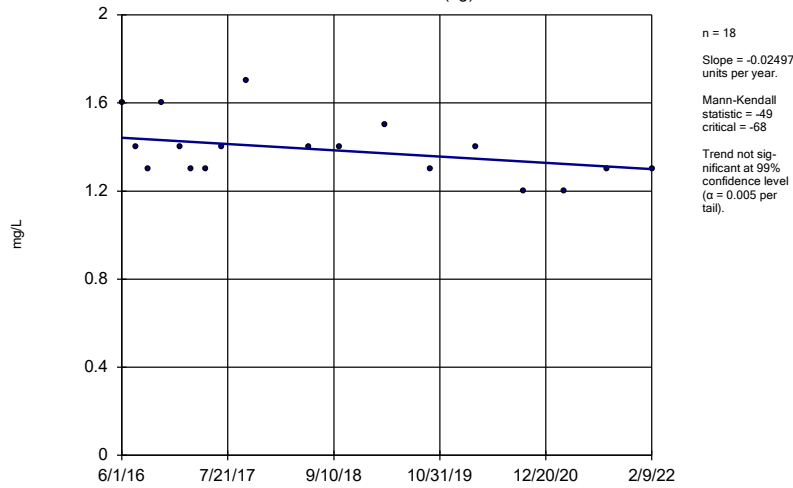
YGWA-1D (bg)



Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

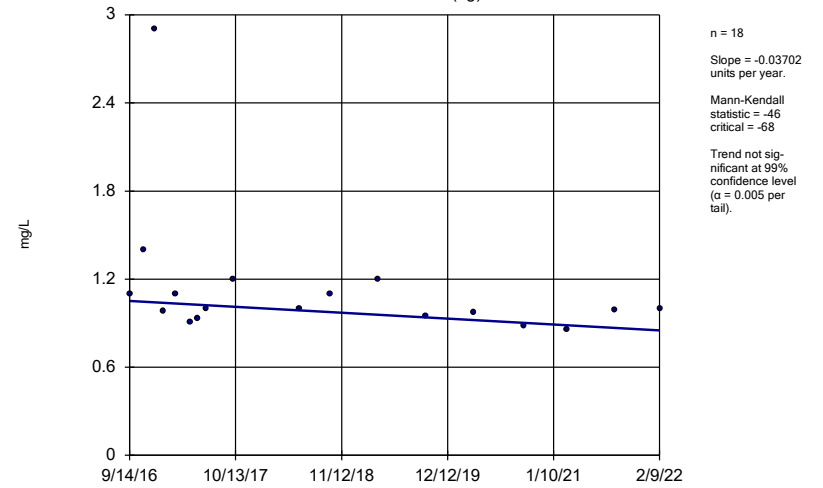
YGWA-11 (bg)



Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

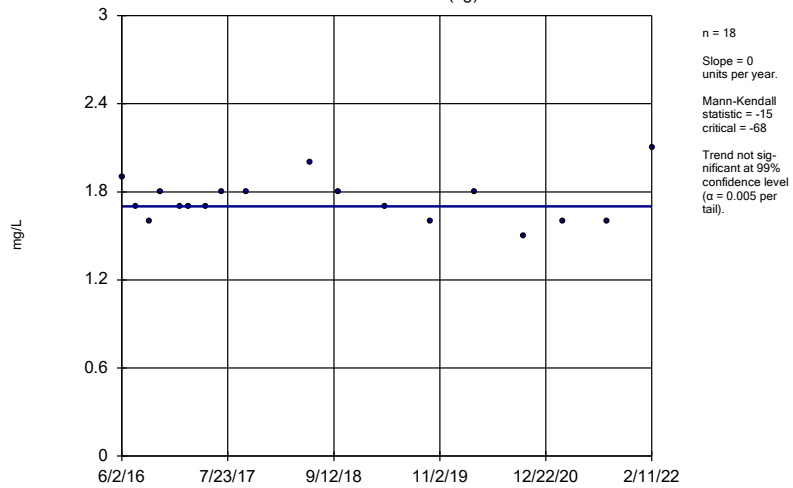
YGWA-21 (bg)



Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

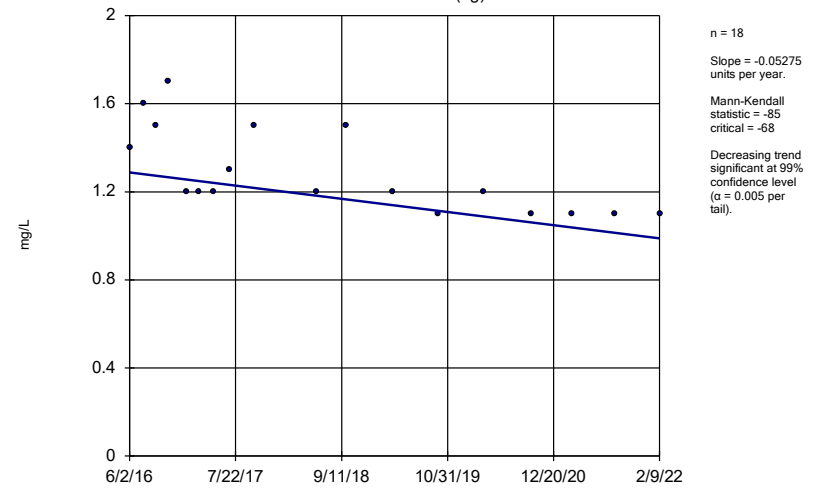
YGWA-30I (bg)



Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

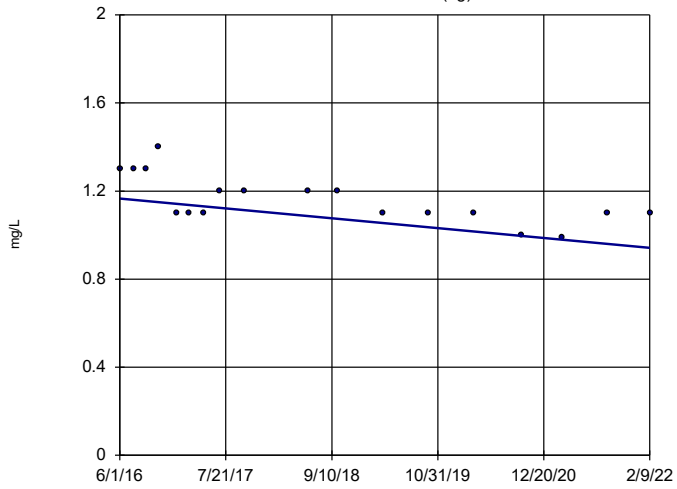
YGWA-3D (bg)



Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

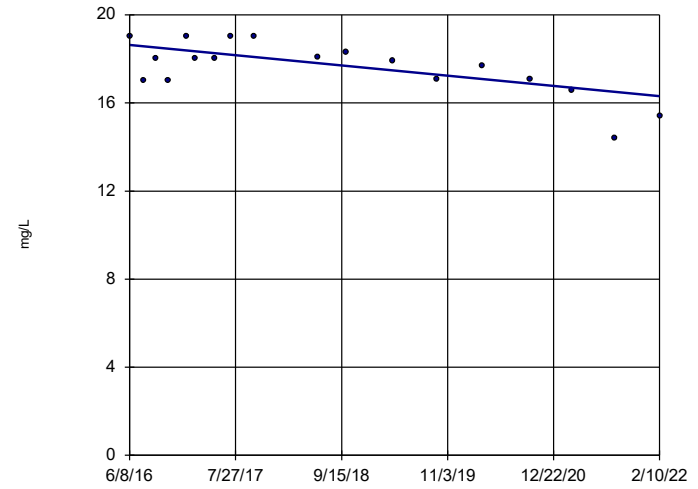


n = 18
 Slope = -0.03927
 units per year.
 Mann-Kendall
 statistic = -78
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26I

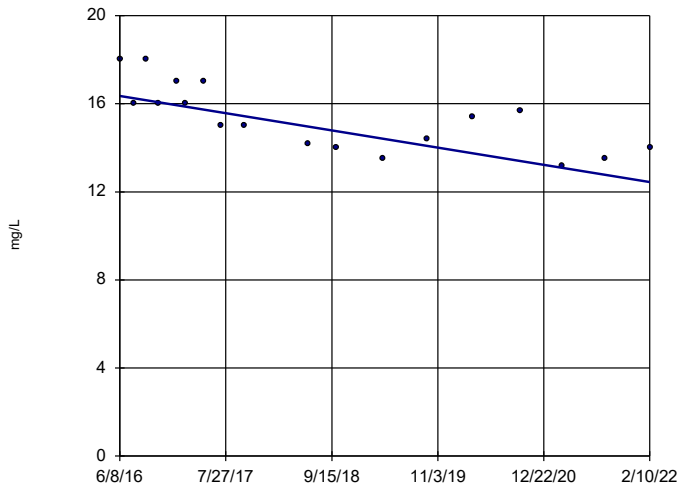


n = 18
 Slope = -0.4093
 units per year.
 Mann-Kendall
 statistic = -64
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 3/21/2022 12:52 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26S

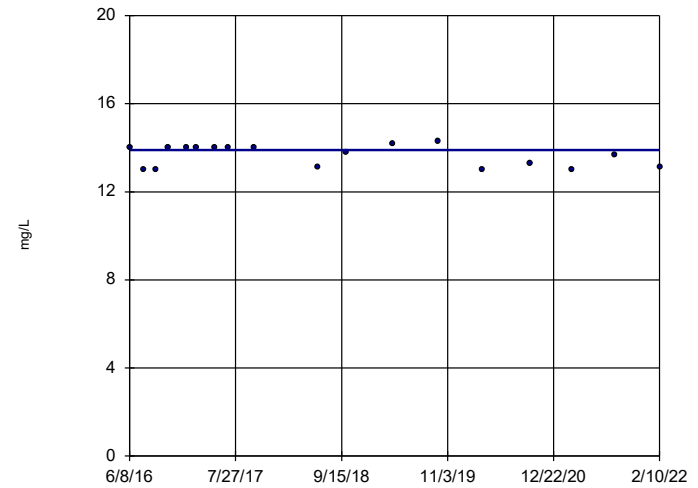


n = 18
 Slope = -0.6877
 units per year.
 Mann-Kendall
 statistic = -93
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

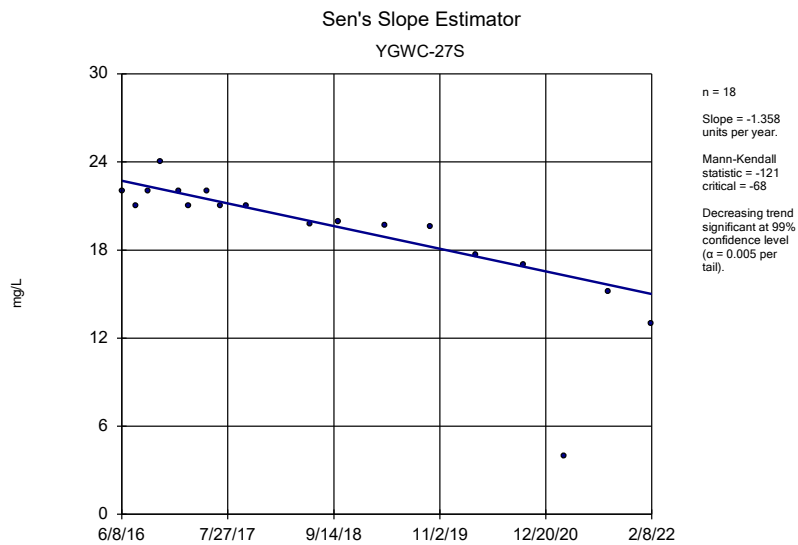
Sen's Slope Estimator

YGWC-27I

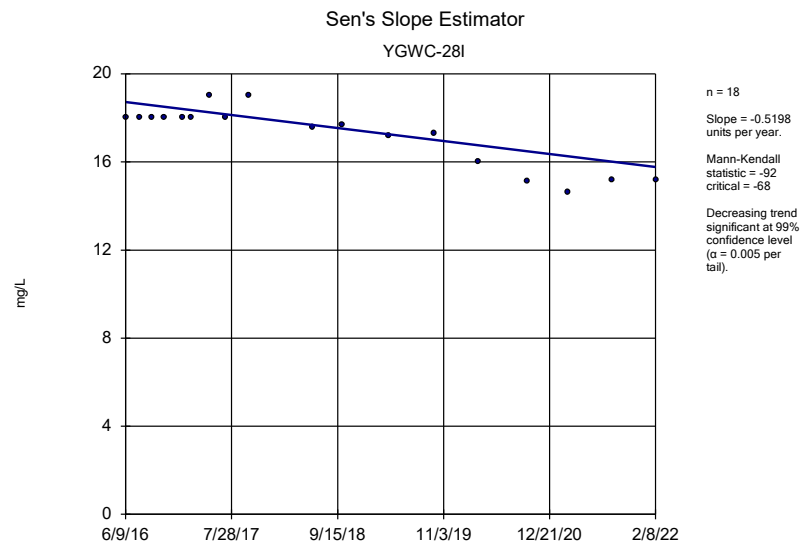


n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -17
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

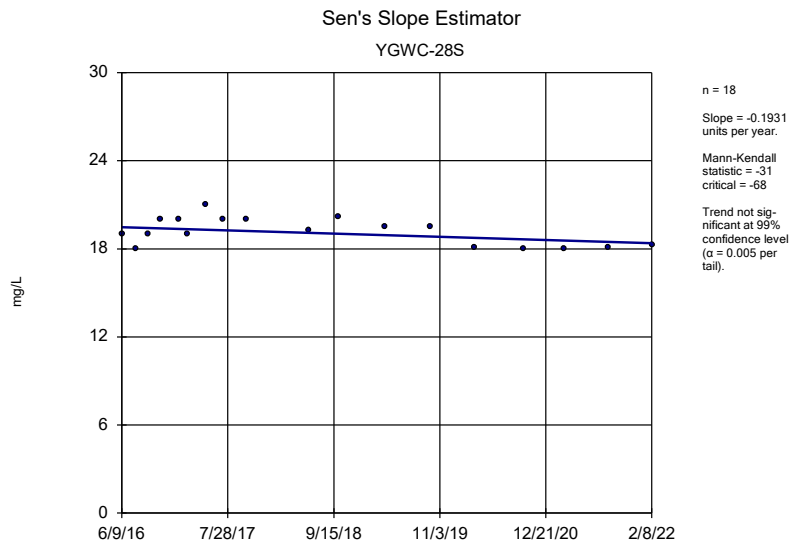
Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



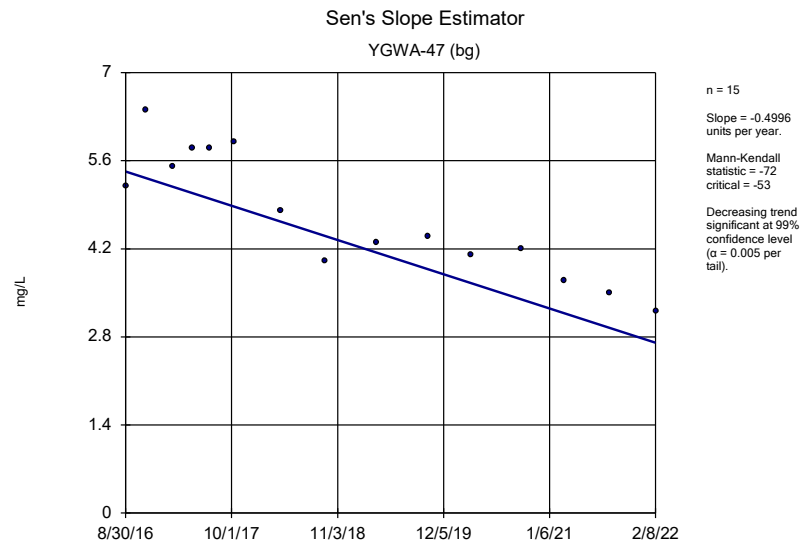
Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



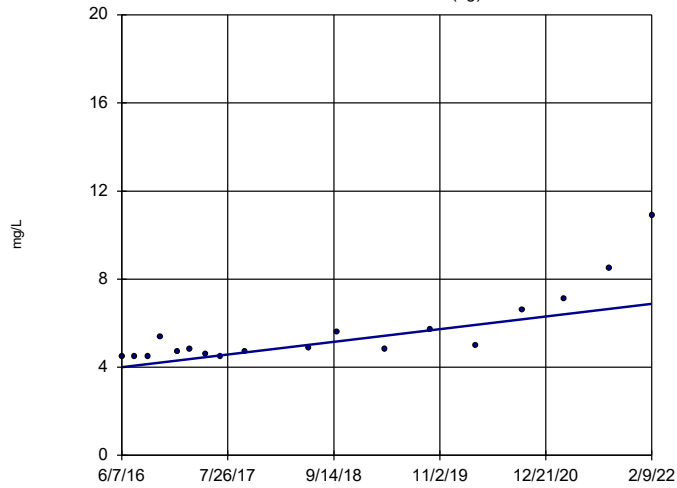
Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

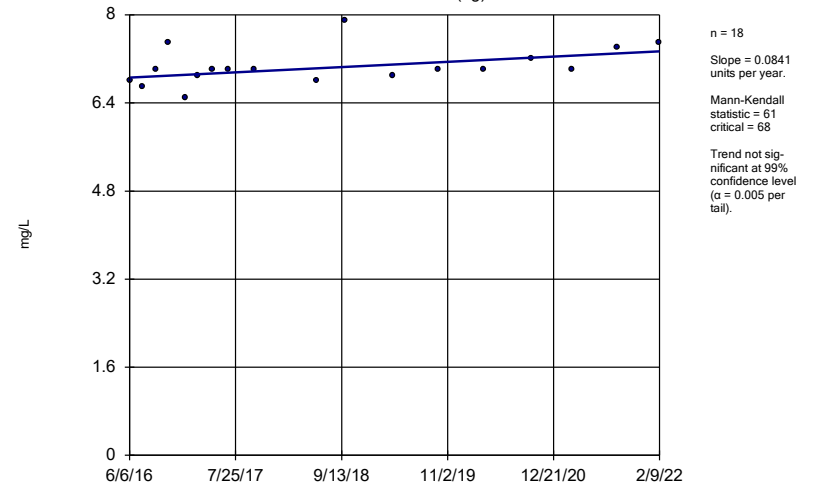
YGWA-17S (bg)



Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

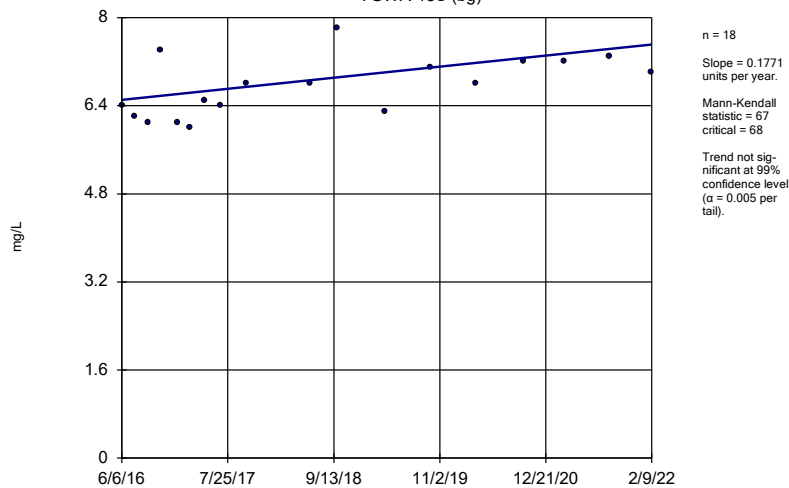
YGWA-18I (bg)



Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

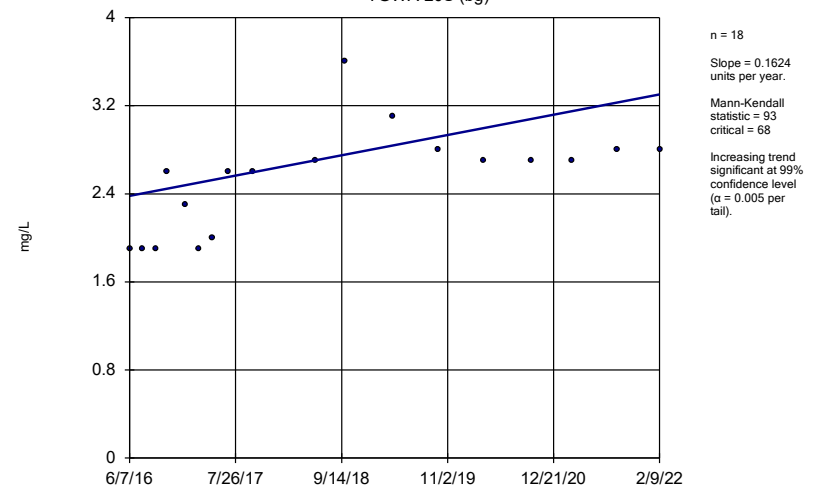
YGWA-18S (bg)



Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

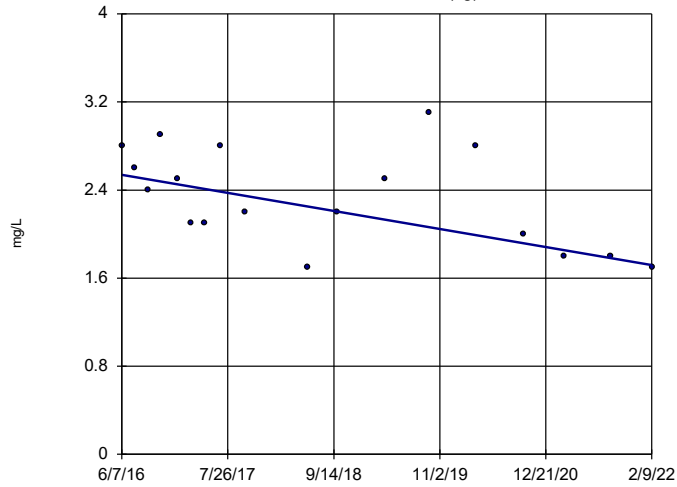
YGWA-20S (bg)



Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

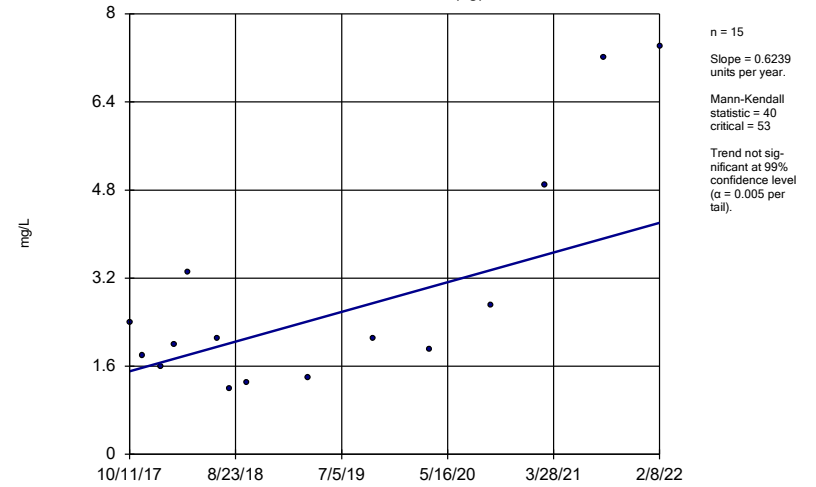
YGWA-21I (bg)



Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

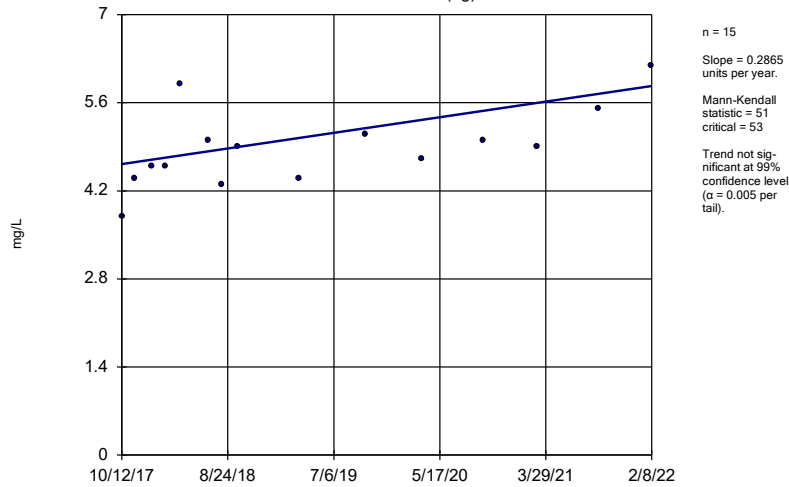
YGWA-39 (bg)



Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

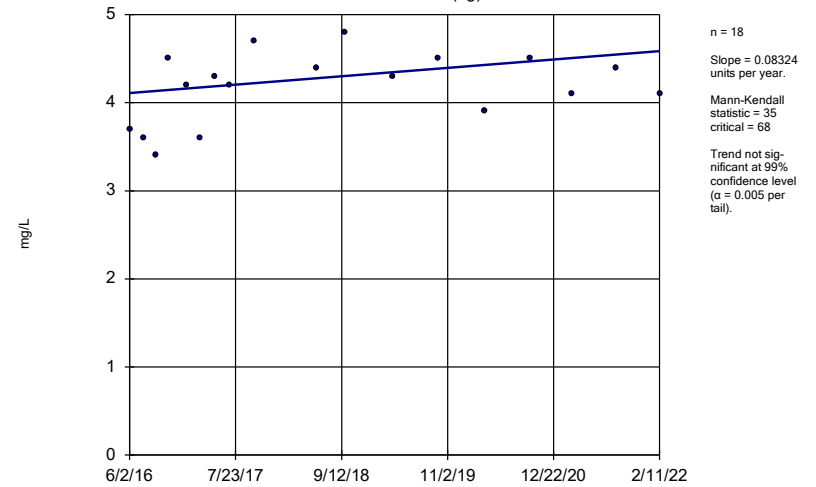
YGWA-40 (bg)



Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

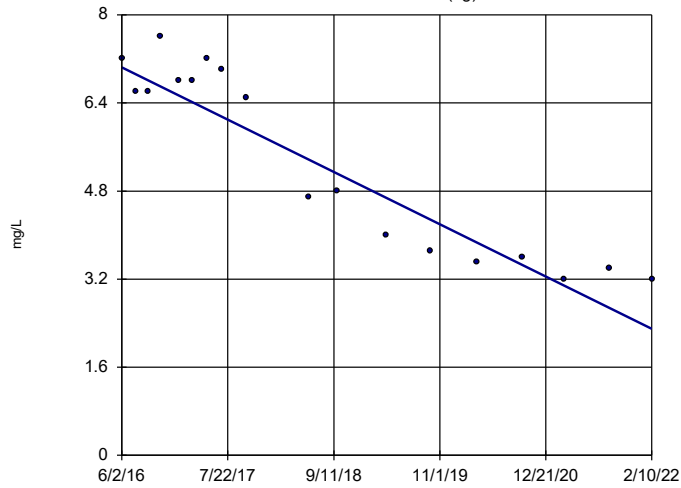
YGWA-4I (bg)



Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5D (bg)

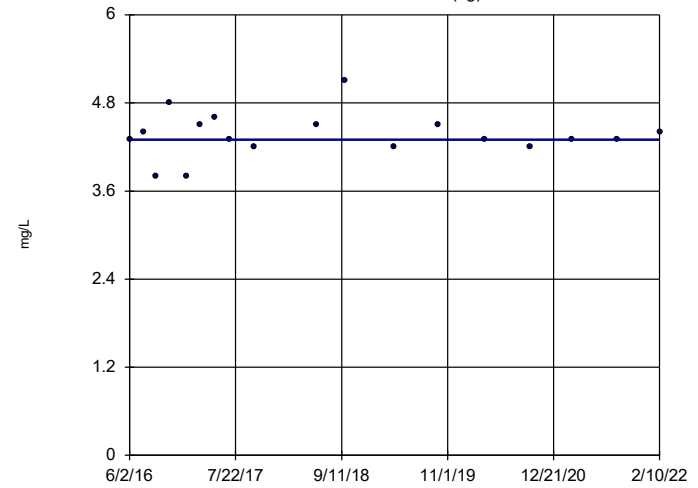


n = 18
 Slope = -0.8339
 units per year.
 Mann-Kendall
 statistic = -113
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5I (bg)

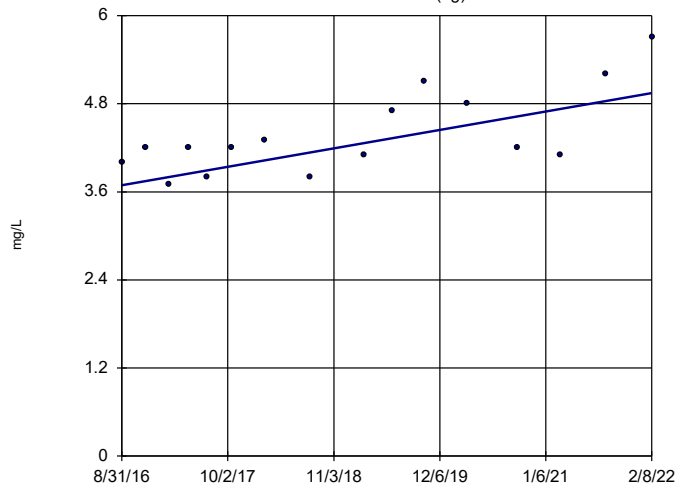


n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 1
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

GWA-2 (bg)



n = 16
 Slope = 0.2307
 units per year.
 Mann-Kendall
 statistic = 58
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 3/21/2022 12:53 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:31 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a	353	n/a	n/a	87.25	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	401	n/a	n/a	75.06	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a	401	n/a	n/a	2.743	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	385	n/a	n/a	80.26	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a	385	n/a	n/a	95.58	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a	353	n/a	n/a	79.6	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a	396	n/a	n/a	69.19	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a	380	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a	400	n/a	n/a	67.5	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a	355	n/a	n/a	84.51	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	380	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	309	n/a	n/a	93.2	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a	344	n/a	n/a	60.17	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	383	n/a	n/a	91.91	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	319	n/a	n/a	96.87	n/a	n/a	NaN	NP Inter(NDs)

FIGURE G.

YATES ASH POND 2 GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
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		0.071	2
Beryllium, Total (mg/L)	0.004		0.0005	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		0.0002	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 H.

Confidence Intervals - All Results (No Significant)

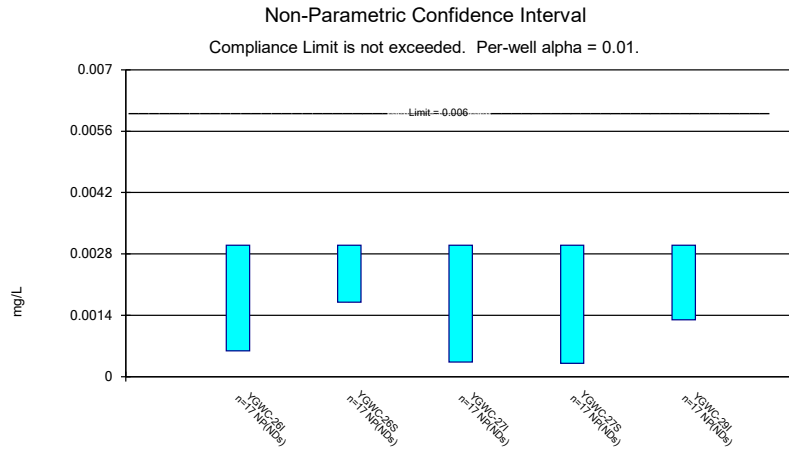
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.00059	0.006	No	17	0.002712	0.0008121	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	17	0.002841	0.0004487	88.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	17	0.002843	0.0006476	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	17	0.002841	0.0006548	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	17	0.0029	0.0004123	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	No	21	0.004895	0.0004801	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	No	21	0.004914	0.0003928	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	21	0.003307	0.002126	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	No	21	0.004852	0.0006765	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	No	21	0.004862	0.0006328	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.0007	0.01	No	21	0.00332	0.002123	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29I	0.005	0.0033	0.01	No	21	0.004919	0.000371	95.24	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06607	0.0627	2	No	21	0.06439	0.003054	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02872	0.02632	2	No	21	0.02752	0.002175	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.08	0.063	2	No	21	0.07016	0.007752	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1033	0.09001	2	No	21	0.09663	0.01201	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08942	0.08354	2	No	21	0.08648	0.005329	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2217	0.1958	2	No	21	0.2043	0.03757	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0741	0.057	2	No	21	0.07251	0.03261	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.0001	0.004	No	19	0.0001821	0.0001199	10.53	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00013	0.004	No	19	0.0002235	0.0001312	15.79	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	19	0.0004566	0.0001301	89.47	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.00043	0.0001	0.005	No	19	0.0002479	0.0001701	10.53	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	19	0.0004989	0.00004588	94.74	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002257	0.0001389	0.005	No	19	0.0002526	0.0001256	15.79	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	19	0.003392	0.002155	57.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002127	0.001045	0.1	No	19	0.002578	0.001725	21.05	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	19	0.005368	0.001606	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	19	0.004655	0.003012	68.42	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	19	0.004285	0.001697	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	19	0.004294	0.001675	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	19	0.004763	0.001032	94.74	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002719	0.001886	0.035	No	21	0.002343	0.0008244	4.762	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.0147	0.003357	0.035	No	21	0.01725	0.02581	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	21	0.002448	0.0006416	4.762	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	21	0.004782	0.0009994	95.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00091	0.035	No	21	0.001378	0.001211	9.524	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.00094	0.035	No	21	0.003955	0.001918	76.19	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.066	0.4848	6.92	No	20	0.7754	0.5117	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8492	0.5341	6.92	No	21	0.6917	0.2857	4.762	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.883	2.537	6.92	No	21	3.21	1.221	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.041	0.6603	6.92	No	21	0.8504	0.3446	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.261	6.92	No	21	0.6556	0.3485	4.762	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9441	0.5386	6.92	No	21	0.7413	0.3675	4.762	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.094	0.6509	6.92	No	21	0.8723	0.4013	4.762	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	No	22	0.08409	0.02065	45.45	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	22	0.1302	0.09494	72.73	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.1	0.07	4	No	22	0.09055	0.02574	54.55	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.1919	0.09792	4	No	22	0.1575	0.1014	18.18	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.12	0.078	4	No	22	0.1232	0.07937	22.73	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2565	0.1516	4	No	22	0.204	0.09764	9.091	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.08932	0.05868	4	No	22	0.08573	0.03079	31.82	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	17	0.0008888	0.0003138	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.00008	0.015	No	17	0.0007265	0.0004369	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.00037	0.015	No	17	0.0007881	0.0003597	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.00007	0.015	No	17	0.0007244	0.0004402	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.015	No	17	0.0008424	0.0003513	82.35	None	No	0.01	NP (NDs)

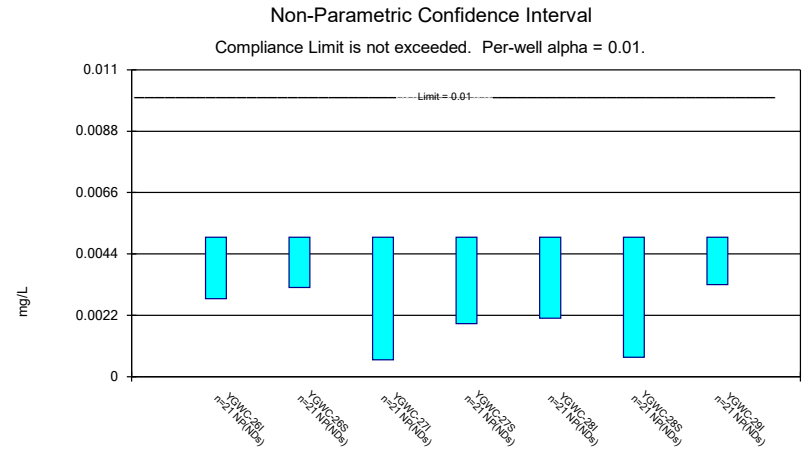
Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2022, 1:39 PM

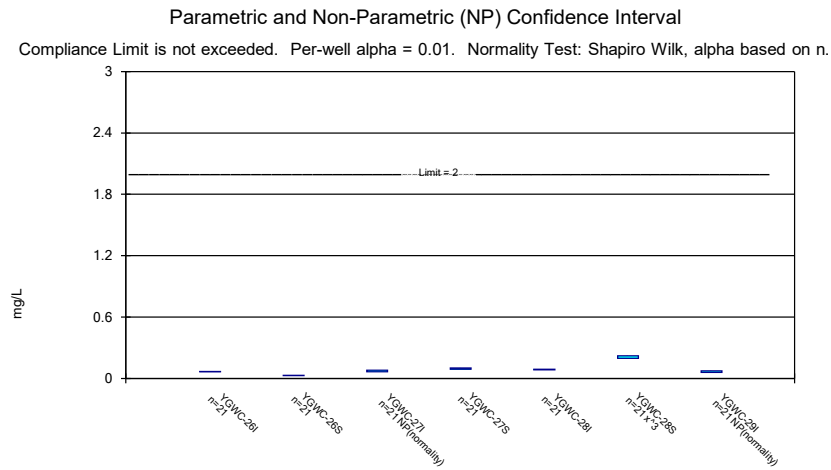
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	YGWC-26I	0.007307	0.006607	0.04	No	21	0.006957	0.0006345	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.0101	0.007874	0.04	No	21	0.008986	0.002015	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	21	0.02724	0.008707	90.48	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.0071	0.00668	0.04	No	21	0.00689	0.0003807	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	21	0.02882	0.00539	95.24	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0066	0.0053	0.04	No	21	0.00711	0.005308	4.762	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	No	15	0.0001801	0.00005243	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	No	15	0.000181	0.00005024	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	No	15	0.0001799	0.00005298	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.000049	0.002	No	15	0.0001793	0.00005456	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	No	15	0.0001899	0.00003925	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	No	15	0.0001901	0.00003821	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29I	0.0002	0.000047	0.002	No	15	0.0001791	0.00005526	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.1	No	21	0.005662	0.004282	47.62	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	21	0.004995	0.004443	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	No	21	0.007795	0.004042	76.19	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	No	21	0.009563	0.002001	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0034	0.0018	0.05	No	19	0.002574	0.001081	10.53	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	19	0.004174	0.001658	78.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	19	0.0048	0.0008718	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	19	0.004789	0.0009177	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	15	0.0008741	0.0003322	86.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No	15	0.000642	0.0004539	60	None	No	0.01	NP (NDs)



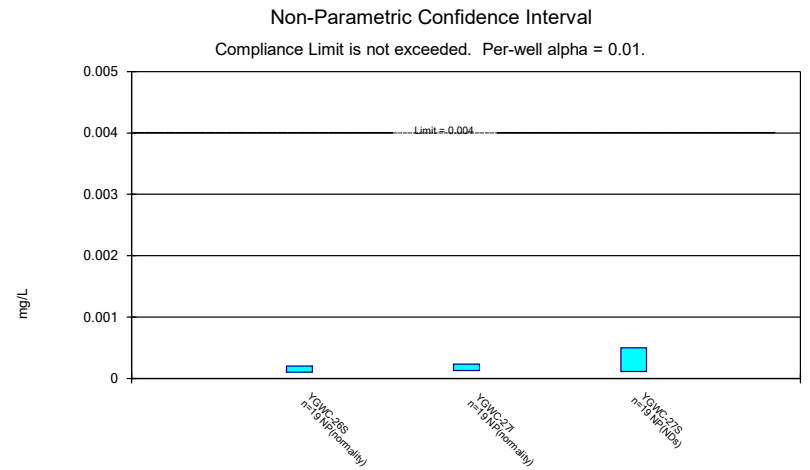
Constituent: Antimony Analysis Run 4/27/2022 1:38 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Arsenic Analysis Run 4/27/2022 1:38 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



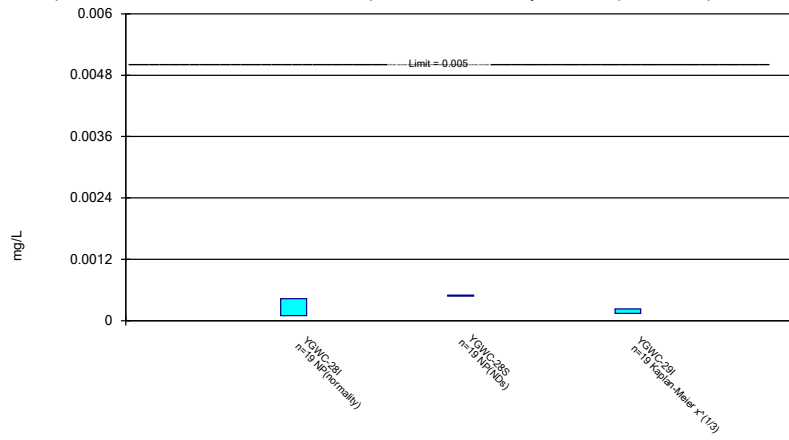
Constituent: Barium Analysis Run 4/27/2022 1:38 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Beryllium Analysis Run 4/27/2022 1:38 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

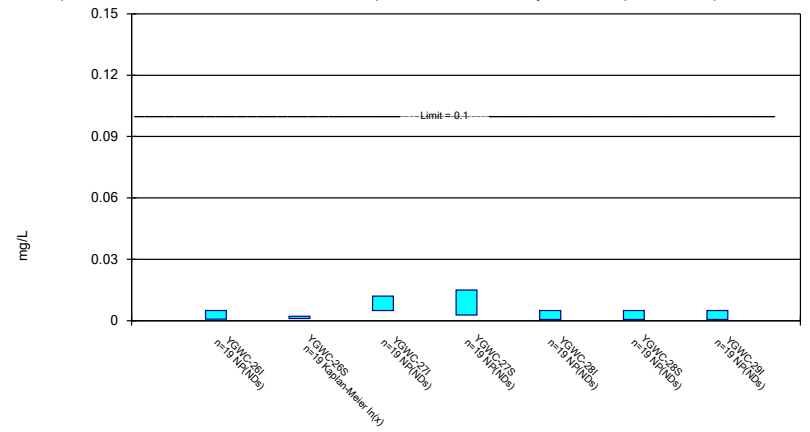
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/27/2022 1:38 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

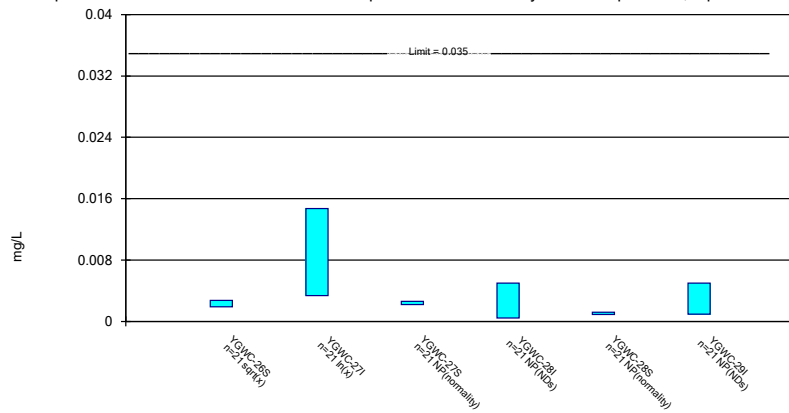
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 4/27/2022 1:38 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

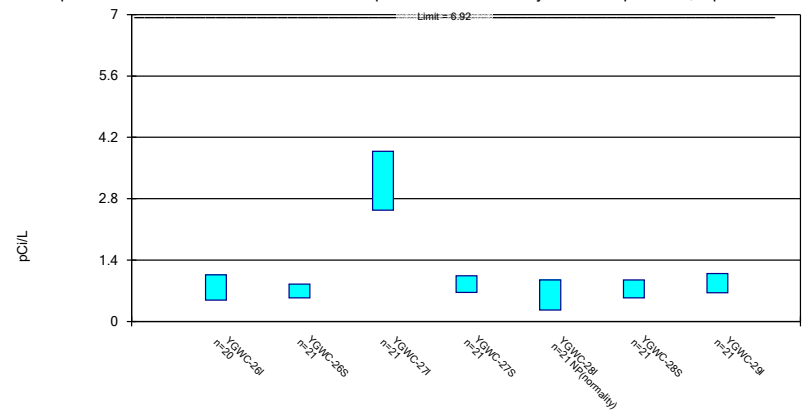
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/27/2022 1:38 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

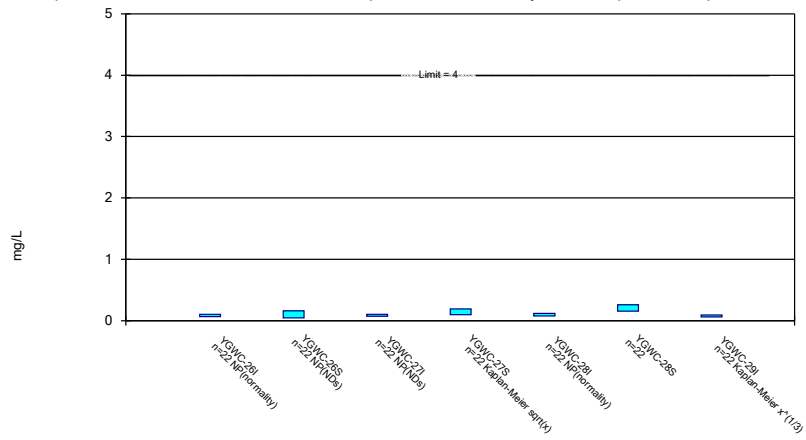
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2022 1:38 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

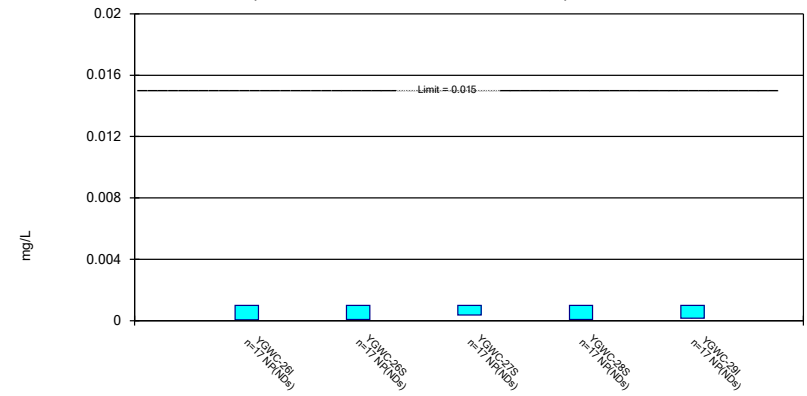
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

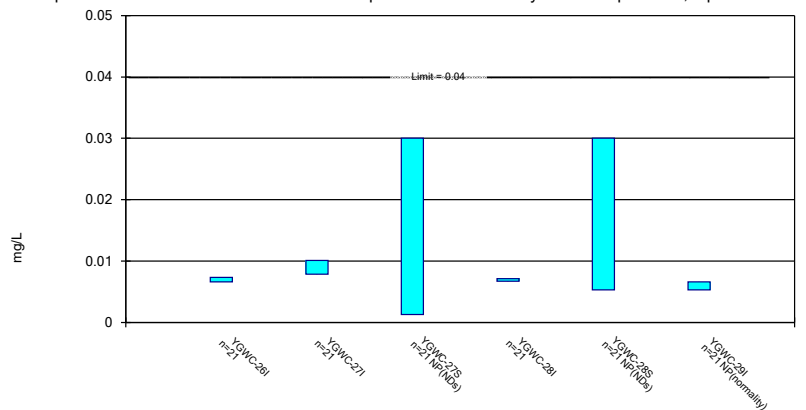
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

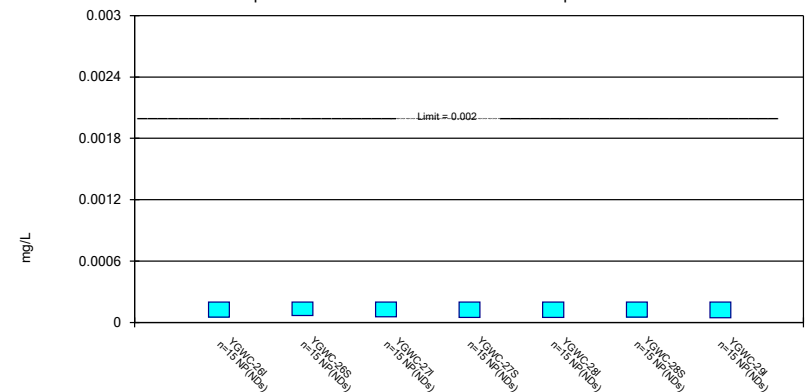
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

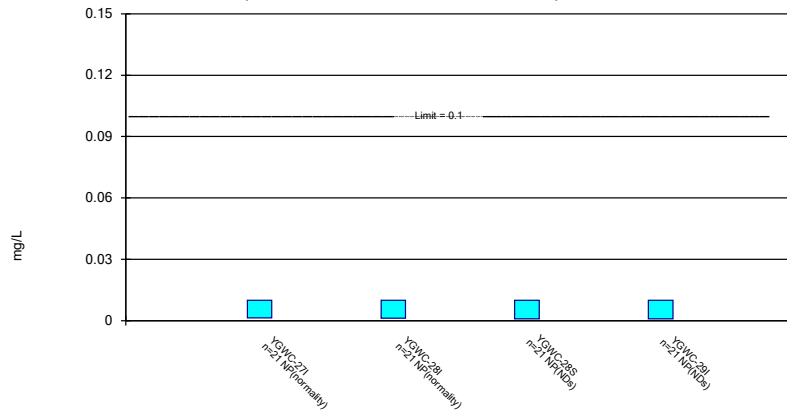
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

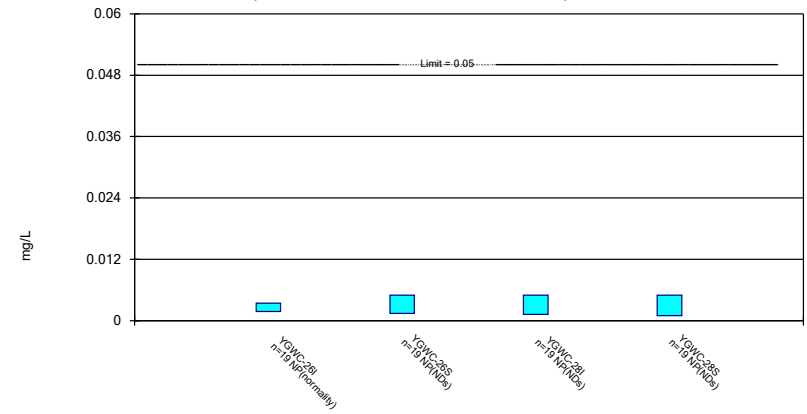
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

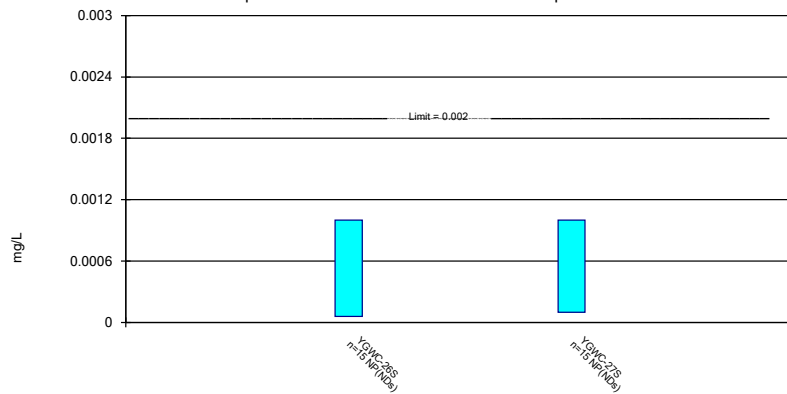
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

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



Constituent: Thallium Analysis Run 4/27/2022 1:38 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-29I
6/8/2016	<0.003	<0.003	<0.003	<0.003	
6/9/2016					<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003	
8/2/2016					<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003	
9/21/2016					<0.003
11/7/2016	<0.003	<0.003	<0.003	<0.003	<0.003
1/18/2017	<0.003	<0.003	<0.003		
1/19/2017				<0.003	<0.003
2/21/2017	<0.003	<0.003			
2/22/2017				<0.003	<0.003
2/23/2017			<0.003		
5/3/2017		<0.003			
5/8/2017	<0.003		<0.003	<0.003	<0.003
6/30/2017			<0.003	<0.003	
7/5/2017					<0.003
7/10/2017	<0.003	<0.003			
3/29/2018			<0.003	<0.003	<0.003
3/30/2018	<0.003	<0.003			
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003
3/19/2020		0.0017 (J)			
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)	<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003	<0.003	<0.003	
2/12/2021					<0.003
3/2/2021		<0.003			
3/3/2021	<0.003		<0.003	<0.003	<0.003
8/19/2021		<0.003			
8/20/2021	<0.003		<0.003	<0.003	<0.003
2/8/2022				<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003		
Mean	0.002712	0.002841	0.002843	0.002841	0.0029
Std. Dev.	0.0008121	0.0004487	0.0006476	0.0006548	0.0004123
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00059	0.0017	0.00033	0.0003	0.0013

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	<0.005
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		<0.005
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
3/29/2018			0.0006 (J)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
6/11/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
10/2/2018	<0.005	<0.005	<0.005	<0.005			<0.005
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	<0.005				<0.005	
9/25/2019	<0.005	<0.005					<0.005
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				
Mean	0.004895	0.004914	0.003307	0.004852	0.004862	0.00332	0.004919
Std. Dev.	0.0004801	0.0003928	0.002126	0.0006765	0.0006328	0.002123	0.000371
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0028	0.0032	0.0006	0.0019	0.0021	0.0007	0.0033

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	0.082
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	0.0781
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	0.0782
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	0.0712
11/8/2016					0.0886		
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			0.0689
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		0.0741
2/23/2017			0.0728				
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0725
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		0.0677
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
3/29/2018			0.062	0.097			0.055
3/30/2018	0.063	0.026			0.087	0.2	
6/11/2018							0.068
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
10/2/2018	0.066	0.026	0.062	0.1			0.067
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	0.067
4/1/2019			0.066	0.099	0.088		0.063
4/2/2019	0.065	0.027				0.2	
9/25/2019	0.063	0.026					0.061
9/26/2019			0.065	0.099	0.087	0.18	
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	0.053
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			0.057
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	0.21
3/2/2021		0.031					
3/3/2021	0.064		0.08	0.075	0.077	0.25	0.059
8/19/2021		0.023					
8/20/2021	0.063		0.083	0.082	0.079	0.24	0.057
2/8/2022				0.068	0.083	0.2	0.057
2/10/2022	0.063	0.027	0.079				
Mean	0.06439	0.02752	0.07016	0.09663	0.08648	0.2043	0.07251
Std. Dev.	0.003054	0.002175	0.007752	0.01201	0.005329	0.03757	0.03261
Upper Lim.	0.06607	0.02872	0.08	0.1033	0.08942	0.2217	0.0741
Lower Lim.	0.0627	0.02632	0.063	0.09001	0.08354	0.1958	0.057

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S
6/8/2016	<0.0005	<0.0005	<0.0005
8/1/2016	0.0002 (J)	<0.0005	<0.0005
9/20/2016	0.0001 (J)	9E-05 (J)	<0.0005
11/7/2016	0.0001 (J)	0.0001 (J)	<0.0005
1/18/2017	0.0002 (J)	0.0002 (J)	
1/19/2017			<0.0005
2/21/2017	0.0002 (J)		
2/22/2017			<0.0005
2/23/2017		0.0002 (J)	
5/3/2017	0.0002 (J)		
5/8/2017		0.0002 (J)	<0.0005
6/30/2017		0.0002 (J)	<0.0005
7/10/2017	0.0002 (J)		
3/29/2018		<0.0005	<0.0005
3/30/2018	<0.0005		
2/27/2019	0.00018 (J)	0.00022 (J)	<0.0005
4/1/2019		0.00022 (J)	<0.0005
4/2/2019	0.00015 (J)		
9/25/2019	0.00011 (J)		
9/26/2019		0.0002 (J)	<0.0005
2/13/2020	0.00015 (J)	0.00021 (J)	<0.0005
3/19/2020	0.00012 (J)		
3/20/2020		0.00023 (J)	<0.0005
9/24/2020	8.5E-05 (J)	0.00019 (J)	<0.0005
2/10/2021	0.00013 (J)	0.00014 (J)	6.6E-05 (J)
3/2/2021	0.00016 (J)		
3/3/2021		0.00013 (J)	<0.0005
8/19/2021	8.2E-05 (J)		
8/20/2021		8.6E-05 (J)	0.00011 (J)
2/8/2022			<0.0005
2/10/2022	9.3E-05 (J)	0.00013 (J)	
Mean	0.0001821	0.0002235	0.0004566
Std. Dev.	0.0001199	0.0001312	0.0001301
Upper Lim.	0.0002	0.00023	0.0005
Lower Lim.	0.0001	0.00013	0.00011

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29I
6/9/2016	0.00055 (J)	<0.0005	<0.0005
8/2/2016	0.0001 (J)	<0.0005	0.0001 (J)
9/21/2016	0.0001 (J)	<0.0005	0.0002 (J)
11/7/2016		<0.0005	0.0002 (J)
11/8/2016	9E-05 (J)		
1/18/2017	9E-05 (J)	<0.0005	
1/19/2017			0.0001 (J)
2/21/2017		<0.0005	
2/22/2017	0.0001 (J)		0.0001 (J)
5/5/2017	9E-05 (J)	<0.0005	
5/8/2017			0.0002 (J)
7/5/2017	0.0002 (J)		0.0002 (J)
7/7/2017		<0.0005	
3/29/2018			<0.0005
3/30/2018	<0.0005	<0.0005	
2/27/2019	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019	0.00043 (J)		0.00022 (J)
4/2/2019		<0.0005	
9/25/2019			0.00024 (J)
9/26/2019	<0.0005	<0.0005	
2/13/2020	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020	0.00016 (J)	<0.0005	
3/20/2020			0.00022 (J)
9/24/2020	0.00027 (J)	<0.0005	0.00033 (J)
2/11/2021	0.00052 (J)		
2/12/2021		0.00048 (J)	<0.0005
3/3/2021	0.00014 (J)	<0.0005	0.00029 (J)
8/20/2021	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022	0.00033 (J)	<0.0005	0.00019 (J)
Mean	0.0002479	0.0004989	0.0002526
Std. Dev.	0.0001701	4.588E-06	0.0001256
Upper Lim.	0.00043	0.0005	0.0002257
Lower Lim.	0.0001	0.00048	0.0001389

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	0.003 (J)				<0.005	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.005
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/19/2021		0.0012 (J)					
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
Mean	0.003392	0.002578	0.005368	0.004655	0.004285	0.004294	0.004763
Std. Dev.	0.002155	0.001725	0.001606	0.003012	0.001697	0.001675	0.001032
Upper Lim.	0.005	0.002127	0.012	0.015	0.005	0.005	0.005
Lower Lim.	0.00065	0.001045	0.005	0.0027	0.0005	0.0006	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016				0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016				<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016				<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016				<0.005		
1/18/2017	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017			0.0024 (J)			<0.005
2/21/2017	0.0022 (J)				0.0011 (J)	
2/22/2017			0.0023 (J)	<0.005		<0.005
2/23/2017		0.002 (J)				
5/3/2017	0.002 (J)					
5/5/2017				<0.005	0.0012 (J)	
5/8/2017		0.0029 (J)	0.0023 (J)			<0.005
6/30/2017		0.0044 (J)	0.0022 (J)			
7/5/2017				<0.005		0.0003 (J)
7/7/2017					0.0012 (J)	
7/10/2017	0.002 (J)					
3/29/2018		0.0495 (D)	<0.005			<0.005
3/30/2018	<0.005			<0.005	<0.005	
6/11/2018						<0.005
6/12/2018			0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	0.0017 (J)	0.092				
10/2/2018	0.002 (J)	0.078	0.0023 (J)			<0.005
10/3/2018				<0.005	0.0013 (J)	
2/27/2019	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005
4/1/2019		0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	0.0022 (J)				0.0011 (J)	
9/25/2019	0.0033 (J)					<0.005
9/26/2019		0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005
3/19/2020	0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020		0.014	0.0022 (J)			<0.005
9/24/2020	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005
2/10/2021	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021				<0.005		
2/12/2021					<0.005	0.00094 (J)
3/2/2021	0.0021 (J)					
3/3/2021		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005
8/19/2021	0.0017 (J)					
8/20/2021		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005
2/8/2022			0.0017 (J)	<0.005	0.00091 (J)	<0.005
2/10/2022	0.0026 (J)	0.0051				
Mean	0.002343	0.01725	0.002448	0.004782	0.001378	0.003955
Std. Dev.	0.0008244	0.02581	0.0006416	0.0009994	0.001211	0.001918
Upper Lim.	0.002719	0.0147	0.0026	0.005	0.0012	0.005
Lower Lim.	0.001886	0.003357	0.0022	0.00042	0.00091	0.00094

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	0.523
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016					0.331 (U)	0.526 (U)	1.25
9/20/2016	0.565 (U)	0.555 (U)	3.12	1.27			
9/21/2016					0.335 (U)	0.176 (U)	1.21 (U)
11/7/2016	0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	1.16
11/8/2016					0.245 (U)		
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			0.933 (U)
2/21/2017	1.06 (U)	1.11 (U)				0.404 (U)	
2/22/2017				1.26 (U)	0.516 (U)		1.45 (U)
2/23/2017			4.73				
5/3/2017		0.654 (U)					
5/5/2017					0.713 (U)	0.868 (U)	
5/8/2017	0.291 (U)		3.87	0.789 (U)			0.21 (U)
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		0.62 (U)
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
3/29/2018			1.41	0.916 (U)			1.37
3/30/2018	0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
6/11/2018							1.27 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			0.442 (U)
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	0.902 (U)
4/1/2019			5	0.777 (U)	0.162 (U)		0.584 (U)
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
9/25/2019	1.01 (U)	1.18 (U)					1.03 (U)
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	0.806 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			1.42
9/24/2020	<1.88	<1.88	3.42	1.49	<1.88	<1.88	<1.88
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	0.826
3/2/2021		0.394 (U)					
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	0.955
8/19/2021		0.531 (U)					
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	0.314 (U)
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.104 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				
Mean	0.7754	0.6917	3.21	0.8504	0.6556	0.7413	0.8723
Std. Dev.	0.5117	0.2857	1.221	0.3446	0.3485	0.3675	0.4013
Upper Lim.	1.066	0.8492	3.883	1.041	0.948	0.9441	1.094
Lower Lim.	0.4848	0.5341	2.537	0.6603	0.261	0.5386	0.6509

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	0.085 (J)
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.1	0.32			
9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	<0.1 (*)	0.44	<0.1 (*)	<0.1 (*)		0.27 (J)	<0.1 (*)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	<0.1 (*)	<0.1 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			<0.1 (*)
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.1 (*)		<0.1 (*)
2/23/2017			<0.1 (*)				
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.06 (J)
6/30/2017			<0.1 (*)	0.2 (J)			
7/5/2017					0.11 (J)		0.08 (J)
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
10/5/2017					<0.1 (*)		<0.1 (*)
10/6/2017				<0.1 (*)			
10/9/2017			<0.1 (*)			<0.1 (*)	
10/10/2017	<0.1	<0.1					
3/29/2018			<0.1	0.49			<0.1
3/30/2018	<0.1	0.35			<0.1	<0.1	
6/11/2018							<0.1
6/12/2018				0.037 (J)	<0.1	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.1				
10/2/2018	<0.1	<0.1	<0.1	<0.1			<0.1
10/3/2018					<0.1	0.31	
2/27/2019	<0.1	<0.1	<0.1	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		0.059 (J)
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
9/25/2019	0.064 (J)	<0.1					0.054 (J)
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.1	<0.1	<0.1	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.1	0.097 (J)			0.057 (J)
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	0.17
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
8/19/2021		<0.1					
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	0.069 (J)
2/8/2022				0.087 (J)	0.063 (J)	0.14	0.053 (J)
2/10/2022	<0.1	<0.1	0.059 (J)				
Mean	0.08409	0.1302	0.09055	0.1575	0.1232	0.204	0.08573
Std. Dev.	0.02065	0.09494	0.02574	0.1014	0.07937	0.09764	0.03079
Upper Lim.	0.1	0.16	0.1	0.1919	0.12	0.2565	0.08932

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
Lower Lim.	0.064	0.044	0.07	0.09792	0.078	0.1516	0.05868

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001 (*)		
6/9/2016				<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001		
8/2/2016				<0.001	<0.001
9/20/2016	<0.001	<0.001	0.0002 (J)		
9/21/2016				<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001	<0.001
1/18/2017	<0.001	<0.001		<0.001	
1/19/2017			<0.001		<0.001
2/21/2017	<0.001	<0.001		<0.001	
2/22/2017			<0.001		<0.001
5/3/2017		<0.001 (*)			
5/5/2017				<0.001 (*)	
5/8/2017	<0.001		<0.001		<0.001
6/30/2017			<0.001		
7/5/2017					<0.001
7/7/2017				7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)			
3/29/2018			<0.001		<0.001
3/30/2018	<0.001	<0.001		<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	<0.001	6.2E-05 (J)	5.4E-05 (J)	<0.001
3/19/2020		0.0001 (J)		7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		8.5E-05 (J)		<0.001
9/24/2020	<0.001	6.4E-05 (J)	0.00037 (J)	6.3E-05 (J)	9.5E-05 (J)
2/10/2021	5.1E-05 (J)	5E-05 (J)	0.00072 (J)		
2/12/2021				5.2E-05 (J)	6.6E-05 (J)
3/2/2021		5.6E-05 (J)			
3/3/2021	<0.001		<0.001	<0.001	0.00016 (J)
8/19/2021		<0.001			
8/20/2021	<0.001		0.00096 (J)	<0.001	<0.001
2/8/2022			<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001			
Mean	0.0008888	0.0007265	0.0007881	0.0007244	0.0008424
Std. Dev.	0.0003138	0.0004369	0.0003597	0.0004402	0.0003513
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.9E-05	8E-05	0.00037	7E-05	0.00016

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.007	0.0067	<0.03			
6/9/2016				0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	0.008 (J)	<0.03			
8/2/2016				0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	0.0111 (J)	<0.03			
9/21/2016				0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016				0.0072 (J)		
1/18/2017	0.0066 (J)	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017			<0.03			0.0055 (J)
2/21/2017	0.0067 (J)				<0.03	
2/22/2017			<0.03	0.0064 (J)		0.0063 (J)
2/23/2017		0.0099 (J)				
5/5/2017				0.007 (J)	<0.03	
5/8/2017	0.007 (J)	0.0086 (J)	<0.03			0.0066 (J)
6/30/2017		0.0108 (J)	<0.03			
7/5/2017				0.0072 (J)		0.0058 (J)
7/7/2017					<0.03	
7/10/2017	0.0064 (J)					
3/29/2018		0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)			0.007 (J)	<0.03	
6/11/2018						0.0064 (J)
6/12/2018			<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	0.014 (J)				
10/2/2018	0.0064 (J)	0.012 (J)	<0.03			0.006 (J)
10/3/2018				0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019		0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)				<0.03	
9/25/2019	0.0073 (J)					0.0057 (J)
9/26/2019		0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020				0.007 (J)	<0.03	
3/20/2020	0.0072 (J)	0.0091 (J)	<0.03			0.0051 (J)
9/24/2020	0.0074 (J)	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	0.0067 (J)	0.00081 (J)			
2/11/2021				0.007 (J)		
2/12/2021					0.0053 (J)	<0.03
3/3/2021	0.0077 (J)	0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/20/2021	0.0079 (J)	0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022			<0.03	0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0086 (J)	0.0072 (J)				
Mean	0.006957	0.008986	0.02724	0.00689	0.02882	0.00711
Std. Dev.	0.0006345	0.002015	0.008707	0.0003807	0.00539	0.005308
Upper Lim.	0.007307	0.0101	0.03	0.0071	0.03	0.0066
Lower Lim.	0.006607	0.007874	0.0013	0.00668	0.0053	0.0053

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	<0.0002 (*)
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016					<0.0002		
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			<0.0002
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		<0.0002
2/23/2017			<0.0002				
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		<0.0002
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
3/29/2018			<0.0002	<0.0002			<0.0002
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
9/25/2019	<0.0002	<0.0002					<0.0002
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
Mean	0.0001801	0.000181	0.0001799	0.0001793	0.0001899	0.0001901	0.0001791
Std. Dev.	5.243E-05	5.024E-05	5.298E-05	5.456E-05	3.925E-05	3.821E-05	5.526E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5.1E-05	6.6E-05	5.4E-05	4.9E-05	4.8E-05	5.2E-05	4.7E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0011 (J)			
6/9/2016		0.0011 (J)	<0.01	<0.01
8/1/2016	0.0018 (J)			
8/2/2016		0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01			
9/21/2016		<0.01	<0.01	<0.01
11/7/2016	<0.01		<0.01	<0.01
11/8/2016		<0.01		
1/18/2017	<0.01	<0.01	<0.01	
1/19/2017				<0.01
2/21/2017			<0.01	
2/22/2017		<0.01		<0.01
2/23/2017	<0.01			
5/5/2017		0.0014 (J)	0.0007 (J)	
5/8/2017	0.0011 (J)			<0.01
6/30/2017	<0.01			
7/5/2017		0.0014 (J)		<0.01
7/7/2017			<0.01	
3/29/2018	<0.01			<0.01
3/30/2018		<0.01	<0.01	
6/11/2018				<0.01
6/12/2018		<0.01	<0.01	
6/13/2018	<0.01			
10/2/2018	<0.01			<0.01
10/3/2018		<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01
4/1/2019	<0.01	<0.01		<0.01
4/2/2019			<0.01	
9/25/2019				<0.01
9/26/2019	0.0013 (J)	0.0013 (J)	<0.01	
2/13/2020	0.0014 (J)	0.0013 (J)	<0.01	<0.01
3/19/2020		0.0014 (J)	<0.01	
3/20/2020	0.0014 (J)			<0.01
9/24/2020	0.0015 (J)	0.0012 (J)	0.00075 (J)	<0.01
2/10/2021	0.0016 (J)			
2/11/2021		0.0012 (J)		
2/12/2021			<0.01	0.00083 (J)
3/3/2021	0.0017 (J)	0.0011 (J)	0.00083 (J)	<0.01
8/20/2021	0.0042 (J)	0.001 (J)	<0.01	<0.01
2/8/2022		0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	0.0018 (J)			
Mean	0.005662	0.004995	0.007795	0.009563
Std. Dev.	0.004282	0.004443	0.004042	0.002001
Upper Lim.	0.01	0.01	0.01	0.01
Lower Lim.	0.0014	0.0012	0.00083	0.00083

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-28I	YGWC-28S
6/8/2016	0.0016	0.0003 (J)		
6/9/2016			<0.005	<0.005
8/1/2016	0.0023 (J)	0.0014 (J)		
8/2/2016			<0.005	<0.005
9/20/2016	0.0022 (J)	<0.005		
9/21/2016			<0.005	0.001 (J)
11/7/2016	0.0017 (J)	<0.005		<0.005
11/8/2016			<0.005	
1/18/2017	0.002 (J)	0.0012 (J)	<0.005	<0.005
2/21/2017	0.0018 (J)	0.0014 (J)		<0.005
2/22/2017			0.0012 (J)	
5/3/2017		<0.005		
5/5/2017			<0.005	<0.005
5/8/2017	<0.005			
7/5/2017			<0.005	
7/7/2017				<0.005
7/10/2017	0.002 (J)	<0.005		
3/30/2018	<0.005	<0.005	<0.005	<0.005
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005
4/1/2019			<0.005	
4/2/2019	0.0017 (J)	<0.005		<0.005
9/25/2019	0.0019 (J)	<0.005		
9/26/2019			<0.005	<0.005
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005
3/19/2020		<0.005	<0.005	<0.005
3/20/2020	0.0019 (J)			
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005
2/10/2021	0.0026 (J)	<0.005		
2/11/2021			<0.005	
2/12/2021				<0.005
3/2/2021		<0.005		
3/3/2021	0.0034 (J)		<0.005	<0.005
8/19/2021		<0.005		
8/20/2021	0.0026 (J)		<0.005	<0.005
2/8/2022			<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005		
Mean	0.002574	0.004174	0.0048	0.004789
Std. Dev.	0.001081	0.001658	0.0008718	0.0009177
Upper Lim.	0.0034	0.005	0.005	0.005
Lower Lim.	0.0018	0.0014	0.0012	0.001

Confidence Interval

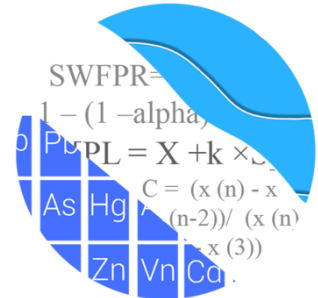
Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:39 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27S
6/8/2016	<0.001	0.00012 (J)
8/1/2016	<0.001	0.0001 (J)
9/20/2016	<0.001	<0.001
11/7/2016	<0.001	<0.001
1/18/2017	<0.001	
1/19/2017		<0.001
2/21/2017	<0.001	
2/22/2017		<0.001
5/3/2017	<0.001	
5/8/2017		0.0001 (J)
6/30/2017		0.0001 (J)
7/10/2017	<0.001	
3/29/2018		<0.001
3/30/2018	<0.001	
2/27/2019	<0.001	<0.001
2/13/2020	5.7E-05 (J)	0.0001 (J)
3/19/2020	5.5E-05 (J)	
3/20/2020		0.00011 (J)
9/24/2020	<0.001	<0.001
2/10/2021	<0.001	<0.001
2/8/2022		<0.001
2/10/2022	<0.001	
Mean	0.0008741	0.000642
Std. Dev.	0.0003322	0.0004539
Upper Lim.	0.001	0.001
Lower Lim.	5.7E-05	0.0001

August/September 2022

GROUNDWATER STATS CONSULTING



January 31, 2023

Southern Company Services
Attn: Ms. Lauren Hartley
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Yates Ash Pond 2 (AP-2)
August/September 2022 Statistical Analysis

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August/September 2022 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates AP-2. 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-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29I

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Dr. Jim Loftis, Civil & Environmental Engineering professor emeritus at Colorado State University and Senior Advisor to 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 containing 100% non-detects follows this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters.

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. On time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group. 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.

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 background screening performed in 2017 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 in background, 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. 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 careful 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 Update – Appendix III and IV Constituents - Conducted in March 2020

Outlier Analysis

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Interwell prediction limits, combined with a 1-of-2 resample plan, were recommended. During the March 2020 1st semi-annual analysis, data were screened for the purpose of updating the statistical limits as described below.

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. Suspected outliers at upgradient wells for Appendix III and all wells for Appendix IV parameters are 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.

Using the Tukey box plot method, a couple outliers were identified. While this is not the case in the present data set, when the most recent value is identified as an outlier, values are not flagged in the database at this time as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. 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.

Only one of the outliers identified by Tukey's method (combined radium 226 + 228 in downgradient well YGWC-26I) was flagged in the database as all other values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. 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. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit. A summary of outlier results follows this letter (Figure C).

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 test was used to evaluate all data at upgradient wells for Appendix III parameters and all wells for Appendix IV parameters to identify statistically significant increasing or decreasing. 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. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses for the Appendix III and IV parameters showed statistically significant decreasing trends for a handful of constituents and statistically significant increasing trends for calcium, cobalt, combined radium 226 + 228, and sulfate.

Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period is short with only three years of record, making it difficult to separate trends from normal year-to-year variation; therefore, no adjustments were made to the data sets. If the observed decreasing or increasing trends persist over a longer time frame, some records may need to be truncated.

Statistical Analysis of Appendix III Parameters – August/September 2022

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. No new outliers were flagged for Appendix III parameters.

The reported measurement of 451 mg/L for sulfate in well YGWC-27S during the March 2021 sample event was considerably higher than remaining measurements at this well. This value was not flagged as outlier, but if further review demonstrates this value to be anomalous, it will be flagged as an outlier in the database. 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).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through September 2022 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August/September 2022 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 and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29I
- Chloride: YGWC-26I, YGWC-26S, YGWC-27I, and YGWC-28S
- TDS: YGWC-26I and YGWC-28S

Note that in order to maintain a statistical limit that is conservative from a regulatory perspective, an interwell parametric prediction limit was constructed for TDS.

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen’s Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses 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 natural variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following downgradient and associated upgradient well/constituent pairs:

Increasing:

- Chloride: GWA-2, YGWA-17S, YGWA-18I, YGWA-20S, and YGWA-40 (all upgradient)
- TDS: GWA-2 and YGWA-39 (both upgradient)

Decreasing:

- Boron: YGWA-40 (upgradient), YGWC-26I, and YGWC-29I
- Chloride: YGWA-3D (upgradient), YGWA-47 (upgradient), YGWA-5D (upgradient), YGWC-26I, and YGWC-26S
- TDS: YGWA-47 and YGWA-5D (both upgradient)

A complete list of trend test results and all statistically significant increasing and decreasing trends may be found following this letter in the Trend Test Summary Table.

Statistical Analysis of Appendix IV Parameters – August/September 2022

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. Well/constituent pairs that have 100% non-detects or trace values below the reporting limits do not require analysis.

Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

A high value of 0.075 mg/L for cobalt at upgradient well GWA-2 from the August 2022 sample event was flagged in order to maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective. The reported measurements since August 2020 were previously flagged as they were two orders of magnitude higher than remaining measurements at this well. If further studies indicate these measurements represent natural variation in groundwater quality, the values will be included in construction of interwell prediction limits. A summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through September 2022 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. 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 G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through September 2022 were constructed for each of the Appendix IV constituents in each downgradient well with 4 or more samples (Figure H).

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, as appropriate. Confidence intervals were compared to the GWPS prepared as described above. 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.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates AP-2. 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 10/12/2022 1:44 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Antimony (mg/L)
YGWC-28I, YGWC-28S

Beryllium (mg/L)
YGWC-26I, YGWC-28I, YGWC-28S, YGWC-29I

Cadmium (mg/L)
YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S

Cobalt (mg/L)
YGWC-26I

Lead (mg/L)
YGWC-27I, YGWC-28I

Lithium (mg/L)
YGWC-26S

Molybdenum (mg/L)
YGWC-26I, YGWC-26S, YGWC-27S

Selenium (mg/L)
YGWC-27I, YGWC-27S, YGWC-29I

Thallium (mg/L)
YGWC-26I, YGWC-27I, YGWC-28I, YGWC-28S, YGWC-29I

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/13/2022, 3:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	8/31/2022	0.64	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	8/31/2022	0.7	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	9/1/2022	2.3	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	9/1/2022	1	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	9/1/2022	1.8	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	9/1/2022	2.2	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	9/1/2022	0.71	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	12	n/a	8/31/2022	16.6	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	12	n/a	8/31/2022	15	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	12	n/a	9/1/2022	13.4	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	12	n/a	9/1/2022	16.5	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	209.3	n/a	8/31/2022	228	Yes	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	209.3	n/a	9/1/2022	225	Yes	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/13/2022, 3:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	8/31/2022	0.64	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	8/31/2022	0.7	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	9/1/2022	2.3	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	9/1/2022	1	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	9/1/2022	1.8	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	9/1/2022	2.2	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	9/1/2022	0.71	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26I	37	n/a	8/31/2022	16.4	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	8/31/2022	10.8	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	9/1/2022	28.2	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	9/1/2022	21.3	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	9/1/2022	26.3	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	9/1/2022	33.1	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	9/1/2022	11	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	12	n/a	8/31/2022	16.6	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	12	n/a	8/31/2022	15	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	12	n/a	9/1/2022	13.4	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	12	n/a	9/1/2022	10.4	No	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	12	n/a	9/1/2022	10.4	No	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	12	n/a	9/1/2022	16.5	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	12	n/a	9/1/2022	8.1	No	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	8/31/2022	0.082J	No	419	n/a	n/a	65.63	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	8/31/2022	0.076J	No	419	n/a	n/a	65.63	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	9/1/2022	0.1	No	419	n/a	n/a	65.63	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	9/1/2022	0.12	No	419	n/a	n/a	65.63	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	9/1/2022	0.11	No	419	n/a	n/a	65.63	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	9/1/2022	0.16	No	419	n/a	n/a	65.63	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	9/1/2022	0.091J	No	419	n/a	n/a	65.63	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	8/31/2022	5.77	No	429	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	8/31/2022	5.61	No	429	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	9/1/2022	6.13	No	429	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	9/1/2022	6.13	No	429	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	9/1/2022	6.41	No	429	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	9/1/2022	6.59	No	429	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	8.39	4.4	9/1/2022	6.05	No	429	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	8/31/2022	85.9	No	350	n/a	n/a	6	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	8/31/2022	90.2	No	350	n/a	n/a	6	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	9/1/2022	2.5	No	350	n/a	n/a	6	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	9/1/2022	13.5	No	350	n/a	n/a	6	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	9/1/2022	7.6	No	350	n/a	n/a	6	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	9/1/2022	13.4	No	350	n/a	n/a	6	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	9/1/2022	21.2	No	350	n/a	n/a	6	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	209.3	n/a	8/31/2022	228	Yes	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	209.3	n/a	8/31/2022	206	No	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	209.3	n/a	9/1/2022	193	No	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	209.3	n/a	9/1/2022	124	No	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	209.3	n/a	9/1/2022	186	No	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	209.3	n/a	9/1/2022	225	Yes	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	209.3	n/a	9/1/2022	128	No	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2

Appendix III Trend Tests - Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:28 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWC-26I	-0.04321	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.02727	-92	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01529	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0435	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.3776	-77	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.5557	-95	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4528	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5433	127	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.1027	78	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1337	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.326	66	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.7454	-124	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2567	74	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:28 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.000665	-40	-74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0008221	34	74	No	19	36.84	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-11 (bg)	0	-8	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-6	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-19	-74	No	19	84.21	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	0	74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-17	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26I	-0.04321	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26S	0.01343	55	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.06844	60	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	-0.04234	-52	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	-0.02927	-18	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	0	-5	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.02727	-92	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0008357	-55	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0001704	22	74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-22	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.000309	24	74	No	19	21.05	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-9	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.0004731	-56	-74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.01331	56	58	No	16	6.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01529	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	1	74	No	19	68.42	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	31	74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-25	-74	No	19	63.16	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	23	63	No	17	64.71	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1251	51	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-37	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-11 (bg)	-0.01802	-38	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.02221	-34	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-8	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0435	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.02929	-65	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.3776	-77	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.5557	-95	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27I	0	-21	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28S	-0.2465	-49	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4528	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5433	127	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.1027	78	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.1557	72	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1337	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21I (bg)	-0.1148	-56	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.768	51	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.326	66	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.08123	41	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.7454	-124	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5I (bg)	0	5	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2567	74	63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:28 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	0.3698	12	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	0.7444	13	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-11 (bg)	-2.443	-37	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-1.72	-28	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	2.114	27	74	No	19	10.53	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	0.7739	9	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	0.954	9	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-26I	-0.5252	-6	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-28S	-1.335	-9	-74	No	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	3.694	44	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-0.8196	-19	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	0.4345	10	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	2.688	34	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	10.54	68	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-11.03	-58	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	0	-1	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	0	3	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a	372	n/a	n/a	87.63	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	420	n/a	n/a	74.76	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a	420	n/a	n/a	2.619	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	404	n/a	n/a	80.2	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a	404	n/a	n/a	95.54	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a	372	n/a	n/a	80.11	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a	414	n/a	n/a	69.32	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a	399	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a	419	n/a	n/a	65.63	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a	374	n/a	n/a	85.29	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	399	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a	328	n/a	n/a	93.29	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a	363	n/a	n/a	60.33	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	402	n/a	n/a	92.29	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	338	n/a	n/a	97.04	n/a	n/a	NaN	NP Inter(NDs)

YATES ASH POND 2 GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
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		0.071	2
Beryllium, Total (mg/L)	0.004		0.0005	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*

Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Lower Compl.	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.001	0.006	n/a	No	18	0.002617	0.0008852	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	n/a	No	18	0.00285	0.0004369	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	n/a	No	18	0.002852	0.0006293	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	n/a	No	18	0.00285	0.0006364	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	n/a	No	18	0.002906	0.0004007	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	n/a	No	22	0.0049	0.000469	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	n/a	No	22	0.004918	0.0003838	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.00069	0.01	n/a	No	22	0.003384	0.002106	59.09	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	n/a	No	22	0.004859	0.0006609	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	n/a	No	22	0.004868	0.0006183	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.0007	0.01	n/a	No	22	0.003396	0.002103	59.09	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29I	0.005	0.0033	0.01	n/a	No	22	0.004923	0.0003624	95.45	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06586	0.06224	2	n/a	No	22	0.06405	0.003371	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02857	0.02615	2	n/a	No	22	0.02736	0.002251	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.07429	0.0662	2	n/a	No	22	0.07043	0.007667	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	YGWC-27S	0.1028	0.08614	2	n/a	No	22	0.09447	0.01551	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08914	0.08214	2	n/a	No	22	0.08564	0.006525	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2208	0.196	2	n/a	No	22	0.2041	0.03667	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0725	0.057	2	n/a	No	22	0.0718	0.03199	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002048	0.0001127	0.004	n/a	No	20	0.0001767	0.0001192	10	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-27I	0.0002555	0.0001418	0.004	n/a	No	20	0.0002183	0.0001298	15	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	n/a	No	20	0.0004588	0.000127	90	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0002875	0.0001345	0.005	n/a	No	20	0.000244	0.0001665	10	None	ln(x)	0.01	Param.
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	n/a	No	20	0.000499	0.00004472	95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0003061	0.0001768	0.005	n/a	No	20	0.00025	0.0001228	15	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00067	0.1	n/a	No	20	0.003472	0.002128	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002218	0.001077	0.1	n/a	No	20	0.002699	0.001764	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	n/a	No	20	0.00535	0.001565	95	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.005	0.0041	0.1	n/a	No	20	0.004672	0.002932	70	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	n/a	No	20	0.00432	0.00166	85	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	n/a	No	20	0.004329	0.001638	85	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	n/a	No	20	0.004775	0.001006	95	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002713	0.001916	0.035	n/a	No	22	0.002355	0.0008064	4.545	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01438	0.003531	0.035	n/a	No	22	0.0169	0.02524	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0025	0.0022	0.035	n/a	No	22	0.002405	0.0006579	4.545	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	n/a	No	22	0.004792	0.0009765	95.45	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00091	0.035	n/a	No	22	0.001348	0.001191	9.091	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.00094	0.035	n/a	No	22	0.004003	0.001885	77.27	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.031	0.4627	6.92	n/a	No	21	0.747	0.5154	4.762	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8376	0.5376	6.92	n/a	No	22	0.6876	0.2794	4.545	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.837	2.557	6.92	n/a	No	22	3.197	1.193	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.016	0.6208	6.92	n/a	No	22	0.8185	0.3682	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.8358	0.4705	6.92	n/a	No	22	0.6531	0.3403	4.545	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9184	0.5085	6.92	n/a	No	22	0.7134	0.3818	4.545	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.069	0.6371	6.92	n/a	No	22	0.8529	0.4021	4.545	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	n/a	No	23	0.084	0.02018	43.48	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.076	4	n/a	No	23	0.1278	0.09345	69.57	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.1	0.07	4	n/a	No	23	0.09096	0.02523	52.17	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.1863	0.09639	4	n/a	No	23	0.1559	0.09941	17.39	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.12	0.078	4	n/a	No	23	0.1226	0.0776	21.74	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2523	0.152	4	n/a	No	23	0.2021	0.09584	8.696	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.08971	0.06021	4	n/a	No	23	0.08596	0.0301	30.43	Kaplan-Meier	x^(1/3)	0.01	Param.

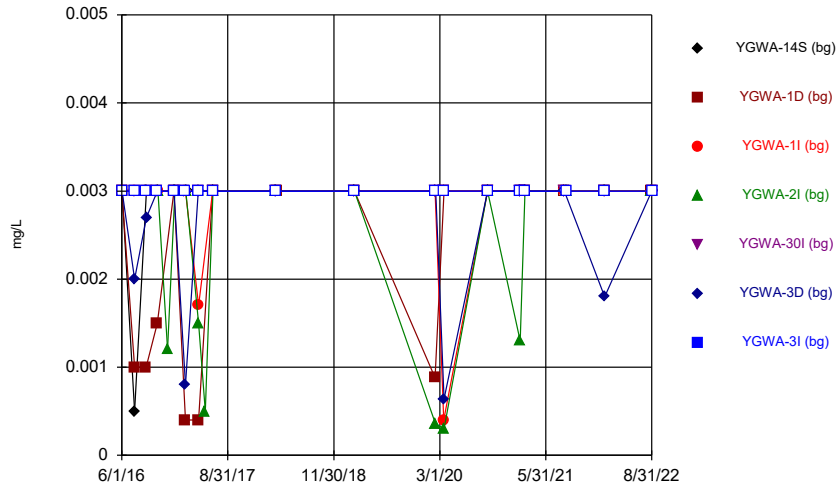
Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Lower Compl.	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	n/a	No	18	0.000895	0.0003056	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.00008	0.015	n/a	No	18	0.0007417	0.0004287	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.00037	0.015	n/a	No	18	0.0007998	0.0003525	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.00007	0.015	n/a	No	18	0.0007397	0.000432	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.015	n/a	No	18	0.0008512	0.0003428	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007313	0.006641	0.04	n/a	No	22	0.006977	0.0006264	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.009973	0.007809	0.04	n/a	No	22	0.008891	0.002016	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	n/a	No	22	0.02737	0.008517	90.91	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007079	0.006675	0.04	n/a	No	22	0.006877	0.0003766	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	n/a	No	22	0.02888	0.005266	95.45	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0066	0.0053	0.04	n/a	No	22	0.007018	0.005198	4.545	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	n/a	No	16	0.0001814	0.00005089	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	n/a	No	16	0.0001822	0.00004877	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	n/a	No	16	0.0001812	0.00005143	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.00019	0.002	n/a	No	16	0.00018	0.00005278	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	n/a	No	16	0.0001905	0.000038	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	n/a	No	16	0.0001907	0.000037	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29I	0.0002	0.000047	0.002	n/a	No	16	0.0001804	0.00005365	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0015	0.1	n/a	No	22	0.005477	0.004267	45.45	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	n/a	No	22	0.004814	0.004418	40.91	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	n/a	No	22	0.007895	0.003972	77.27	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	n/a	No	22	0.009583	0.001955	95.45	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.003014	0.001996	0.05	n/a	No	20	0.002625	0.001076	10	None	ln(x)	0.01	Param.
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	n/a	No	20	0.004215	0.001624	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	n/a	No	20	0.00481	0.0008497	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	n/a	No	20	0.0048	0.0008944	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	n/a	No	16	0.000882	0.0003224	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	n/a	No	16	0.0006644	0.0004475	62.5	None	No	0.01	NP (NDs)

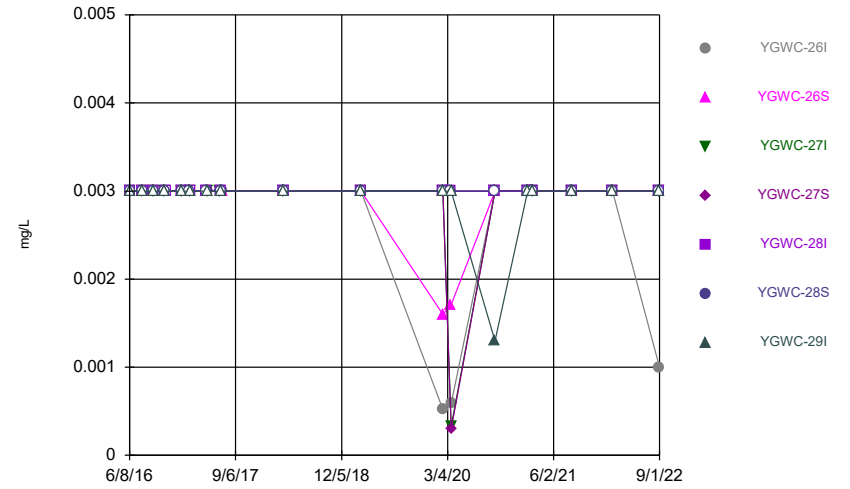
FIGURE A.

Time Series



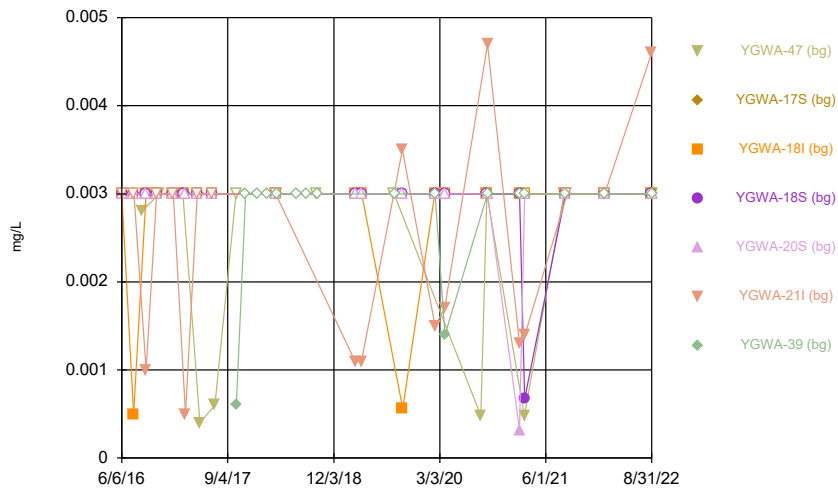
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



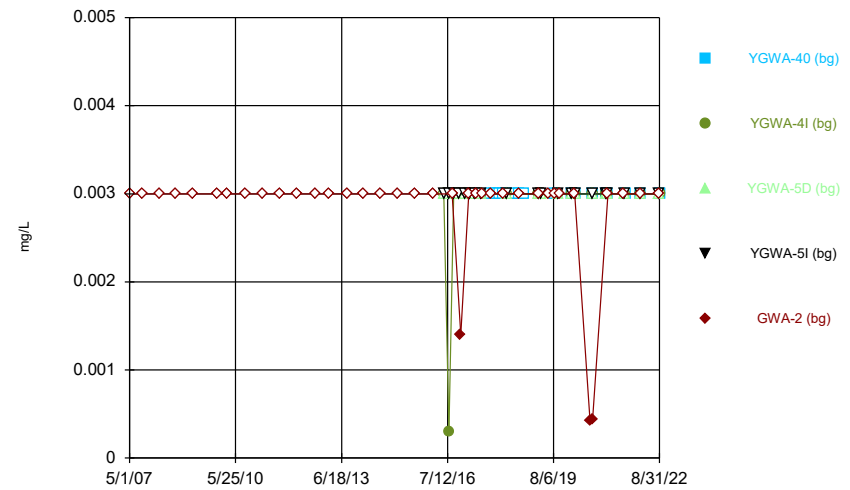
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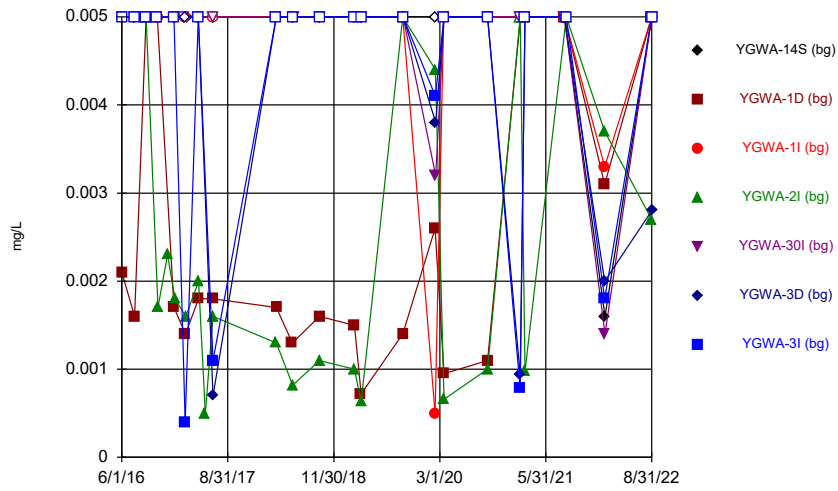
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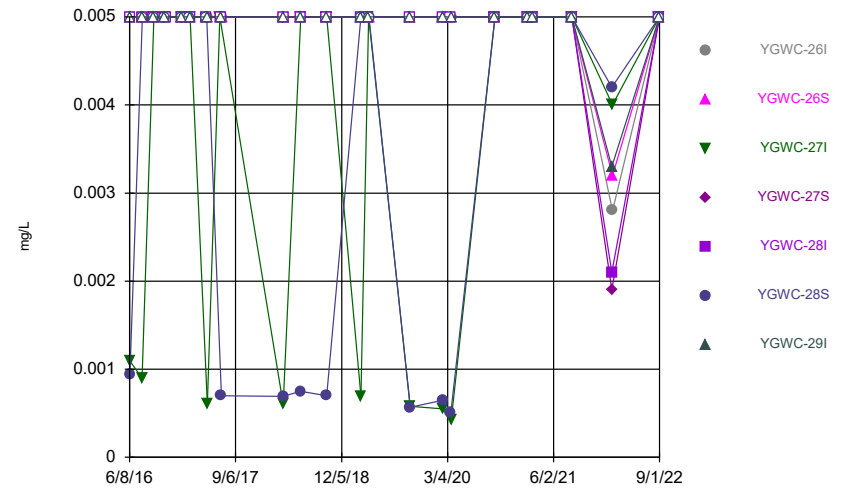
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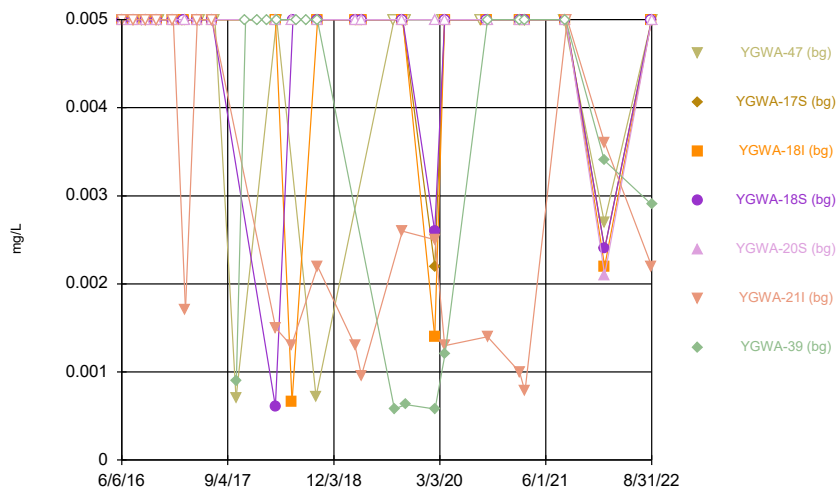
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Time Series



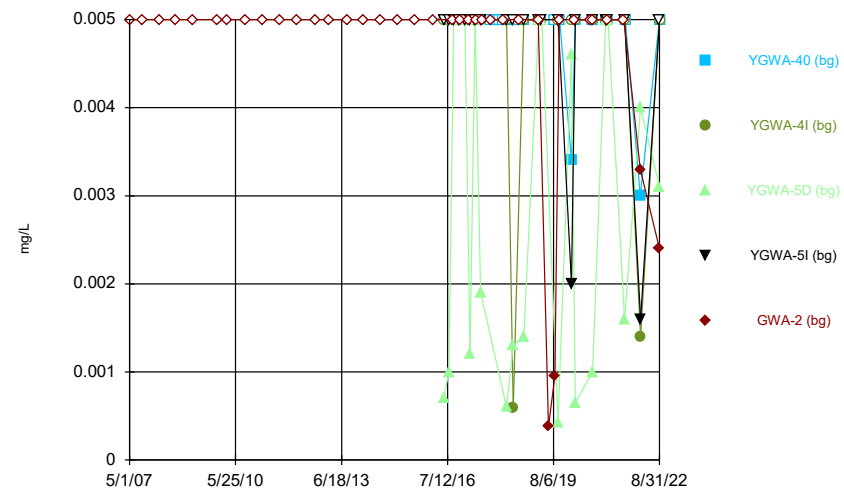
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Time Series



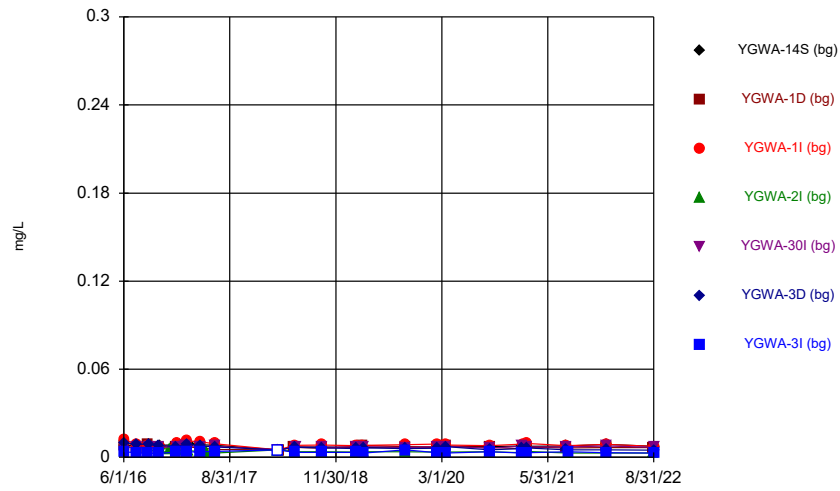
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Time Series



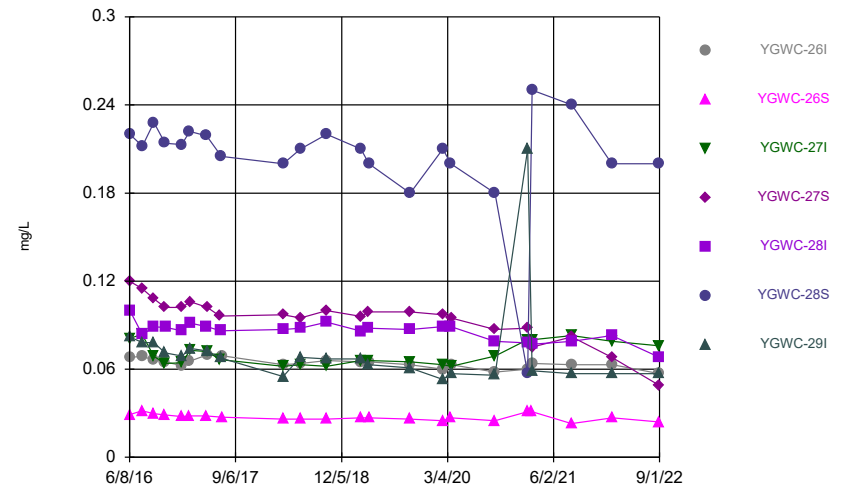
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Time Series



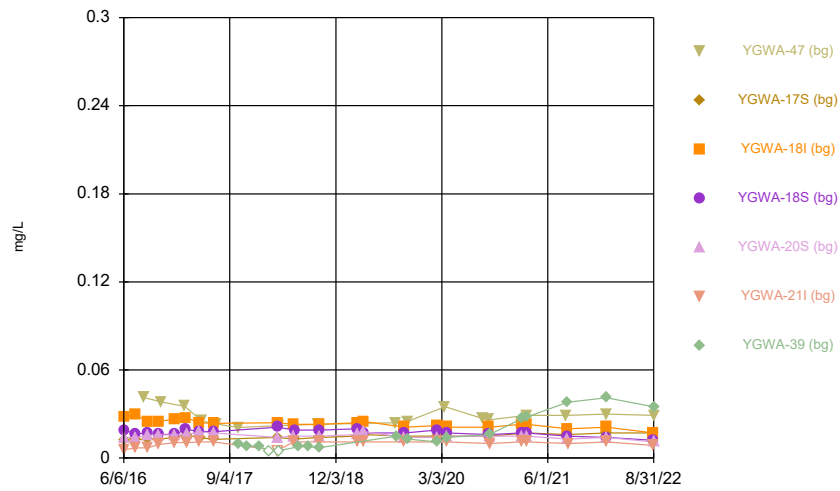
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Time Series



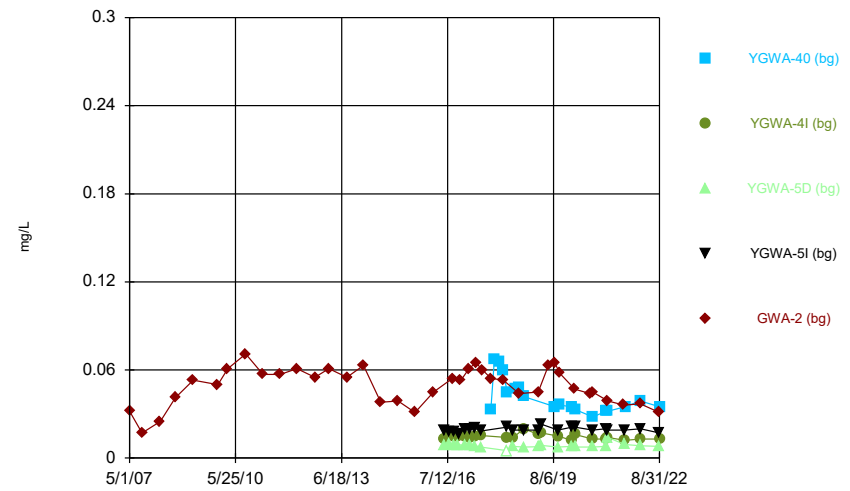
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Time Series



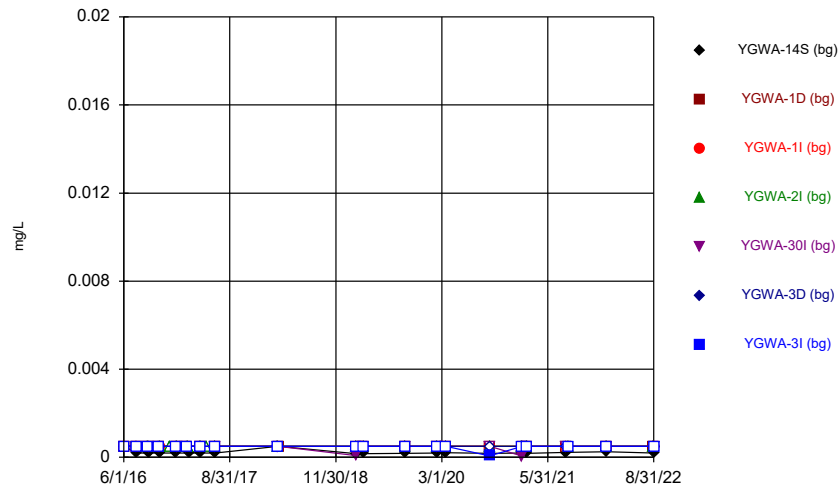
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Time Series



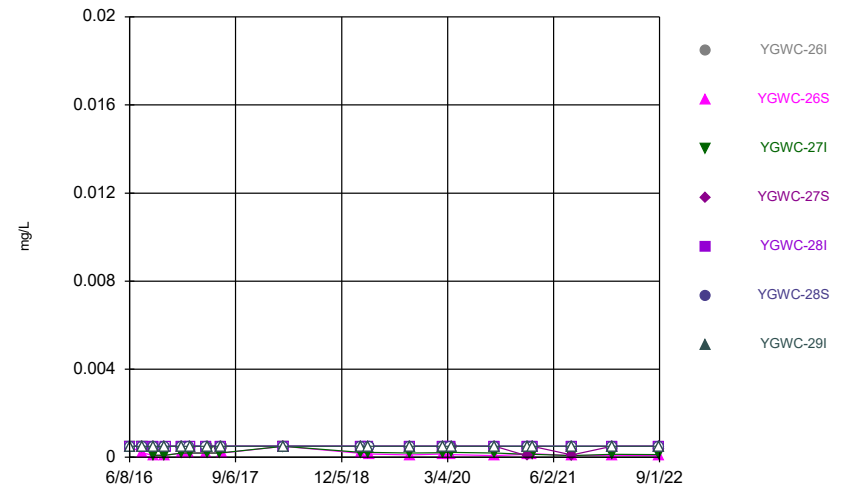
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Time Series



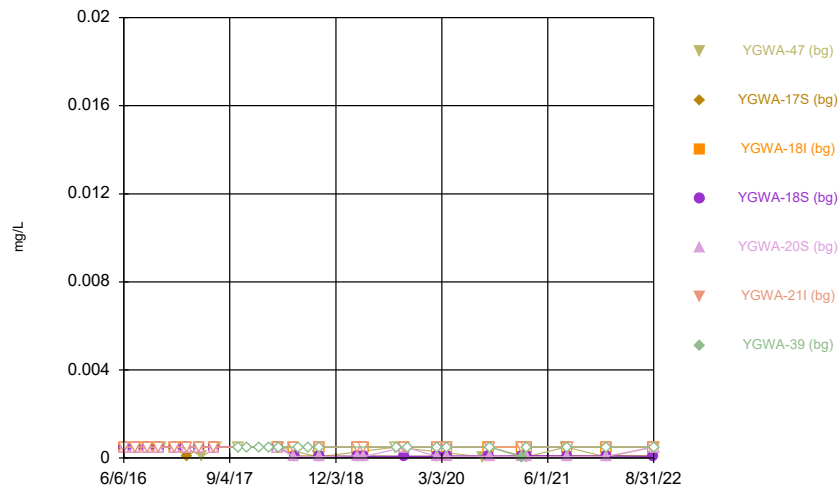
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Time Series



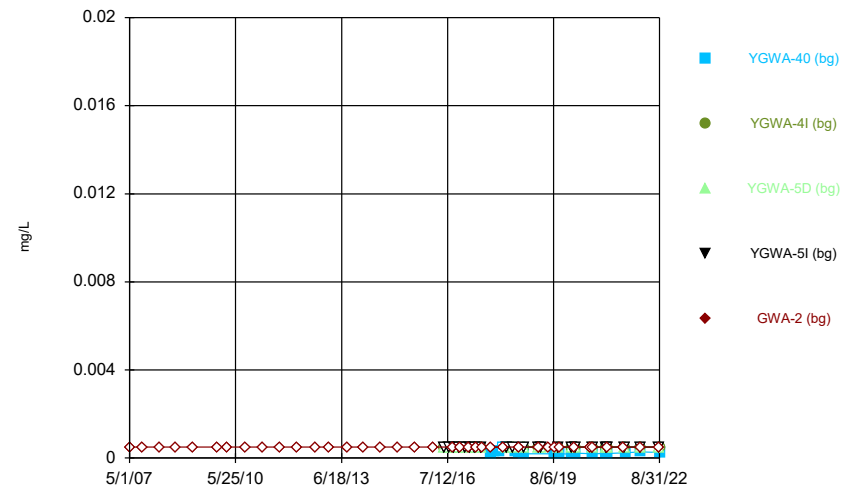
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Time Series



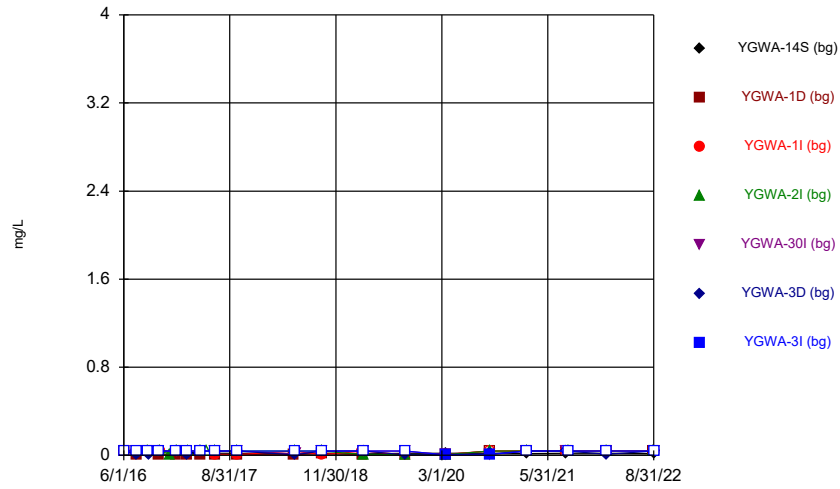
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Time Series



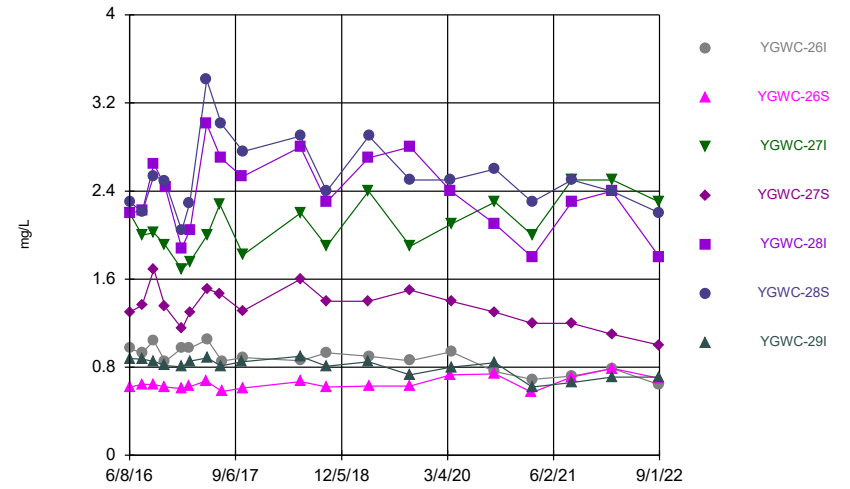
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Time Series



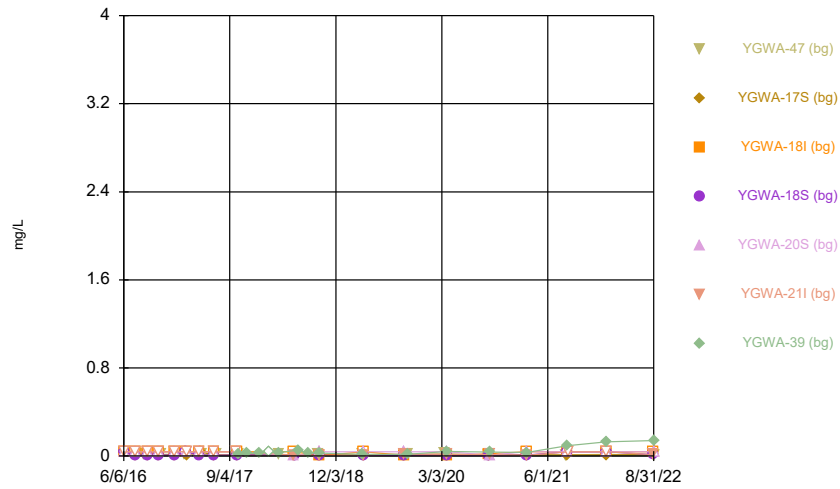
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Time Series



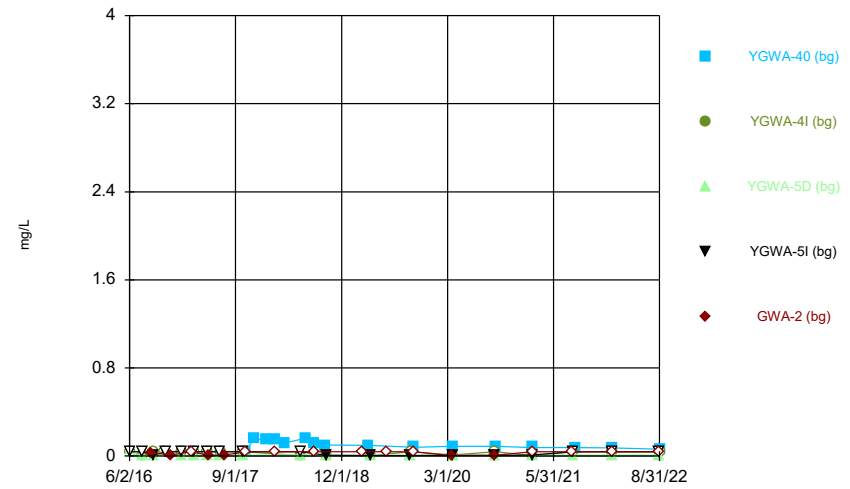
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Time Series



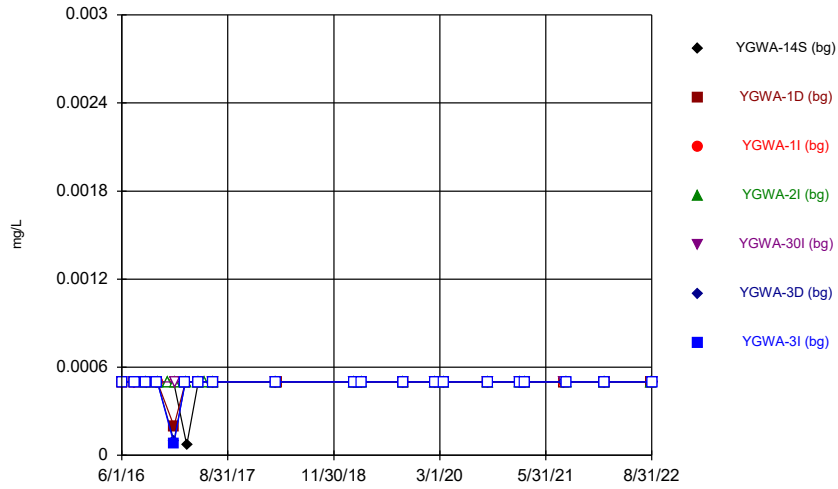
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Time Series



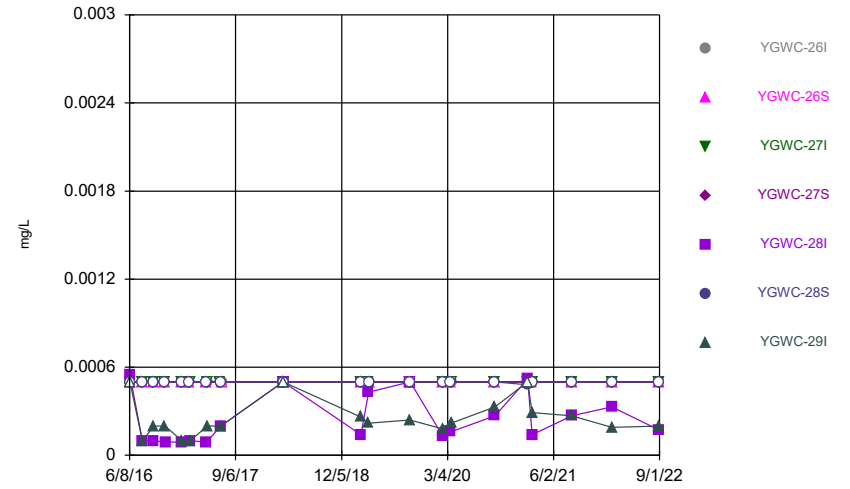
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Time Series



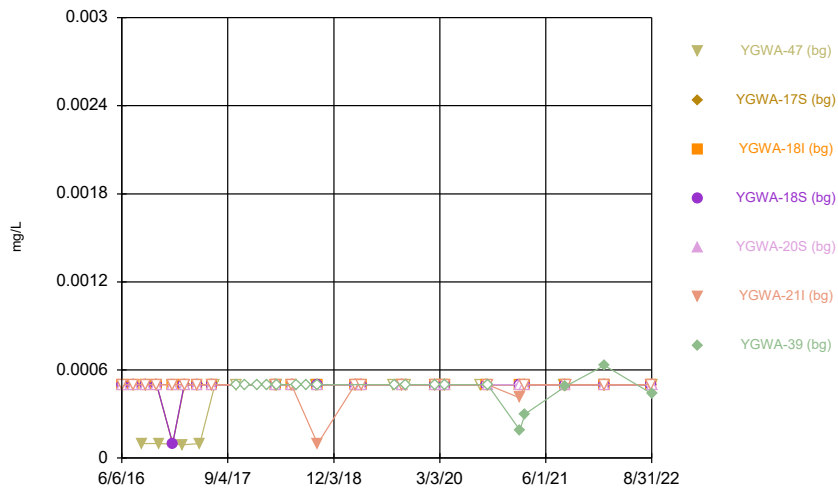
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Time Series



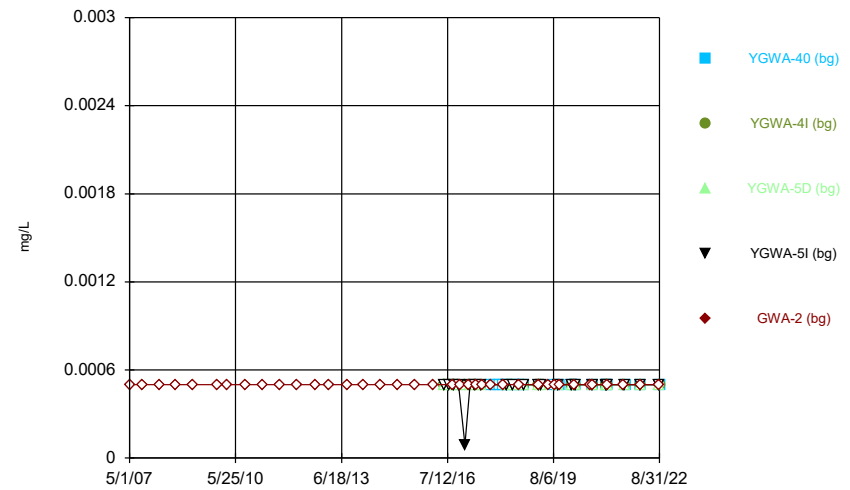
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Time Series



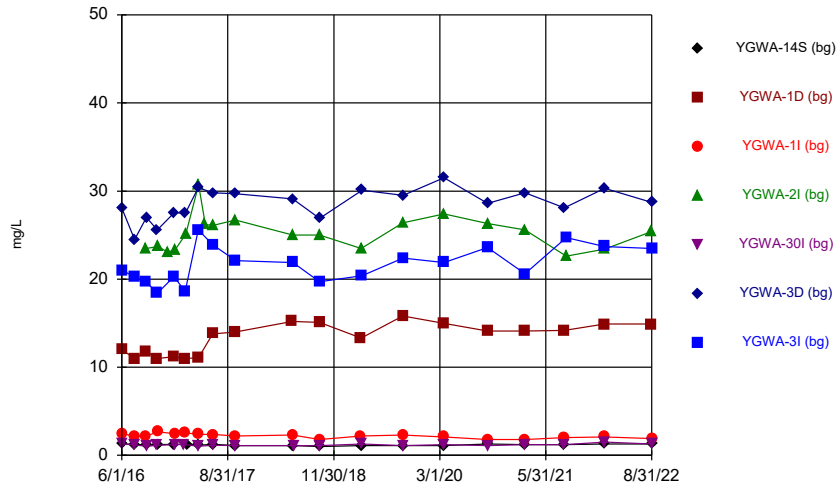
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Time Series



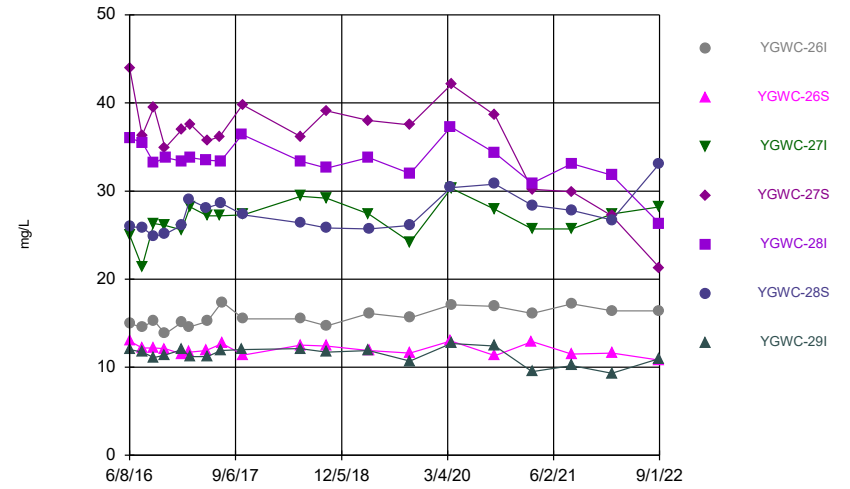
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Time Series



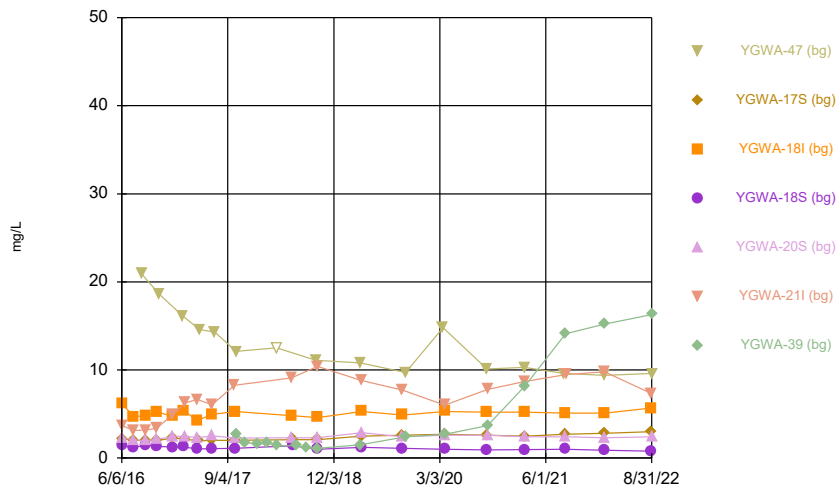
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Time Series



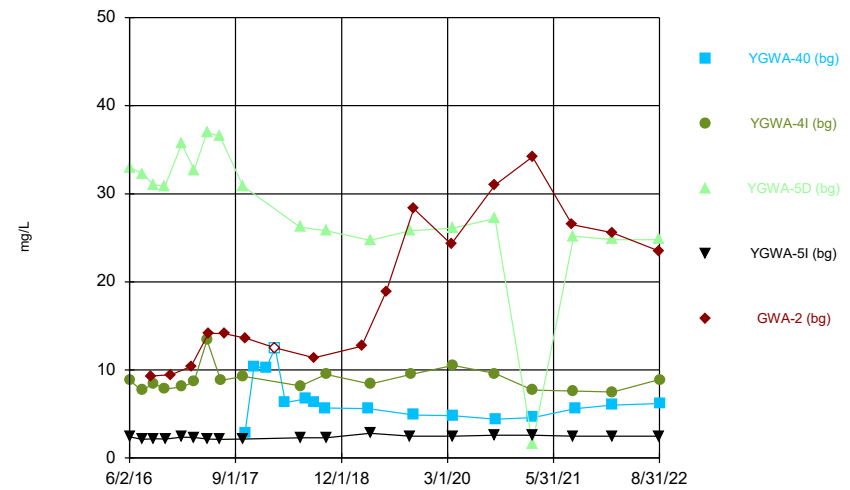
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Time Series



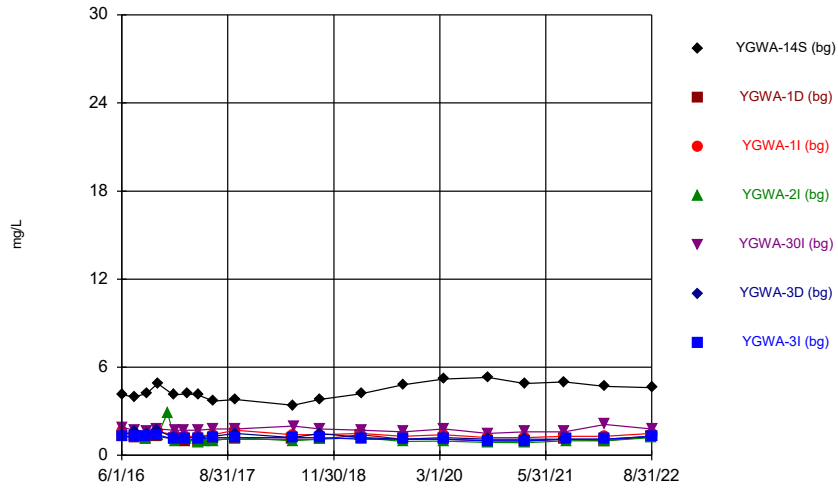
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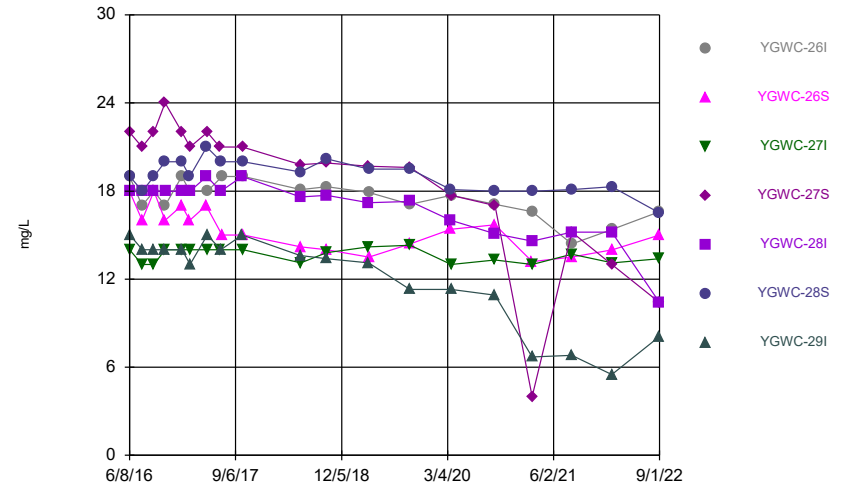
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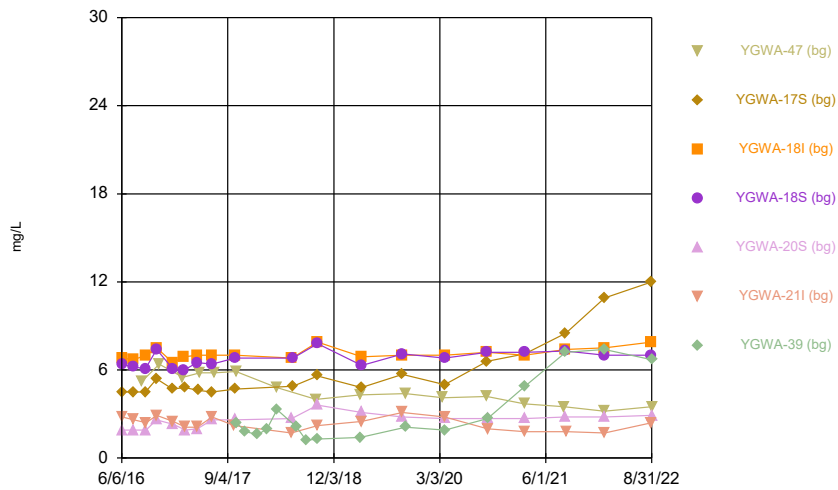
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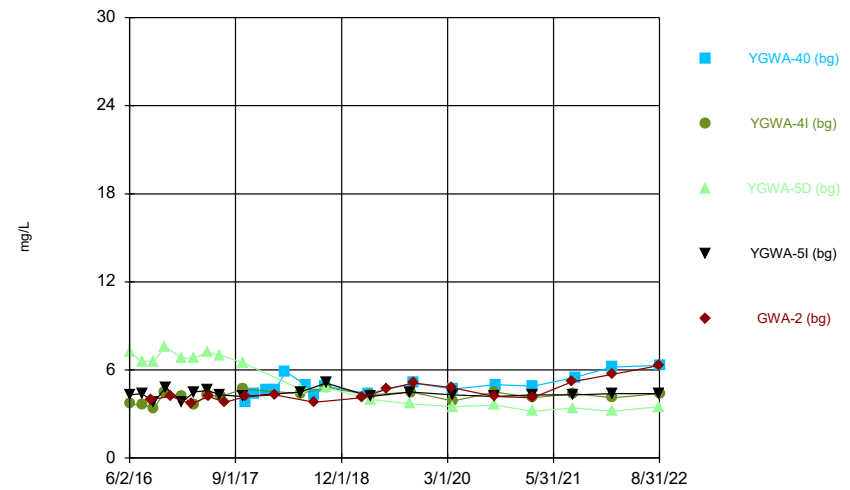
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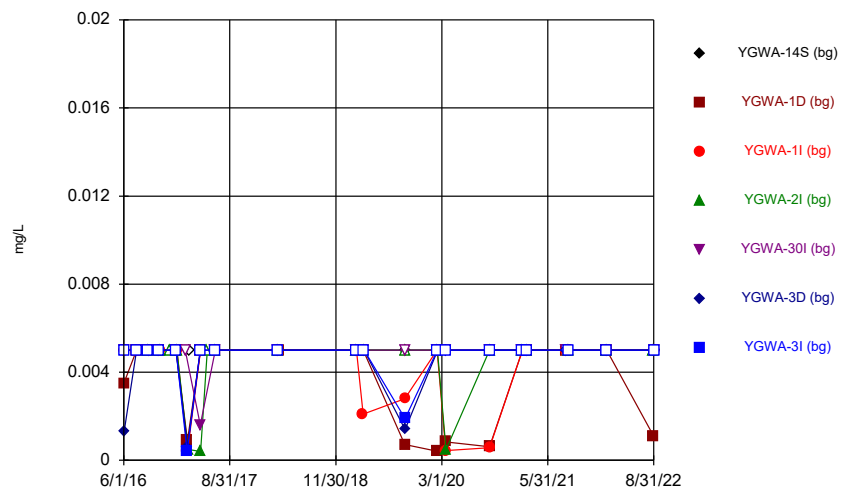
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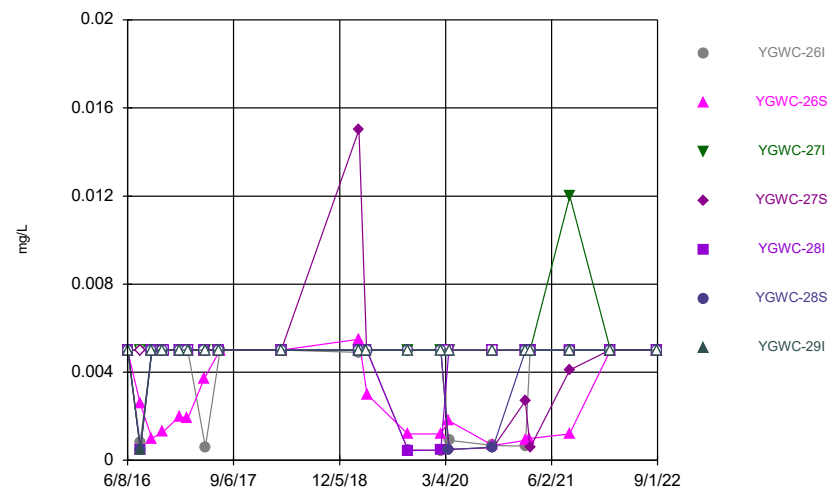
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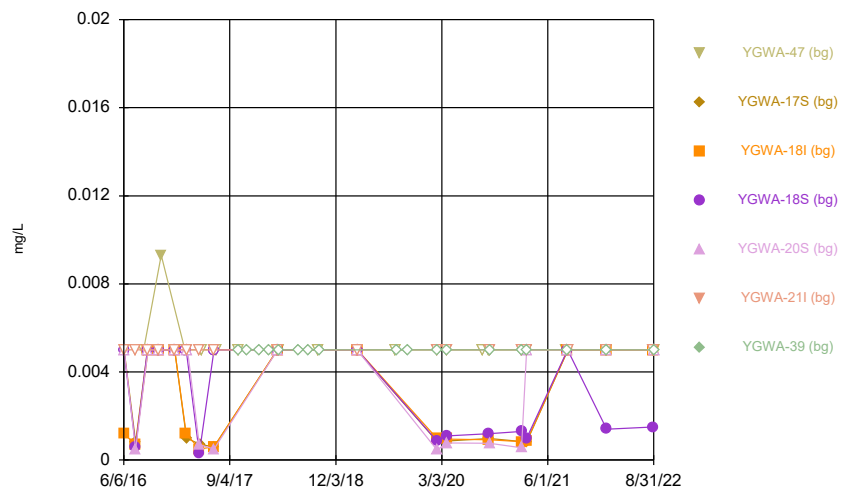
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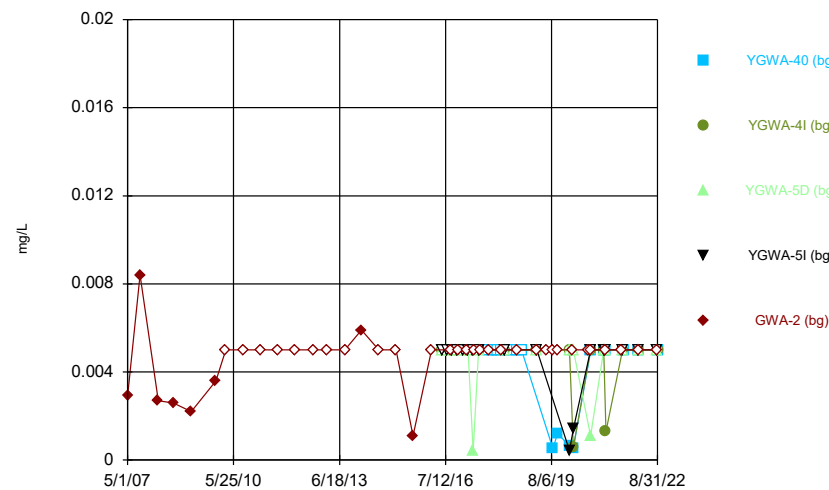
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Time Series



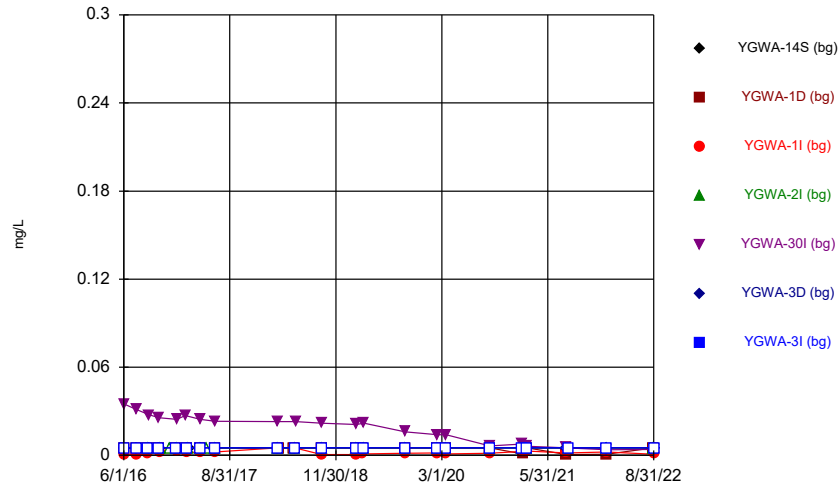
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Time Series



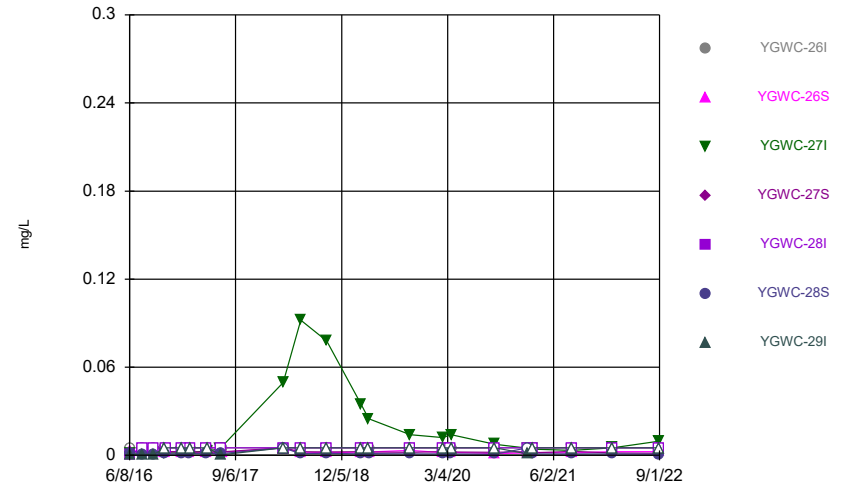
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Time Series



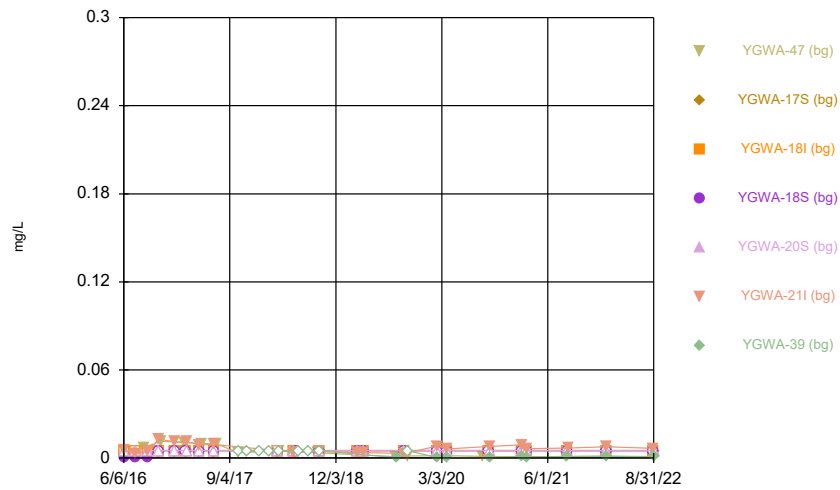
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Time Series



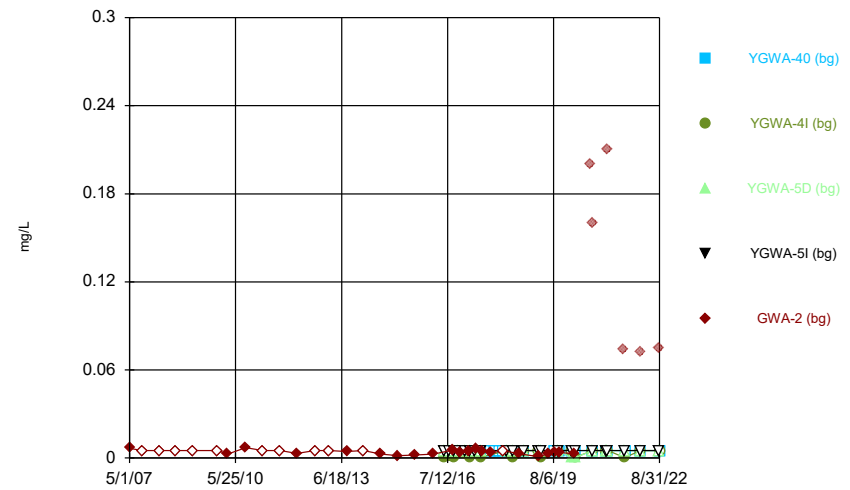
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Time Series



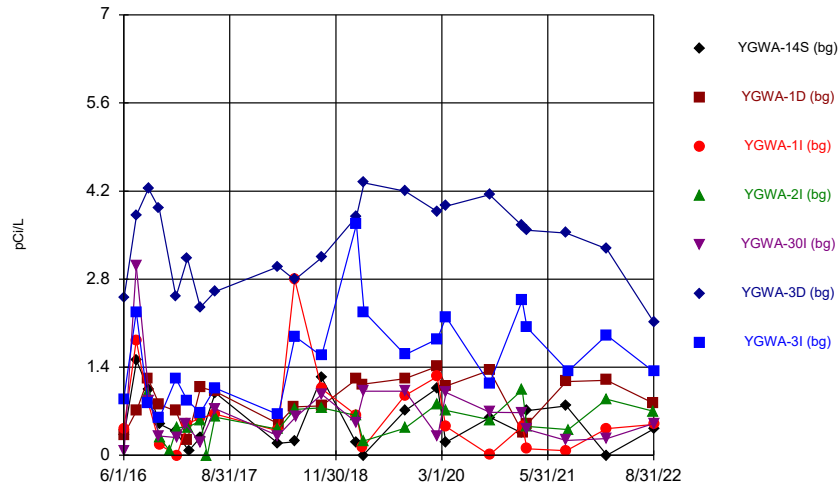
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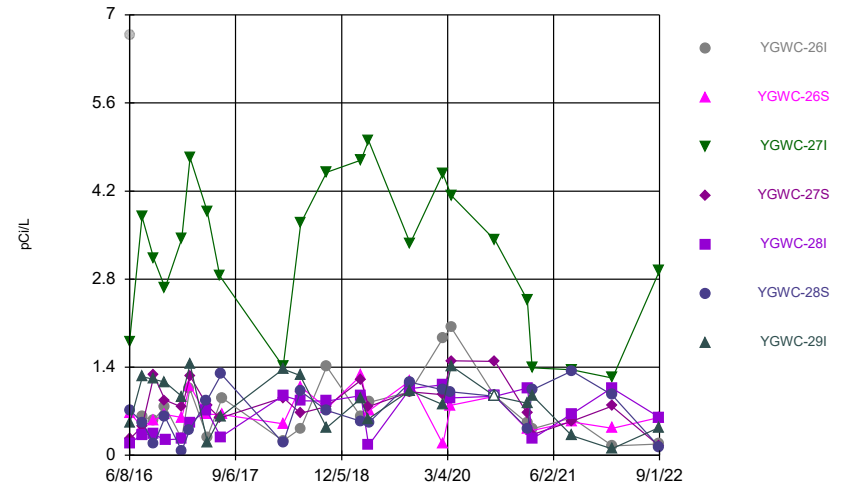
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Time Series



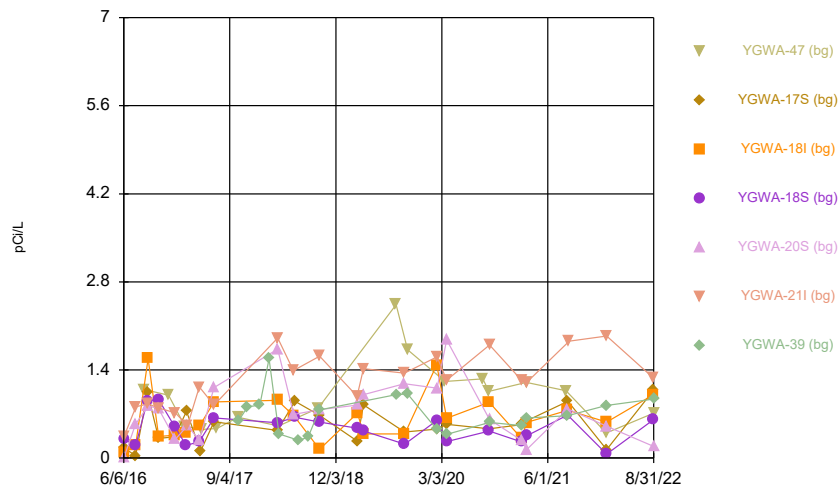
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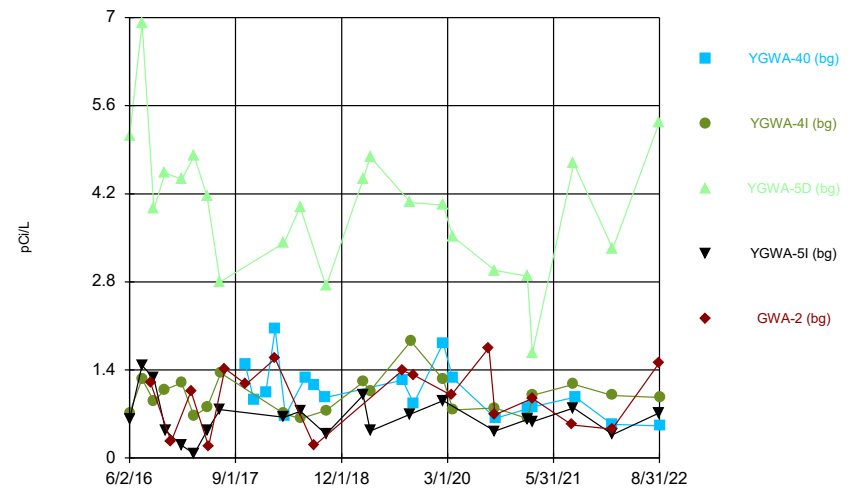
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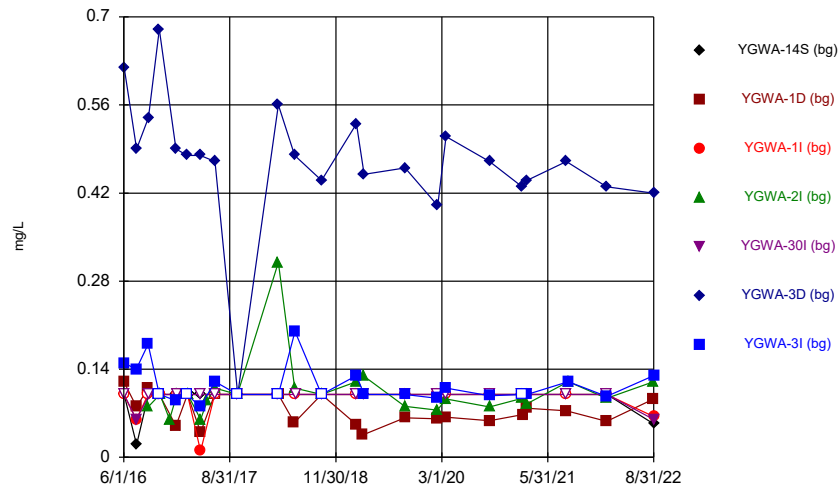
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Time Series



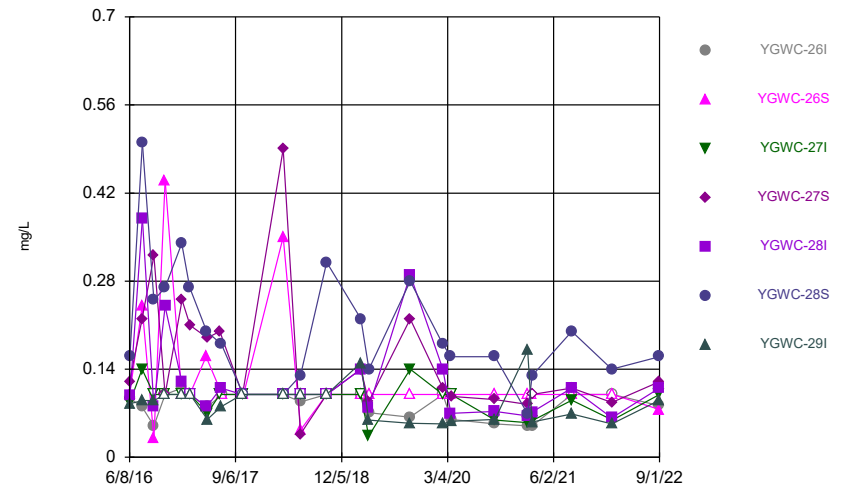
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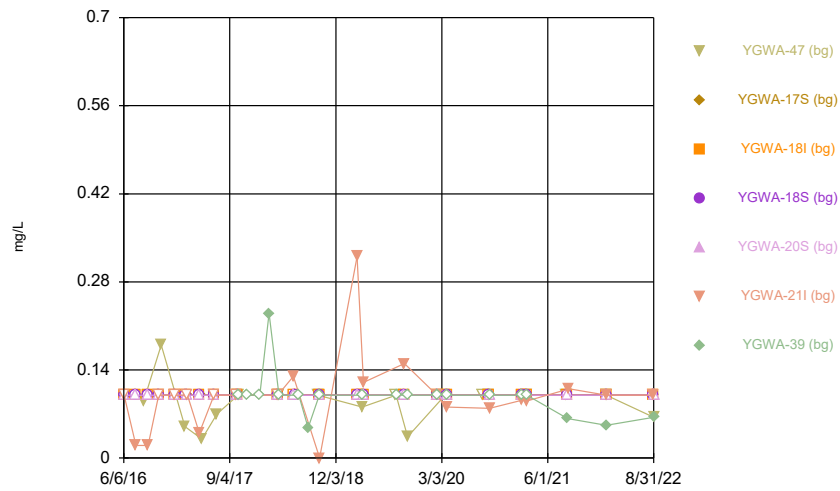
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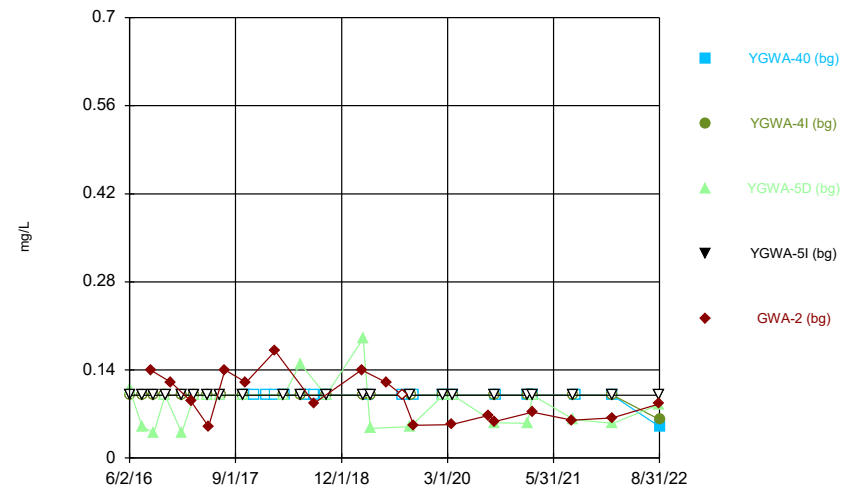
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



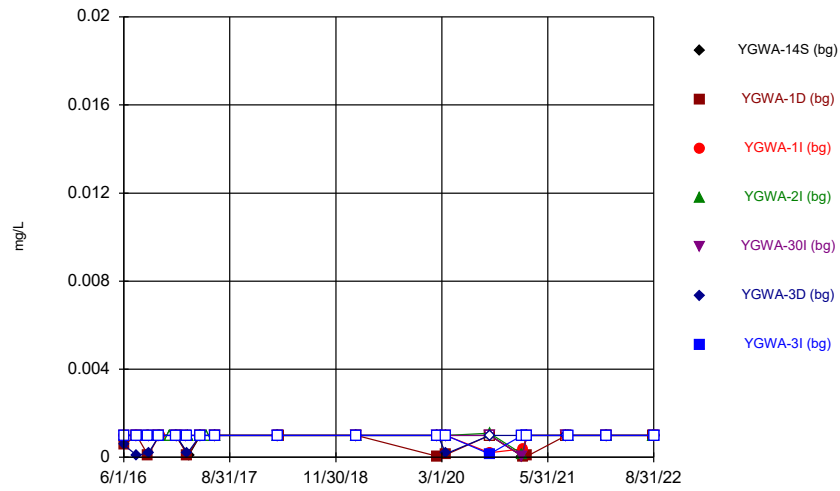
Constituent: Fluoride Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



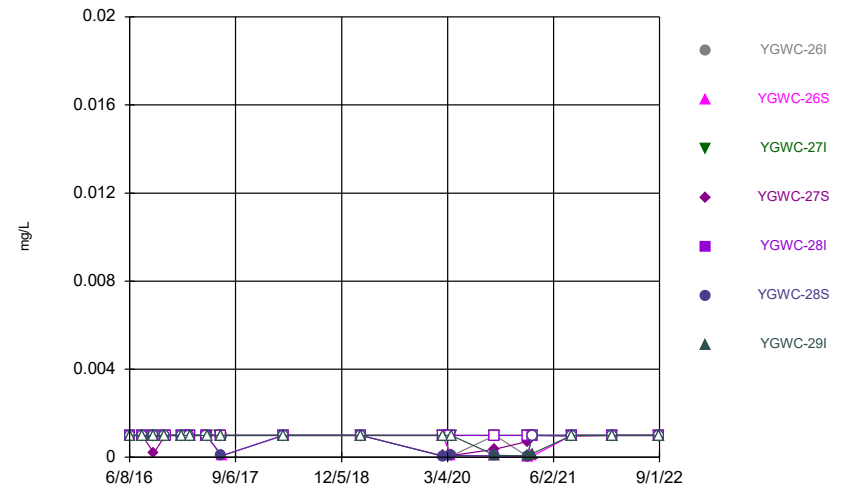
Constituent: Fluoride Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



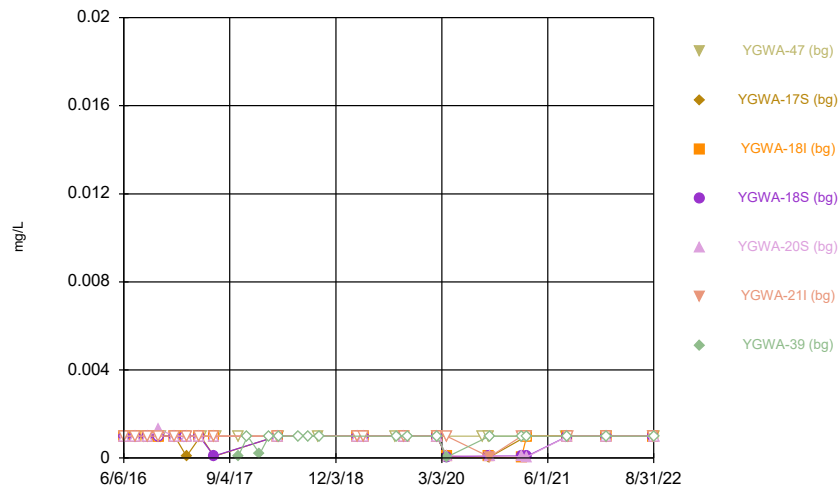
Constituent: Lead Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



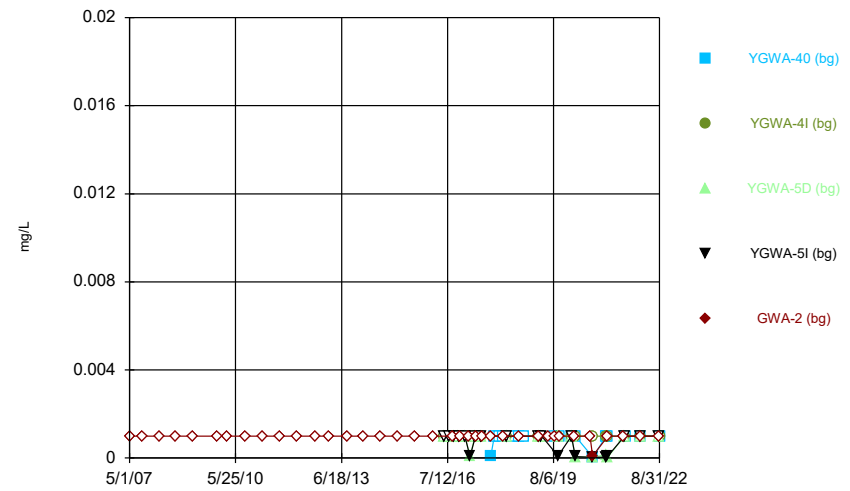
Constituent: Lead Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



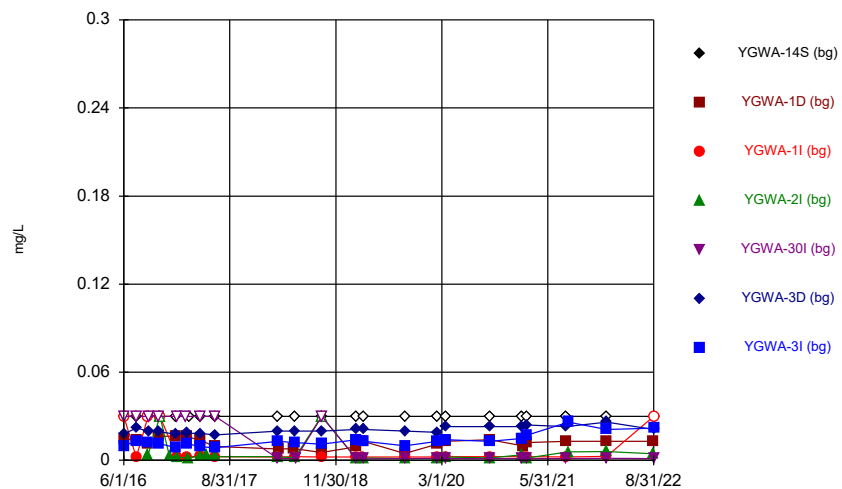
Constituent: Lead Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



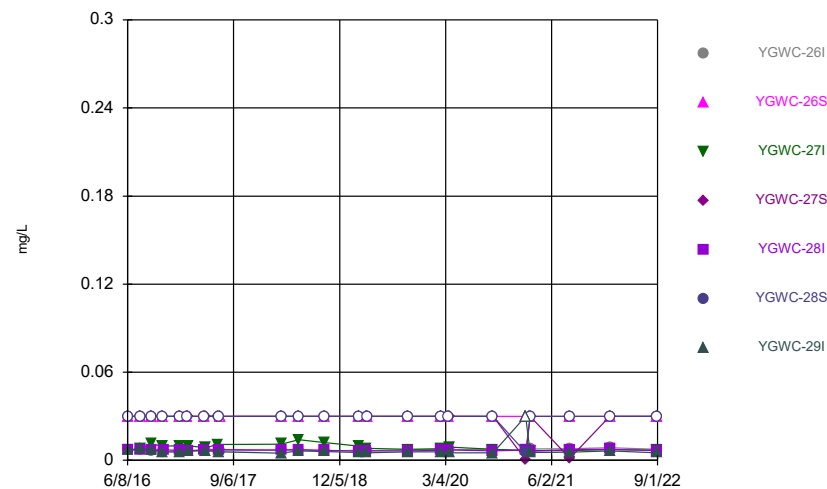
Constituent: Lead Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



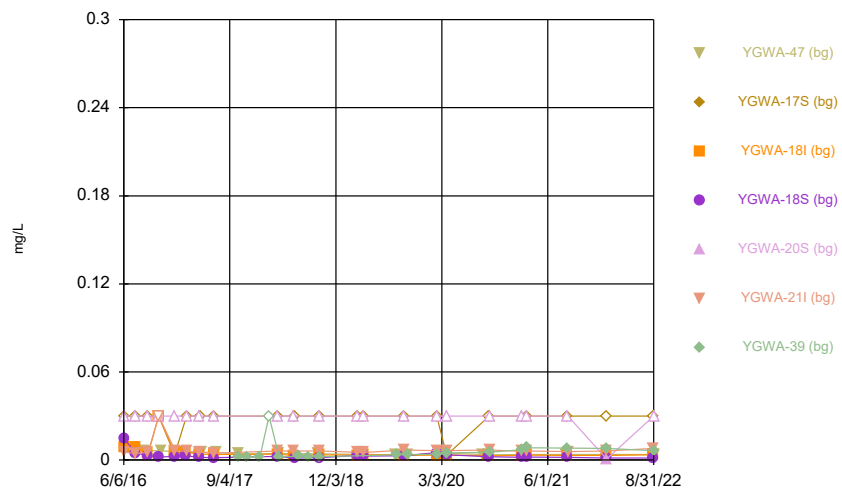
Constituent: Lithium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



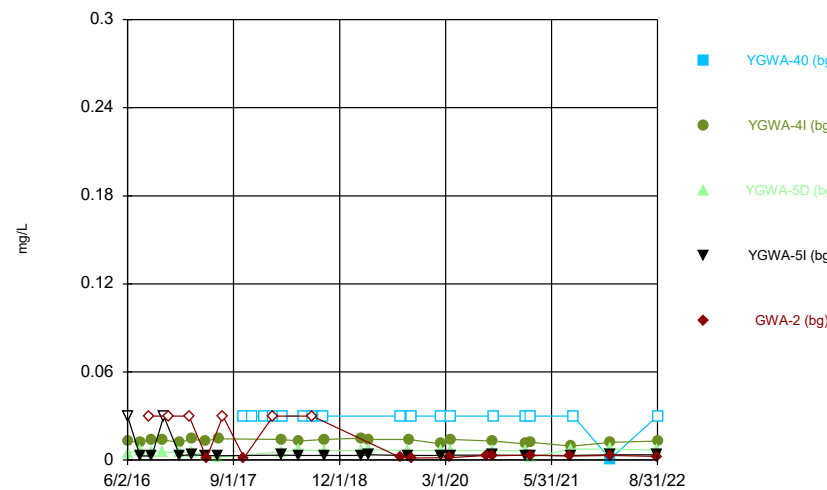
Constituent: Lithium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



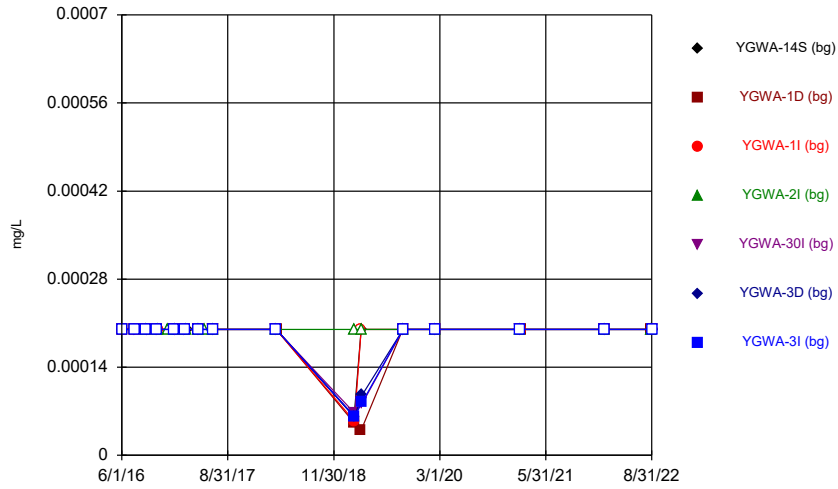
Constituent: Lithium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



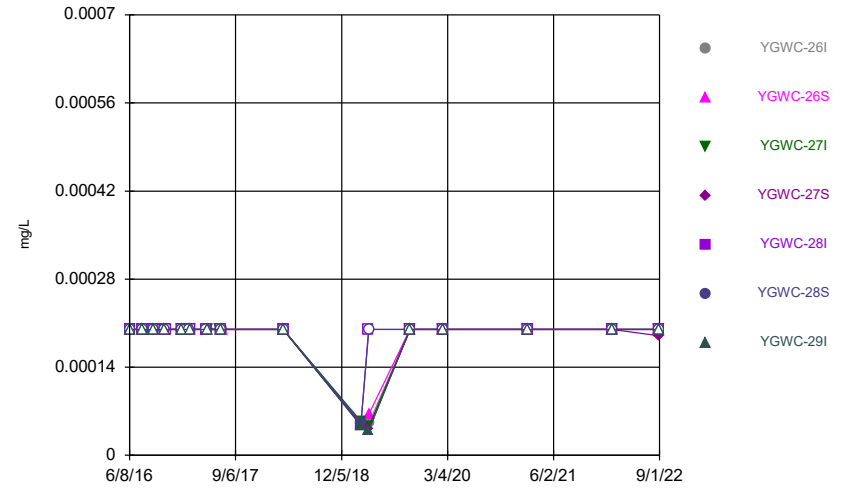
Constituent: Lithium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



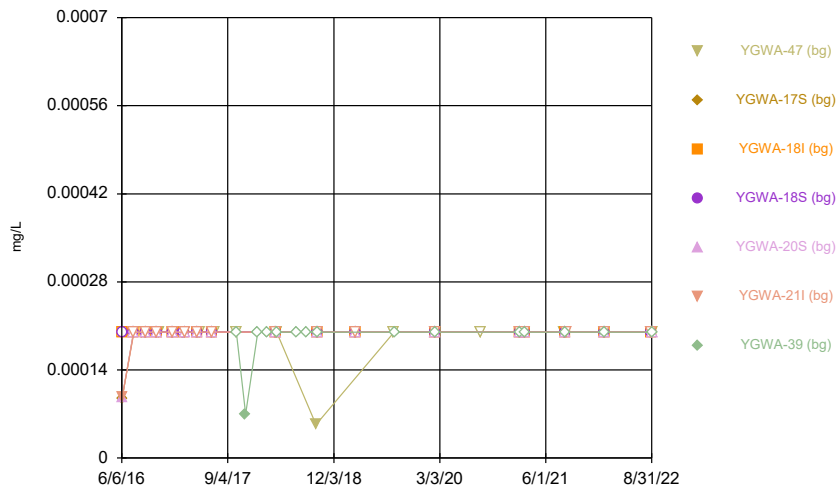
Constituent: Mercury Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



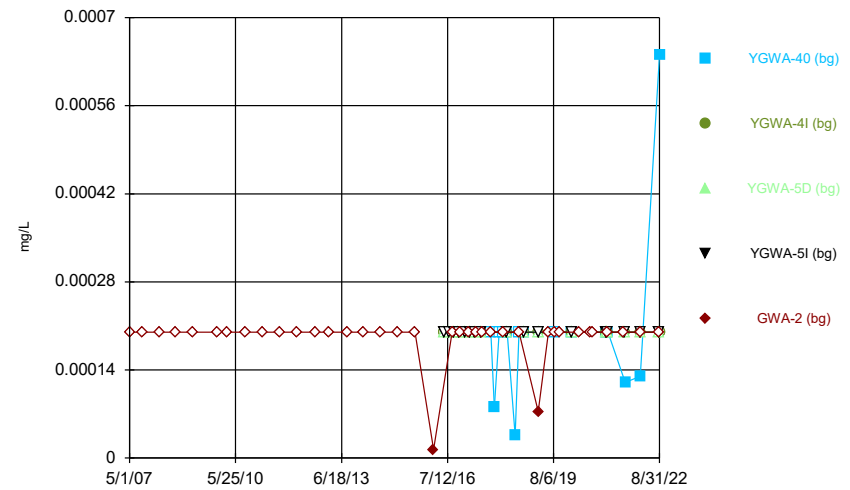
Constituent: Mercury Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



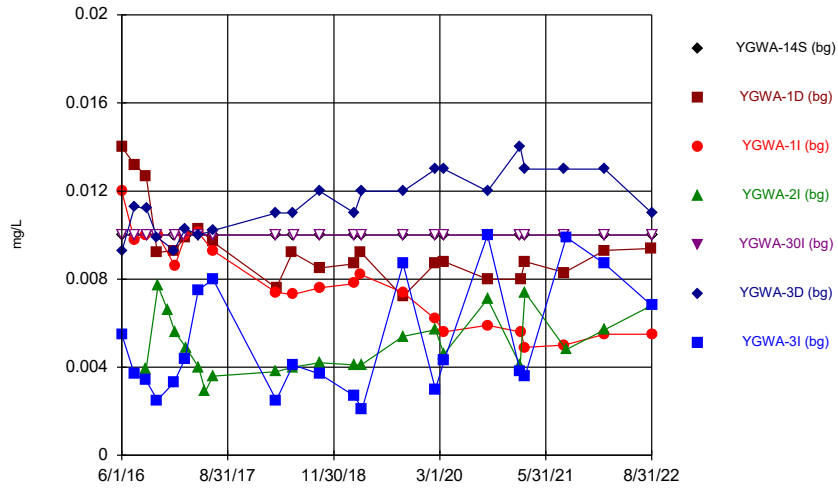
Constituent: Mercury Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



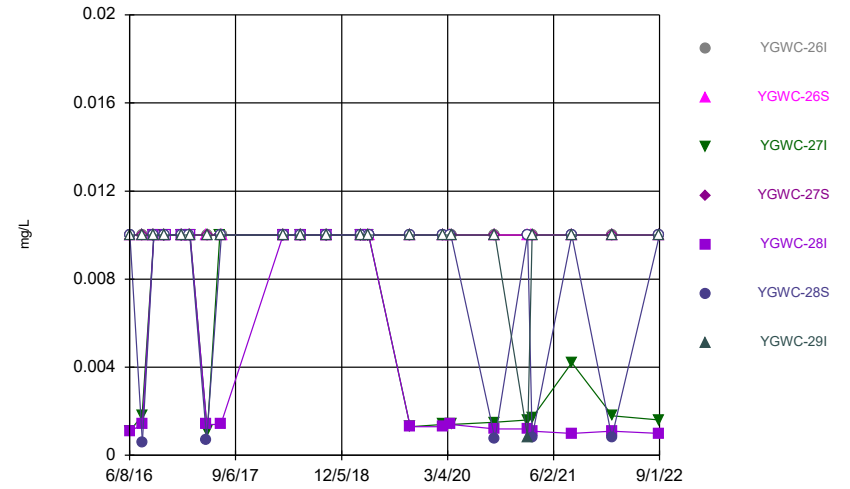
Constituent: Mercury Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



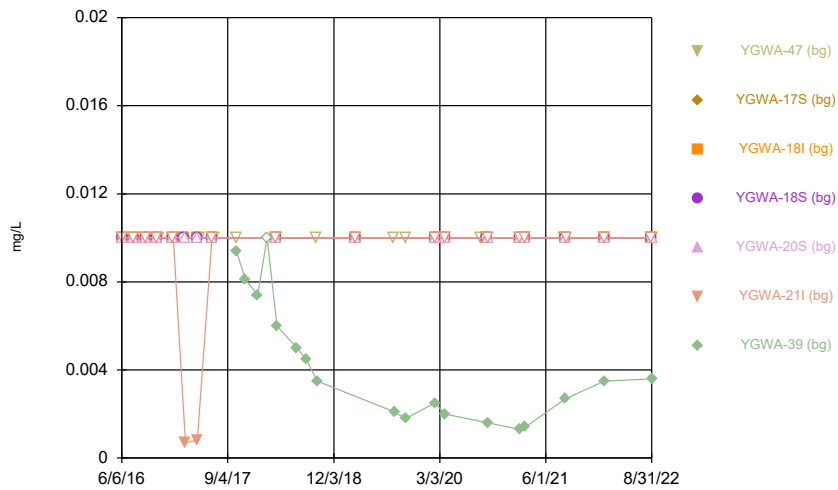
Constituent: Molybdenum Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



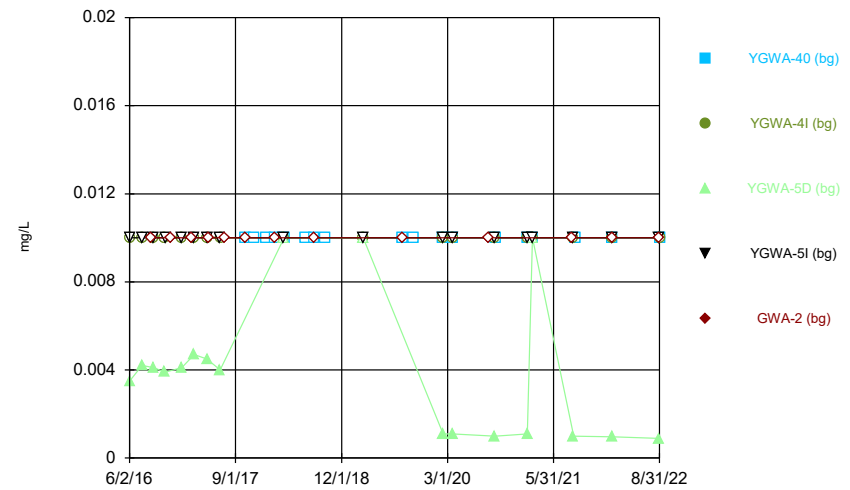
Constituent: Molybdenum Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



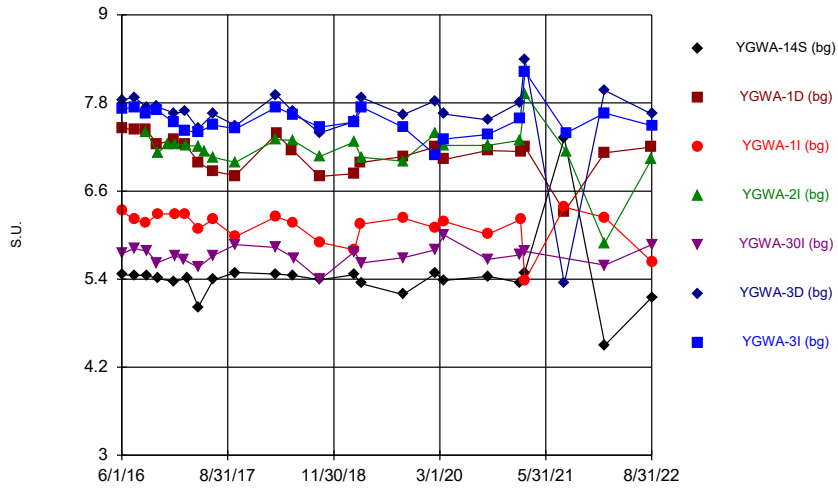
Constituent: Molybdenum Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



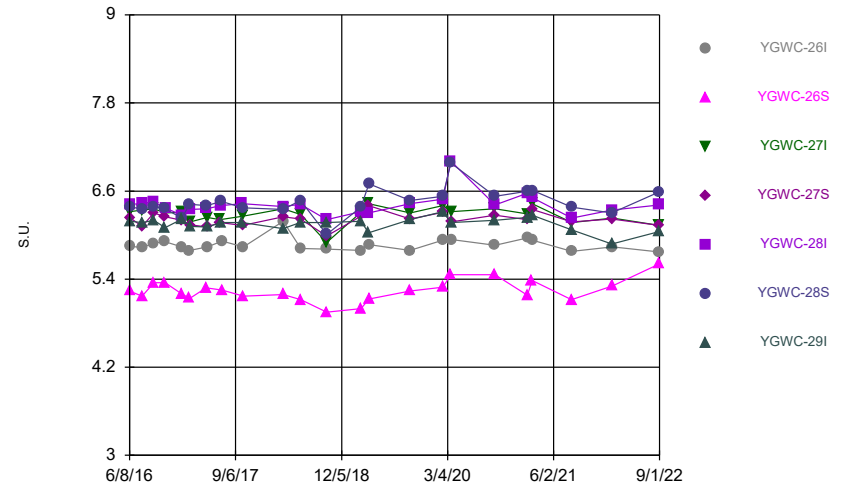
Constituent: Molybdenum Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



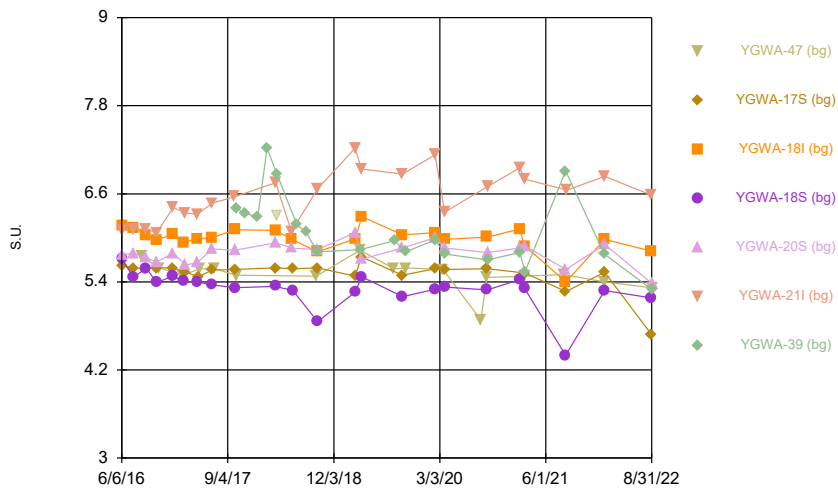
Constituent: pH Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



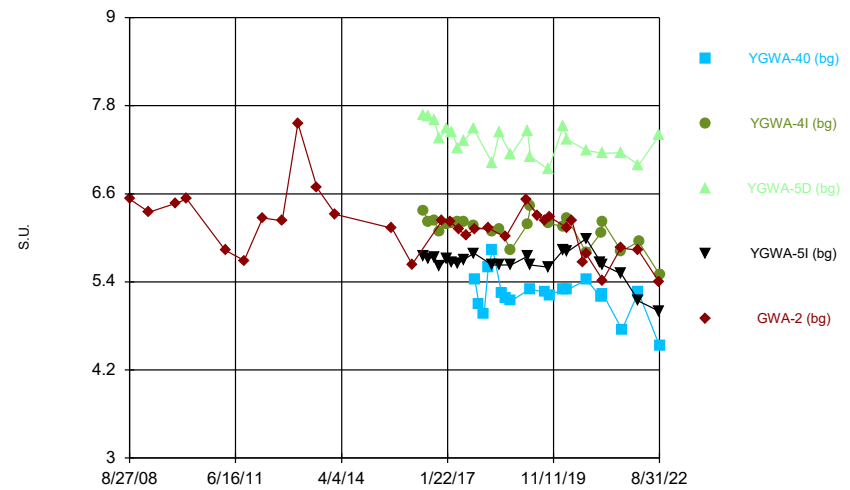
Constituent: pH Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



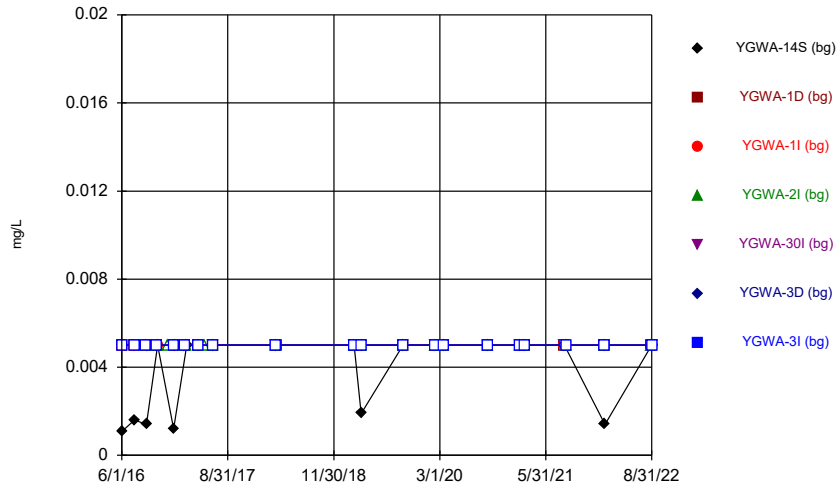
Constituent: pH Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



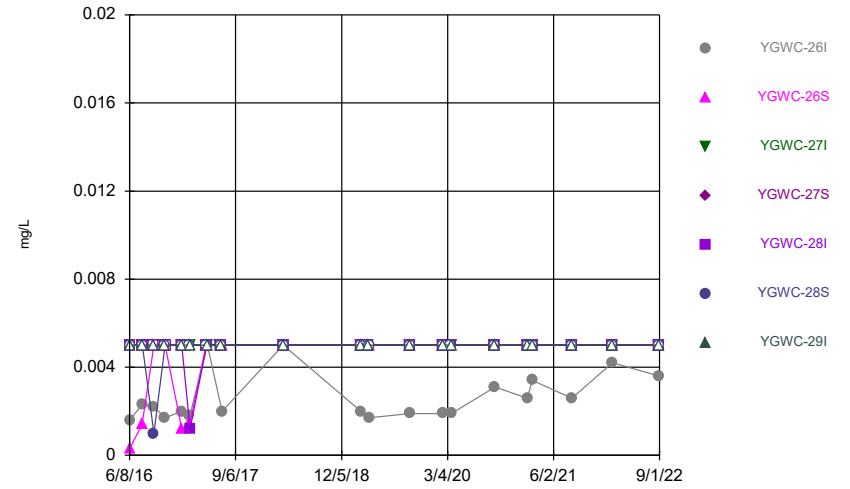
Constituent: pH Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



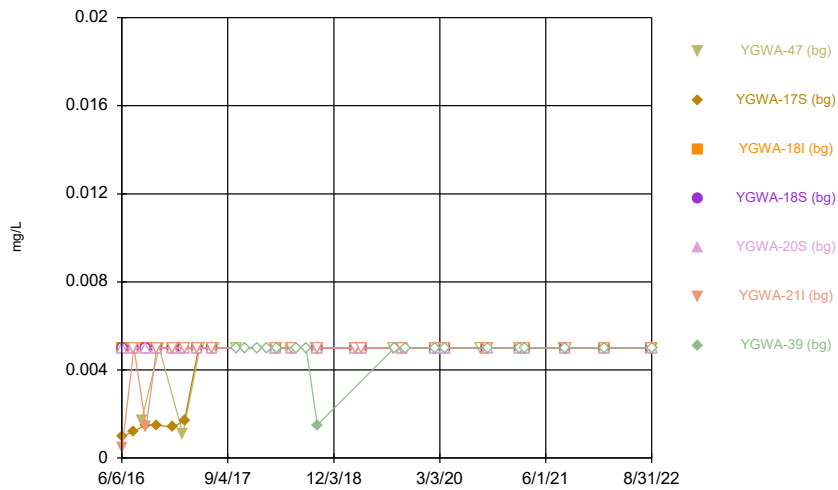
Constituent: Selenium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



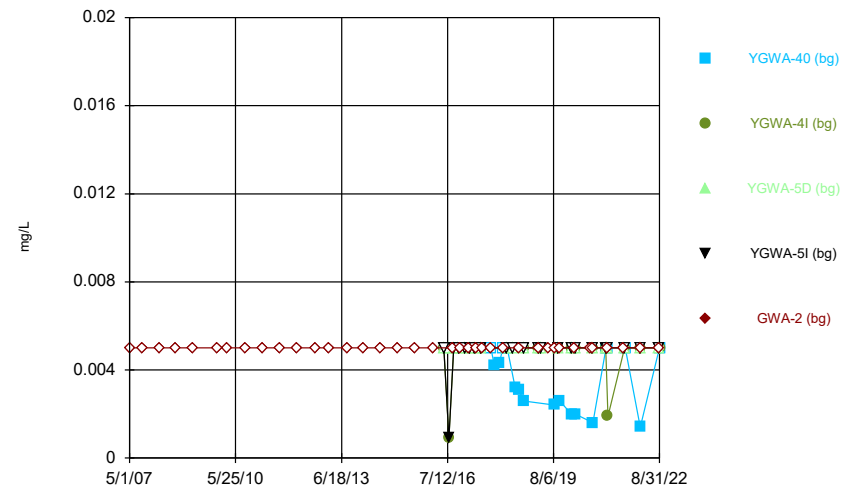
Constituent: Selenium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



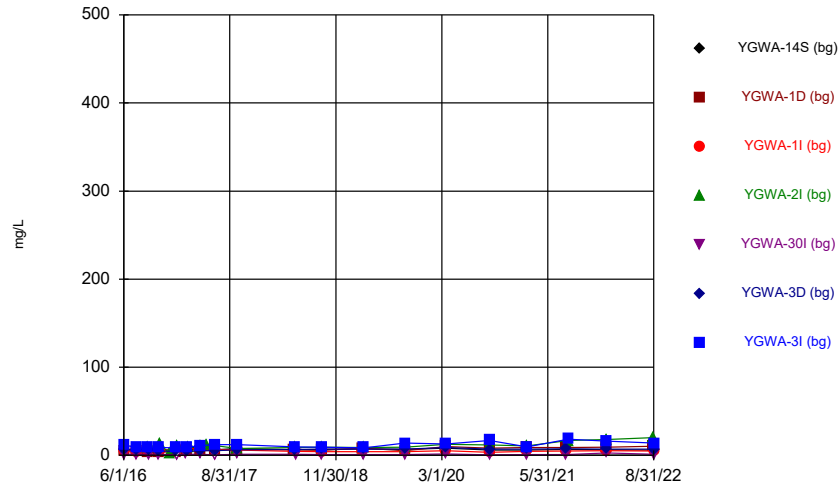
Constituent: Selenium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



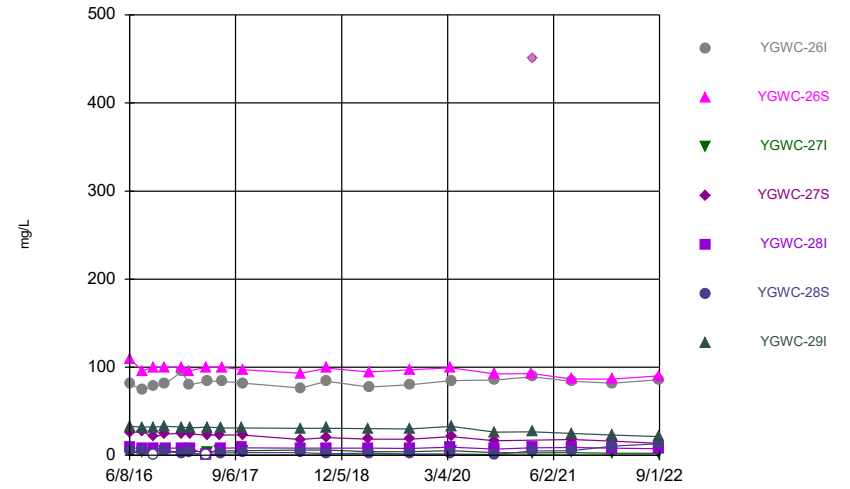
Constituent: Selenium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



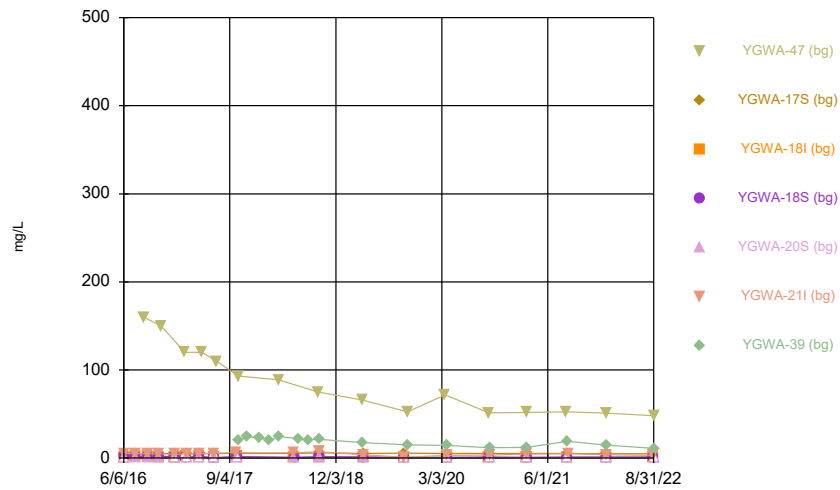
Constituent: Sulfate Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



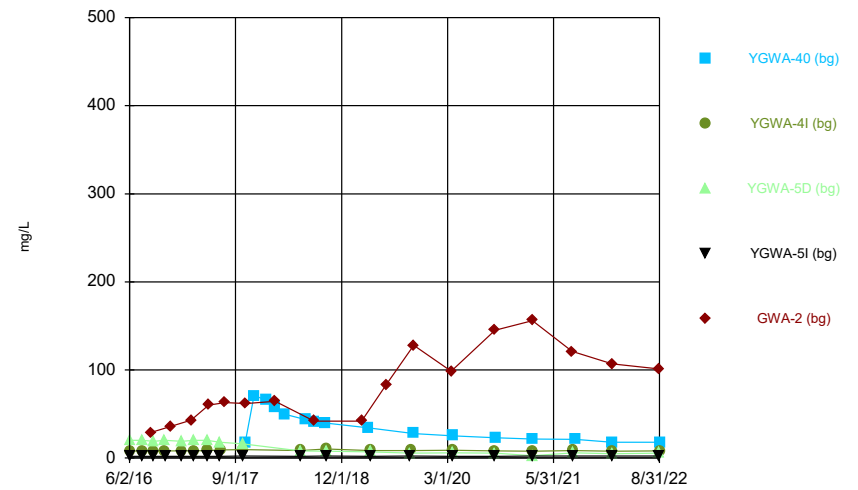
Constituent: Sulfate Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



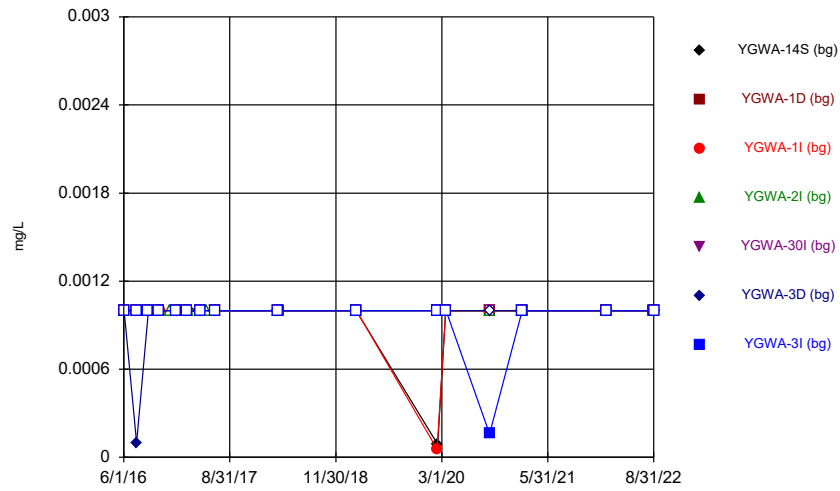
Constituent: Sulfate Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



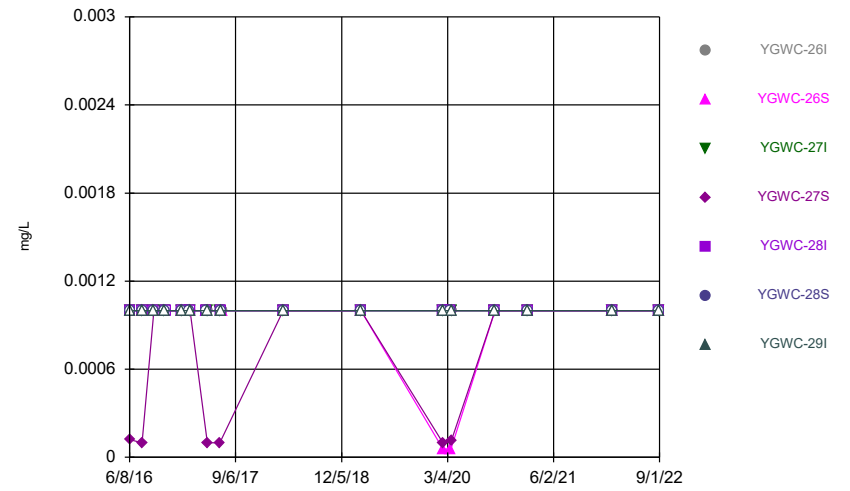
Constituent: Sulfate Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



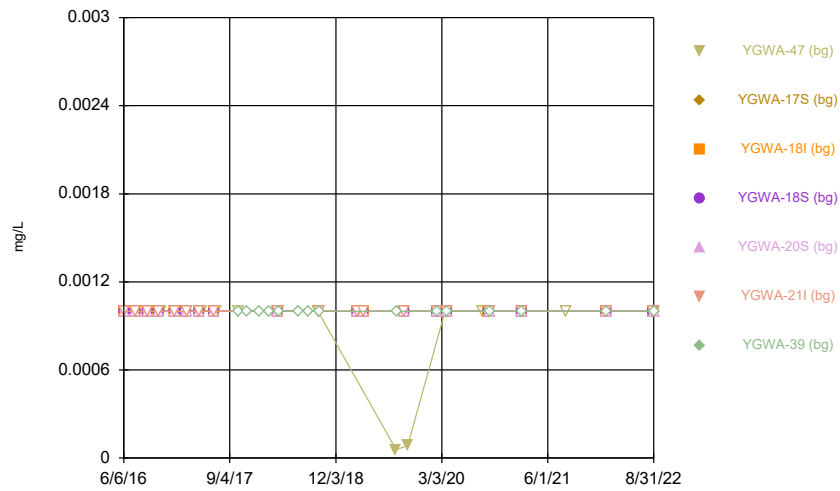
Constituent: Thallium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



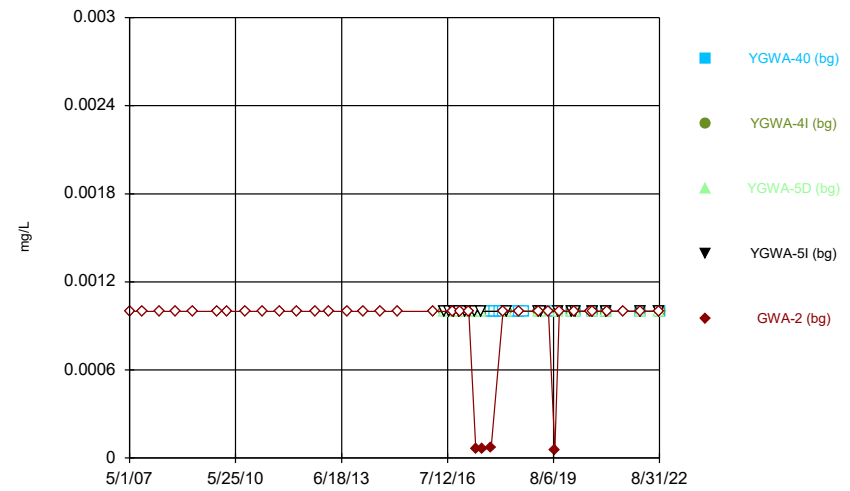
Constituent: Thallium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



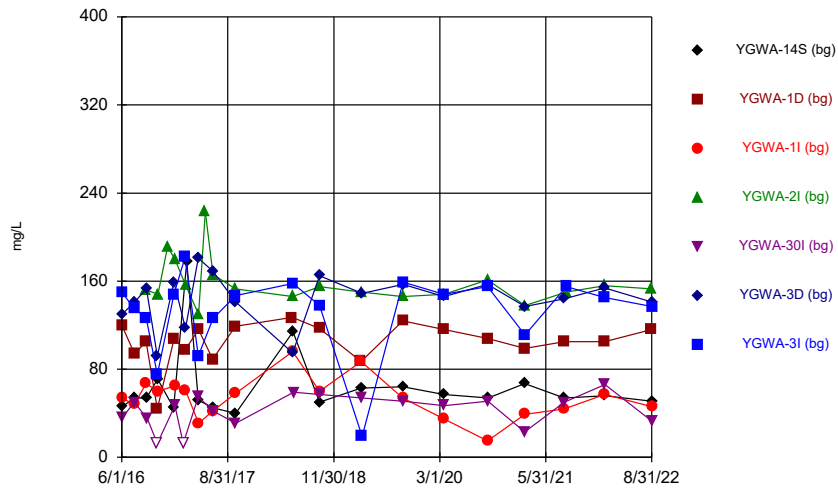
Constituent: Thallium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



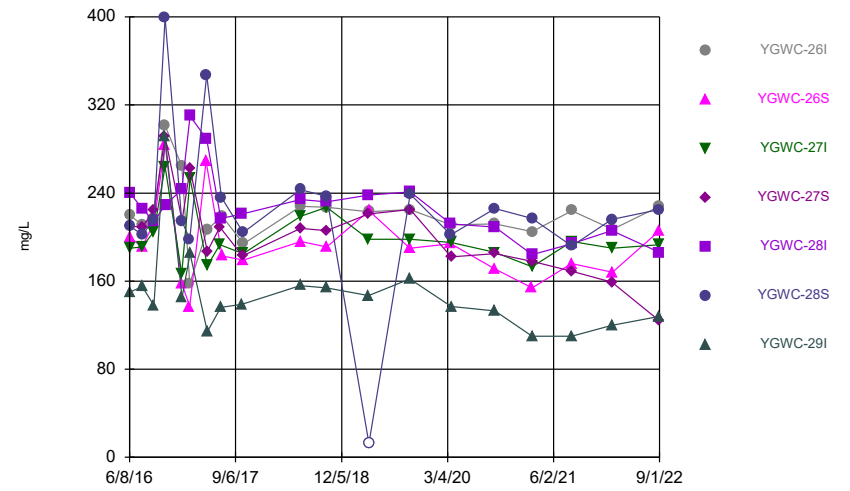
Constituent: Thallium Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



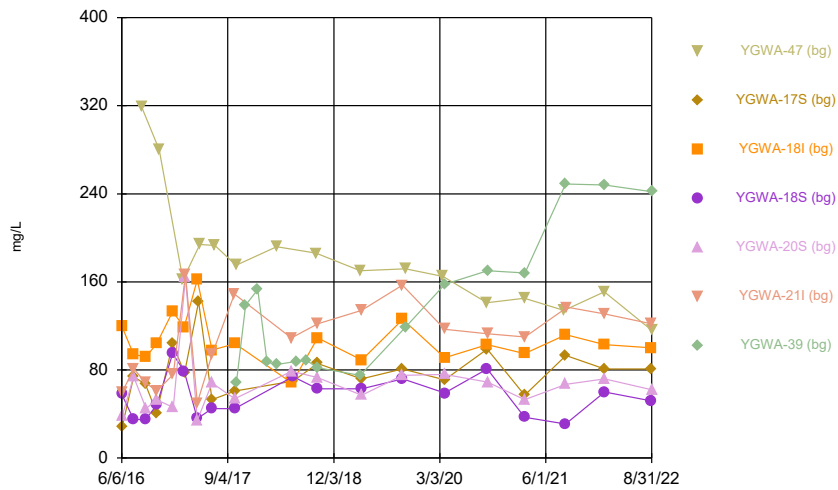
Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



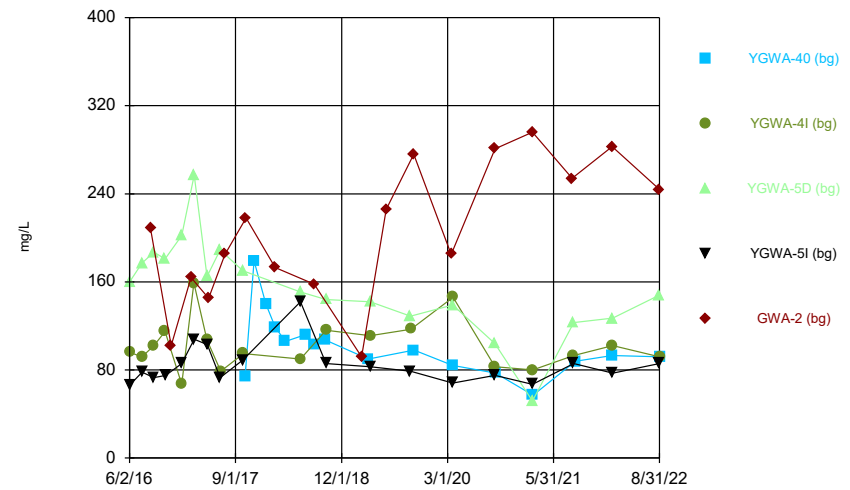
Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/13/2022 3:43 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.003	<0.003				<0.003
6/2/2016	<0.003				<0.003	<0.003	
7/25/2016			<0.003		<0.003		<0.003
7/26/2016	0.0005 (J)	0.001 (J)				0.002 (J)	
9/13/2016		0.001 (J)	<0.003				
9/14/2016				<0.003			<0.003
9/15/2016	<0.003					0.0027 (J)	
9/19/2016					<0.003		
11/1/2016		0.0015 (J)			<0.003	<0.003	<0.003
11/2/2016	<0.003						
11/4/2016			<0.003	<0.003			
12/15/2016				0.0012 (J)			
1/10/2017	<0.003						
1/11/2017		<0.003				<0.003	<0.003
1/16/2017			<0.003	<0.003	<0.003		
2/21/2017					<0.003		
3/1/2017							<0.003
3/2/2017		0.0004 (J)	<0.003			0.0008 (J)	
3/3/2017				<0.003			
3/8/2017	<0.003						
4/26/2017	<0.003				<0.003	<0.003	<0.003
4/27/2017		0.0004 (J)	0.0017 (J)				
4/28/2017				0.0015 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		<0.003	<0.003				
6/28/2017				<0.003		<0.003	<0.003
6/30/2017	<0.003				<0.003		
3/27/2018	<0.003		<0.003		<0.003		
3/28/2018				<0.003		<0.003	<0.003
3/29/2018		<0.003					
2/26/2019	<0.003				<0.003		
2/27/2019		<0.003	<0.003	<0.003		<0.003	<0.003
2/10/2020		0.00088 (J)	<0.003				
2/11/2020				0.00036 (J)			<0.003
2/12/2020	<0.003				<0.003	<0.003	
3/18/2020	<0.003		0.0004 (J)				
3/19/2020		<0.003		0.0003 (J)	<0.003	0.00064 (J)	<0.003
9/23/2020		<0.003	<0.003	<0.003		<0.003	<0.003
9/24/2020					<0.003		
9/25/2020	<0.003						
2/10/2021	<0.003			0.0013 (J)		<0.003	<0.003
2/11/2021					<0.003		
2/12/2021		<0.003	<0.003				
3/1/2021					<0.003		
3/2/2021	<0.003						
3/3/2021		<0.003	<0.003	<0.003		<0.003	<0.003
8/19/2021	<0.003	<0.003	<0.003		<0.003	<0.003	
8/27/2021				<0.003			<0.003
2/9/2022		<0.003	<0.003	<0.003		0.0018 (J)	<0.003
2/10/2022	<0.003						
2/11/2022					<0.003		
8/30/2022		<0.003		<0.003			

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/31/2022	<0.003		<0.003		<0.003	<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/13/2022 3:43 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.003	<0.003	<0.003	<0.003			
6/9/2016					<0.003	<0.003	<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003			
8/2/2016					<0.003	<0.003	<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003			
9/21/2016					<0.003	<0.003	<0.003
11/7/2016	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003
11/8/2016					<0.003		
1/18/2017	<0.003	<0.003	<0.003		<0.003	<0.003	
1/19/2017				<0.003			<0.003
2/21/2017	<0.003	<0.003				<0.003	
2/22/2017				<0.003	<0.003		<0.003
2/23/2017			<0.003				
5/3/2017		<0.003					
5/5/2017					<0.003	<0.003	
5/8/2017	<0.003		<0.003	<0.003			<0.003
6/30/2017			<0.003	<0.003			
7/5/2017					<0.003		<0.003
7/7/2017						<0.003	
7/10/2017	<0.003	<0.003					
3/29/2018			<0.003	<0.003			<0.003
3/30/2018	<0.003	<0.003			<0.003	<0.003	
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
3/19/2020		0.0017 (J)			<0.003	<0.003	
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)			<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003	<0.003	<0.003			
2/11/2021					<0.003		
2/12/2021						<0.003	<0.003
3/2/2021		<0.003					
3/3/2021	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
8/19/2021		<0.003					
8/20/2021	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
2/8/2022				<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003				
8/31/2022	0.001 (J)	<0.003					
9/1/2022			<0.003	<0.003	<0.003	<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/13/2022 3:43 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.003	<0.003			
6/7/2016		<0.003			<0.003	<0.003	
7/27/2016		<0.003	0.0005 (J)	<0.003	<0.003		
7/28/2016						<0.003	
8/30/2016	0.0028 (J)						
9/16/2016		<0.003		<0.003			
9/19/2016			<0.003		<0.003	0.001 (J)	
11/2/2016					<0.003		
11/3/2016		<0.003	<0.003	<0.003		<0.003	
11/14/2016	<0.003						
1/11/2017		<0.003	<0.003	<0.003			
1/13/2017					<0.003	<0.003	
2/24/2017	<0.003						
3/1/2017			<0.003	<0.003			
3/2/2017		<0.003					
3/6/2017					<0.003	0.0005 (J)	
4/26/2017			<0.003	<0.003	<0.003	<0.003	
5/2/2017		<0.003					
5/8/2017	0.0004 (J)						
6/28/2017			<0.003	<0.003			
6/29/2017		<0.003			<0.003	<0.003	
7/11/2017	0.0006 (J)						
10/10/2017	<0.003						
10/11/2017							0.0006 (J)
11/20/2017							<0.003
1/11/2018							<0.003
2/20/2018							<0.003
3/28/2018		<0.003	<0.003	<0.003			
3/29/2018					<0.003	<0.003	
4/2/2018	<0.003						
4/3/2018							<0.003
6/28/2018							<0.003
8/7/2018							<0.003
9/19/2018	<0.003						
9/24/2018							<0.003
3/5/2019		<0.003		<0.003	<0.003	0.0011 (J)	
3/6/2019			<0.003				
4/2/2019		<0.003				0.0011 (J)	
4/3/2019			<0.003	<0.003	<0.003		
8/20/2019	<0.003						
8/21/2019							<0.003
9/24/2019						0.0035	
9/25/2019		<0.003			<0.003		
9/26/2019			0.00056 (J)	<0.003			
2/11/2020		<0.003	<0.003	<0.003			
2/12/2020					<0.003	0.0015 (J)	<0.003
3/24/2020		<0.003	<0.003	<0.003	<0.003	0.0017 (J)	
3/25/2020							0.0014 (J)
8/27/2020	0.00048 (J)						
9/22/2020	<0.003						
9/23/2020		<0.003	<0.003	<0.003			
9/24/2020					<0.003	0.0047	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/9/2021			<0.003	<0.003	0.00032 (J)	0.0013 (J)	
2/10/2021							<0.003
3/1/2021	0.00048 (J)						
3/3/2021		<0.003	<0.003	0.00067 (J)	<0.003		
3/4/2021						0.0014 (J)	<0.003
8/19/2021	<0.003						
8/26/2021				<0.003			<0.003
8/27/2021		<0.003	<0.003		<0.003		
9/1/2021						<0.003	
2/8/2022	<0.003						<0.003
2/9/2022		<0.003	<0.003	<0.003	<0.003	<0.003	
8/30/2022		<0.003	<0.003	<0.003		0.0046	
8/31/2022	<0.003				<0.003		<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.003	<0.003	<0.003	
7/26/2016		0.0003 (J)	<0.003	<0.003	
8/31/2016					<0.003
9/14/2016		<0.003	<0.003	<0.003	
11/2/2016		<0.003	<0.003		
11/4/2016				<0.003	
11/28/2016					0.0014 (J)
1/12/2017			<0.003	<0.003	
1/13/2017		<0.003			
2/22/2017					<0.003
3/6/2017		<0.003			
3/7/2017			<0.003	<0.003	
5/1/2017		<0.003	<0.003		
5/2/2017				<0.003	
5/8/2017					<0.003
6/27/2017			<0.003	<0.003	
6/29/2017		<0.003			
7/17/2017					<0.003
10/12/2017	<0.003				
10/16/2017					<0.003
11/20/2017	<0.003				
1/10/2018	<0.003				
2/19/2018	<0.003				<0.003
3/29/2018		<0.003	<0.003	<0.003	
4/3/2018	<0.003				
6/28/2018	<0.003				
8/6/2018					<0.003
8/7/2018	<0.003				
9/24/2018	<0.003				
2/25/2019					<0.003
3/4/2019		<0.003	<0.003	<0.003	
4/3/2019		<0.003	<0.003	<0.003	
6/12/2019					<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.003
8/21/2019	<0.003				
9/24/2019			<0.003	<0.003	
9/25/2019		<0.003			
10/8/2019					<0.003
2/12/2020	<0.003	<0.003	<0.003	<0.003	
3/17/2020					<0.003
3/24/2020	<0.003		<0.003	<0.003	
3/25/2020		<0.003			
8/26/2020					0.00042 (J)
9/22/2020		<0.003	<0.003	<0.003	0.00044 (J)
9/24/2020	<0.003				
2/8/2021			<0.003	<0.003	
2/9/2021		<0.003			
2/10/2021	<0.003				
3/2/2021			<0.003	<0.003	<0.003
3/3/2021		<0.003			
3/4/2021	<0.003				
8/20/2021					<0.003
8/26/2021		<0.003	<0.003	<0.003	
9/3/2021	<0.003				
2/8/2022	<0.003				<0.003
2/10/2022			<0.003	<0.003	
2/11/2022		<0.003			
8/30/2022			<0.003	<0.003	<0.003
8/31/2022	<0.003	<0.003			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/13/2022 3:43 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0021	<0.005				<0.005
6/2/2016	<0.005				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	0.0016 (J)				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	0.0017 (J)			
12/15/2016				0.0023 (J)			
1/10/2017	<0.005						
1/11/2017		0.0017 (J)				<0.005	<0.005
1/16/2017			<0.005	0.0018 (J)	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0014 (J)	<0.005			<0.005	
3/3/2017				0.0016 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		0.0018 (J)	<0.005				
4/28/2017				0.002 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		0.0018 (J)	<0.005				
6/28/2017				0.0016 (J)		0.0007 (J)	0.0011 (J)
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				0.0013 (J)		<0.005	<0.005
3/29/2018		0.0017 (J)					
6/5/2018		0.0013 (J)					
6/6/2018			<0.005				
6/7/2018				0.00082 (J)		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					<0.005		
10/1/2018	<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005	<0.005
10/2/2018					<0.005		
2/26/2019	<0.005				<0.005		
2/27/2019		0.0015 (J)	<0.005	0.001 (J)		<0.005	<0.005
3/28/2019		0.00072 (J)	<0.005				
3/29/2019	<0.005			0.00063 (J)			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.0014 (J)	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		0.0026 (J)	0.0005 (J)				
2/11/2020				0.0044 (J)			0.0041 (J)
2/12/2020	<0.005				0.0032 (J)	0.0038 (J)	
3/18/2020	<0.005		<0.005				
3/19/2020		0.00095 (J)		0.00066 (J)	<0.005	<0.005	<0.005
9/23/2020		0.0011 (J)	<0.005	0.001 (J)		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		0.00094 (J)	0.00078 (J)
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	0.00098 (J)		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.0031 (J)	0.0033 (J)	0.0037 (J)		0.002 (J)	0.0018 (J)
2/10/2022	0.0016 (J)						
2/11/2022					0.0014 (J)		
8/30/2022		<0.005		0.0027 (J)			
8/31/2022	<0.005		<0.005		<0.005	0.0028 (J)	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/13/2022 3:43 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	<0.005
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		<0.005
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
3/29/2018			0.0006 (J)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
6/11/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
10/2/2018	<0.005	<0.005	<0.005	<0.005			<0.005
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	<0.005				<0.005	
9/25/2019	<0.005	<0.005					<0.005
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				
8/31/2022	<0.005	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/13/2022 3:43 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	<0.005			
6/7/2016		<0.005			<0.005	<0.005	
7/27/2016		<0.005	<0.005	<0.005	<0.005		
7/28/2016						<0.005	
8/30/2016	<0.005						
9/16/2016		<0.005		<0.005			
9/19/2016			<0.005		<0.005	<0.005	
11/2/2016					<0.005		
11/3/2016		<0.005	<0.005	<0.005		<0.005	
11/14/2016	<0.005						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	<0.005						
3/1/2017			<0.005	<0.005			
3/2/2017		<0.005					
3/6/2017					<0.005	0.0017 (J)	
4/26/2017			<0.005	<0.005	<0.005	<0.005	
5/2/2017		<0.005					
5/8/2017	<0.005						
6/28/2017			<0.005	<0.005			
6/29/2017		<0.005			<0.005	<0.005	
7/11/2017	<0.005						
10/10/2017	0.0007 (J)						
10/11/2017							0.0009 (J)
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	0.00061 (J)			
3/29/2018					<0.005	0.0015 (J)	
4/2/2018	<0.005						
4/3/2018							<0.005
6/5/2018						0.0013 (J)	
6/6/2018					<0.005		
6/7/2018			0.00066 (J)				
6/11/2018		<0.005		<0.005			
6/28/2018							<0.005
8/7/2018							<0.005
9/19/2018	0.00072 (J)						
9/24/2018							<0.005
9/25/2018		<0.005	<0.005	<0.005	<0.005	0.0022 (J)	
3/5/2019		<0.005		<0.005	<0.005	0.0013 (J)	
3/6/2019			<0.005				
4/2/2019		<0.005				0.00096 (J)	
4/3/2019			<0.005	<0.005	<0.005		
8/20/2019	<0.005						
8/21/2019							0.00058 (J)
9/24/2019						0.0026 (J)	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/8/2019	<0.005						
10/9/2019							0.00063 (J)
2/11/2020		0.0022 (J)	0.0014 (J)	0.0026 (J)			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/13/2022 3:43 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.005	0.0025 (J)	0.00058 (J)
3/17/2020	<0.005						
3/24/2020		<0.005	<0.005	<0.005	<0.005	0.0013 (J)	
3/25/2020							0.0012 (J)
8/27/2020	<0.005						
9/22/2020	<0.005						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	0.0014 (J)	<0.005
2/9/2021			<0.005	<0.005	<0.005	0.001 (J)	
2/10/2021							<0.005
3/1/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005	<0.005		
3/4/2021						0.00078 (J)	<0.005
8/19/2021	<0.005						
8/26/2021				<0.005			<0.005
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						<0.005	
2/8/2022	0.0027 (J)						0.0034 (J)
2/9/2022		0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)	0.0036 (J)	
8/30/2022		<0.005	<0.005	<0.005		0.0022 (J)	
8/31/2022	<0.005				<0.005		0.0029 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/13/2022 3:43 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.005	0.00071 (J)	<0.005	
7/26/2016		<0.005	0.001 (J)	<0.005	
8/31/2016					<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<0.005
3/6/2017		<0.005			
3/7/2017			0.0012 (J)	<0.005	
5/1/2017		<0.005	<0.005		
5/2/2017				<0.005	
5/8/2017					<0.005
6/27/2017			0.0019 (J)	<0.005	
6/29/2017		<0.005			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017					<0.005
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	0.0006 (J)	<0.005	
4/3/2018	<0.005				
6/6/2018			0.0013 (J)		
6/7/2018		0.00059 (J)		<0.005	
6/28/2018	<0.005				
8/6/2018					<0.005
8/7/2018	<0.005				
9/24/2018	<0.005				
9/26/2018		<0.005	0.0014 (J)	<0.005	
2/25/2019					<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		<0.005	<0.005	<0.005	
6/12/2019					0.00038 (J)
8/19/2019					0.00095 (J)
8/21/2019	<0.005				
9/24/2019			0.00043 (J)	<0.005	
9/25/2019		<0.005			
10/8/2019					<0.005
10/9/2019	<0.005				
2/12/2020	0.0034 (J)	<0.005	0.0046 (J)	0.002 (J)	
3/17/2020					<0.005
3/24/2020	<0.005		0.00065 (J)	<0.005	
3/25/2020		<0.005			
8/26/2020					<0.005
9/22/2020		<0.005	0.001 (J)	<0.005	<0.005
9/24/2020	<0.005				
2/8/2021			<0.005	<0.005	
2/9/2021		<0.005			
2/10/2021	<0.005				
3/2/2021			<0.005	<0.005	<0.005
3/3/2021		<0.005			
3/4/2021	<0.005				
8/20/2021					<0.005
8/26/2021		<0.005	0.0016 (J)	<0.005	
9/3/2021	<0.005				
2/8/2022	0.003 (J)				0.0033 (J)
2/10/2022			0.004 (J)	0.0016 (J)	
2/11/2022		0.0014 (J)			
8/30/2022			0.0031 (J)	<0.005	0.0024 (J)
8/31/2022	<0.005	<0.005			

Time Series

Constituent: Barium (mg/L) Analysis Run 10/13/2022 3:43 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.008	0.012				0.0038
6/2/2016	0.0081				0.0064	0.01	
7/25/2016			0.0091 (J)		0.0071 (J)		0.0031 (J)
7/26/2016	0.0082 (J)	0.006 (J)				0.0088 (J)	
9/13/2016		0.0084 (J)	0.008 (J)				
9/14/2016				0.0037 (J)			0.0027 (J)
9/15/2016	0.0087 (J)					0.009 (J)	
9/19/2016					0.0069 (J)		
11/1/2016		0.0062 (J)			0.007 (J)	0.0079 (J)	0.0027 (J)
11/2/2016	0.0082 (J)						
11/4/2016			0.0067 (J)	0.0059 (J)			
12/15/2016				0.0056 (J)			
1/10/2017	0.0086 (J)						
1/11/2017		0.0069 (J)				0.0075 (J)	0.0036 (J)
1/16/2017			0.0096 (J)	0.0049 (J)	0.0071 (J)		
2/21/2017					0.0077 (J)		
3/1/2017							0.0036 (J)
3/2/2017		0.0071 (J)	0.0112			0.009 (J)	
3/3/2017				0.0046 (J)			
3/8/2017	0.0088 (J)						
4/26/2017	0.0085 (J)				0.0074 (J)	0.0078 (J)	0.0038 (J)
4/27/2017		0.0064 (J)	0.0106				
4/28/2017				0.0039 (J)			
5/26/2017				0.0034 (J)			
6/27/2017		0.0054 (J)	0.0092 (J)				
6/28/2017				0.003 (J)		0.0071 (J)	0.004 (J)
6/30/2017	0.0081 (J)				0.0076 (J)		
3/27/2018	<0.01		<0.01		<0.01		
3/28/2018				<0.01		<0.01	<0.01
3/29/2018		<0.01					
6/5/2018		0.0069 (J)					
6/6/2018			0.0082 (J)				
6/7/2018				0.0037 (J)		0.0068 (J)	
6/8/2018	0.007 (J)						0.0034 (J)
6/11/2018					0.007 (J)		
10/1/2018	0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)		0.0065 (J)	0.0034 (J)
10/2/2018					0.0069 (J)		
2/26/2019	0.0067 (J)				0.007 (J)		
2/27/2019		0.0074 (J)	0.008 (J)	0.0035 (J)		0.0059 (J)	0.0034 (J)
3/28/2019		0.0082 (J)	0.0082 (J)				
3/29/2019	0.0066 (J)			0.0039 (J)			
4/1/2019					0.0072 (J)	0.0064 (J)	0.003 (J)
9/24/2019		0.0072 (J)	0.0086 (J)	0.0038 (J)			
9/25/2019	0.0071 (J)				0.0066 (J)	0.0059 (J)	0.005 (J)
2/10/2020		0.0066 (J)	0.0091 (J)				
2/11/2020				0.0036 (J)			0.0031 (J)
2/12/2020	0.007 (J)				0.0073 (J)	0.0062 (J)	
3/18/2020	0.0076 (J)		0.0084 (J)				
3/19/2020		0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)	0.0029 (J)
9/23/2020		0.0068 (J)	0.0079 (J)	0.0039 (J)		0.0051 (J)	0.0039 (J)
9/24/2020					0.0062 (J)		
9/25/2020	0.0073 (J)						

Time Series

Constituent: Barium (mg/L) Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	0.0078 (J)			0.0032 (J)		0.0059 (J)	0.0029 (J)
2/11/2021					0.0077 (J)		
2/12/2021		0.0057 (J)	0.009 (J)				
3/1/2021					0.007		
3/2/2021	0.0076						
3/3/2021		0.0068	0.0094	0.0041 (J)		0.0064	0.0031 (J)
8/19/2021	0.0077	0.0065	0.0079		0.0071	0.0052	
8/27/2021				0.003 (J)			0.0039 (J)
2/9/2022		0.0067	0.0088	0.0029 (J)		0.0051	0.0031 (J)
2/10/2022	0.0088						
2/11/2022					0.0077		
8/30/2022		0.0066		0.003 (J)			
8/31/2022	0.0075		0.0074		0.0068	0.0048 (J)	0.003 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 10/13/2022 3:43 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	0.082
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	0.0781
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	0.0782
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	0.0712
11/8/2016					0.0886		
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			0.0689
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		0.0741
2/23/2017			0.0728				
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0725
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		0.0677
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
3/29/2018			0.062	0.097			0.055
3/30/2018	0.063	0.026			0.087	0.2	
6/11/2018							0.068
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
10/2/2018	0.066	0.026	0.062	0.1			0.067
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	0.067
4/1/2019			0.066	0.099	0.088		0.063
4/2/2019	0.065	0.027				0.2	
9/25/2019	0.063	0.026					0.061
9/26/2019			0.065	0.099	0.087	0.18	
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	0.053
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			0.057
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	0.21
3/2/2021		0.031					
3/3/2021	0.064		0.08	0.075	0.077	0.25	0.059
8/19/2021		0.023					
8/20/2021	0.063		0.083	0.082	0.079	0.24	0.057
2/8/2022				0.068	0.083	0.2	0.057
2/10/2022	0.063	0.027	0.079				
8/31/2022	0.057	0.024					
9/1/2022			0.076	0.049	0.068	0.2	0.057

Time Series

Constituent: Barium (mg/L) Analysis Run 10/13/2022 3:43 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.028	0.019			
6/7/2016		0.012			0.014	0.0058	
7/27/2016		0.0126	0.0294	0.0167	0.0141		
7/28/2016						0.0068 (J)	
8/30/2016	0.0413						
9/16/2016		0.0127		0.0168			
9/19/2016			0.0247		0.0155	0.0071 (J)	
11/2/2016					0.0157		
11/3/2016		0.0128	0.0248	0.0159		0.0092 (J)	
11/14/2016	0.0383						
1/11/2017		0.0142	0.0266	0.0162			
1/13/2017					0.0158	0.0105	
2/24/2017	0.0351						
3/1/2017			0.0275	0.0195			
3/2/2017		0.0155					
3/6/2017					0.0163	0.0105	
4/26/2017			0.024	0.0182	0.0177	0.011	
5/2/2017		0.0138					
5/8/2017	0.0251						
6/28/2017			0.0237	0.018			
6/29/2017		0.0128			0.017	0.0109	
7/11/2017	0.0233						
10/10/2017	0.0207						
10/11/2017							0.0092 (J)
11/20/2017							0.0081 (J)
1/11/2018							0.0077 (J)
2/20/2018							<0.01
3/28/2018		0.014	0.024	0.021			
3/29/2018					0.014	<0.01	
4/2/2018	0.022						
4/3/2018							<0.01
6/5/2018						0.011	
6/6/2018					0.015		
6/7/2018			0.023				
6/11/2018		0.013		0.019			
6/28/2018							0.0078 (J)
8/7/2018							0.0078 (J)
9/19/2018	0.023						
9/24/2018							0.0071 (J)
9/25/2018		0.014	0.023	0.019	0.015	0.011	
3/5/2019		0.015		0.02	0.016	0.011	
3/6/2019			0.024				
4/2/2019		0.016				0.011	
4/3/2019			0.025	0.017	0.018		
8/20/2019	0.024						
8/21/2019							0.015
9/24/2019						0.011	
9/25/2019		0.015			0.014		
9/26/2019			0.021	0.017			
10/8/2019	0.025						
10/9/2019							0.013
2/11/2020		0.015	0.022	0.019			

Time Series

Constituent: Barium (mg/L) Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					0.014	0.011	0.011
3/17/2020	0.035						
3/24/2020		0.015	0.021	0.017	0.015	0.011	
3/25/2020							0.014
8/27/2020	0.027						
9/22/2020	0.026						
9/23/2020		0.015	0.021	0.016			
9/24/2020					0.015	0.01	0.016
2/9/2021			0.023	0.017	0.015	0.011	
2/10/2021							0.027
3/1/2021	0.029						
3/3/2021		0.017	0.023	0.017	0.015		
3/4/2021						0.011	0.028
8/19/2021	0.029						
8/26/2021				0.015			0.038
8/27/2021		0.016	0.02		0.013		
9/1/2021						0.0099	
2/8/2022	0.03						0.041
2/9/2022		0.017	0.021	0.014	0.014	0.011	
8/30/2022		0.017	0.017	0.012		0.0085	
8/31/2022	0.029				0.011		0.035

Time Series

Constituent: Barium (mg/L) Analysis Run 10/13/2022 3:43 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		0.013	0.0084	0.019	
7/26/2016		0.0158	0.01	0.0179	
8/31/2016					0.0542
9/14/2016		0.0143	0.0085 (J)	0.0181	
11/2/2016		0.0148	0.0091 (J)		
11/4/2016				0.0165	
11/28/2016					0.0529
1/12/2017			0.0089 (J)	0.0199	
1/13/2017		0.0146			
2/22/2017					0.0607
3/6/2017		0.0141			
3/7/2017			0.009 (J)	0.0196	
5/1/2017		0.0149	0.0083 (J)		
5/2/2017				0.0202	
5/8/2017					0.065
6/27/2017			0.0074 (J)	0.0184	
6/29/2017		0.0154			
7/17/2017					0.06
10/12/2017	0.0328				
10/16/2017					0.0542
11/20/2017	0.0671				
1/10/2018	0.0656				
2/19/2018	0.0598				0.0533
3/29/2018		0.014	<0.01	0.021	
4/3/2018	0.045				
6/6/2018			0.008 (J)		
6/7/2018		0.014		0.019	
6/28/2018	0.047				
8/6/2018					0.044
8/7/2018	0.048				
9/24/2018	0.042				
9/26/2018		0.02	0.0075 (J)	0.019	
2/25/2019					0.045

Time Series

Constituent: Barium (mg/L) Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		0.016	0.0077 (J)	0.019	
4/3/2019		0.017	0.0087 (J)	0.023	
6/12/2019					0.063
8/19/2019					0.065
8/21/2019	0.035				
9/24/2019			0.0075 (J)	0.019	
9/25/2019		0.015			
10/8/2019					0.058
10/9/2019	0.036				
2/12/2020	0.035	0.012	0.0079 (J)	0.021	
3/17/2020					0.047
3/24/2020	0.033		0.0076 (J)	0.021	
3/25/2020		0.016			
8/26/2020					0.044
9/22/2020		0.013	0.0076 (J)	0.019	0.045
9/24/2020	0.028				
2/8/2021			0.0079 (J)	0.02	
2/9/2021		0.013			
2/10/2021	0.032				
3/2/2021			0.014	0.019	0.039
3/3/2021		0.014			
3/4/2021	0.032				
8/20/2021					0.036
8/26/2021		0.012	0.0092	0.019	
9/3/2021	0.035				
2/8/2022	0.039				0.037
2/10/2022			0.0084	0.02	
2/11/2022		0.013			
8/30/2022			0.0079	0.017	0.031
8/31/2022	0.035	0.013			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/13/2022 3:43 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0005	<0.0005				<0.0005
6/2/2016	<0.0005				<0.0005	<0.0005	
7/25/2016			<0.0005		<0.0005		<0.0005
7/26/2016	0.0002 (J)	<0.0005				<0.0005	
9/13/2016		<0.0005	<0.0005				
9/14/2016				<0.0005			<0.0005
9/15/2016	0.0002 (J)					<0.0005	
9/19/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	<0.0005
11/2/2016	0.0002 (J)						
11/4/2016			<0.0005	<0.0005			
12/15/2016				<0.0005			
1/10/2017	0.0002 (J)						
1/11/2017		<0.0005				<0.0005	<0.0005
1/16/2017			<0.0005	<0.0005	<0.0005		
2/21/2017					<0.0005		
3/1/2017							<0.0005
3/2/2017		<0.0005	<0.0005			<0.0005	
3/3/2017				<0.0005			
3/8/2017	0.0002 (J)						
4/26/2017	0.0002 (J)				<0.0005	<0.0005	<0.0005
4/27/2017		<0.0005	<0.0005				
4/28/2017				<0.0005			
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0005				
6/28/2017				<0.0005		<0.0005	<0.0005
6/30/2017	0.0002 (J)				<0.0005		
3/27/2018	<0.0005		<0.0005		<0.0005		
3/28/2018				<0.0005		<0.0005	<0.0005
3/29/2018		<0.0005					
2/26/2019	0.00016 (J)				7.2E-05 (J)		
2/27/2019		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005				
3/29/2019	0.00017 (J)			<0.0005			
4/1/2019					<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005	<0.0005	<0.0005			
9/25/2019	0.00018 (J)				<0.0005	<0.0005	<0.0005
2/10/2020		<0.0005	<0.0005				
2/11/2020				<0.0005			<0.0005
2/12/2020	0.00019 (J)				<0.0005	<0.0005	
3/18/2020	0.00021 (J)		<0.0005				
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005		<0.0005	5.9E-05 (J)
9/24/2020					<0.0005		
9/25/2020	0.00018 (J)						
2/10/2021	0.00019 (J)			<0.0005		<0.0005	<0.0005
2/11/2021					4.7E-05 (J)		
2/12/2021		<0.0005	<0.0005				
3/1/2021					<0.0005		
3/2/2021	0.00018 (J)						
3/3/2021		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2021	0.00022 (J)	<0.0005	<0.0005		<0.0005	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/13/2022 3:43 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
2/10/2022	0.00025 (J)						
2/11/2022					<0.0005		
8/30/2022		<0.0005		<0.0005			
8/31/2022	0.0002 (J)		<0.0005		<0.0005	<0.0005	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/13/2022 3:43 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					<0.0005	<0.0005	<0.0005
8/1/2016	<0.0005	0.0002 (J)	<0.0005	<0.0005			
8/2/2016					<0.0005	<0.0005	<0.0005
9/20/2016	<0.0005	0.0001 (J)	9E-05 (J)	<0.0005			
9/21/2016					<0.0005	<0.0005	<0.0005
11/7/2016	<0.0005	0.0001 (J)	0.0001 (J)	<0.0005		<0.0005	<0.0005
11/8/2016					<0.0005		
1/18/2017	<0.0005	0.0002 (J)	0.0002 (J)		<0.0005	<0.0005	
1/19/2017				<0.0005			<0.0005
2/21/2017	<0.0005	0.0002 (J)				<0.0005	
2/22/2017				<0.0005	<0.0005		<0.0005
2/23/2017			0.0002 (J)				
5/3/2017		0.0002 (J)					
5/5/2017					<0.0005	<0.0005	
5/8/2017	<0.0005		0.0002 (J)	<0.0005			<0.0005
6/30/2017			0.0002 (J)	<0.0005			
7/5/2017					<0.0005		<0.0005
7/7/2017						<0.0005	
7/10/2017	<0.0005	0.0002 (J)					
3/29/2018			<0.0005	<0.0005			<0.0005
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
2/27/2019	<0.0005	0.00018 (J)	0.00022 (J)	<0.0005	<0.0005	<0.0005	<0.0005
4/1/2019			0.00022 (J)	<0.0005	<0.0005		<0.0005
4/2/2019	<0.0005	0.00015 (J)				<0.0005	
9/25/2019	<0.0005	0.00011 (J)					<0.0005
9/26/2019			0.0002 (J)	<0.0005	<0.0005	<0.0005	
2/13/2020	<0.0005	0.00015 (J)	0.00021 (J)	<0.0005	<0.0005	<0.0005	<0.0005
3/19/2020		0.00012 (J)			<0.0005	<0.0005	
3/20/2020	<0.0005		0.00023 (J)	<0.0005			<0.0005
9/24/2020	<0.0005	8.5E-05 (J)	0.00019 (J)	<0.0005	<0.0005	<0.0005	<0.0005
2/10/2021	<0.0005	0.00013 (J)	0.00014 (J)	6.6E-05 (J)			
2/11/2021					<0.0005		
2/12/2021						<0.0005	<0.0005
3/2/2021		0.00016 (J)					
3/3/2021	<0.0005		0.00013 (J)	<0.0005	<0.0005	<0.0005	<0.0005
8/19/2021		8.2E-05 (J)					
8/20/2021	<0.0005		8.6E-05 (J)	0.00011 (J)	<0.0005	<0.0005	<0.0005
2/8/2022				<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005	9.3E-05 (J)	0.00013 (J)				
8/31/2022	<0.0005	7.4E-05 (J)					
9/1/2022			0.00012 (J)	<0.0005	<0.0005	<0.0005	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/13/2022 3:43 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0005	<0.0005			
6/7/2016		<0.0005			<0.0005	<0.0005	
7/27/2016		<0.0005	<0.0005	<0.0005	<0.0005		
7/28/2016						<0.0005	
8/30/2016	<0.0005						
9/16/2016		<0.0005		<0.0005			
9/19/2016			<0.0005		<0.0005	<0.0005	
11/2/2016					<0.0005		
11/3/2016		<0.0005	<0.0005	<0.0005		<0.0005	
11/14/2016	<0.0005						
1/11/2017		<0.0005	<0.0005	<0.0005			
1/13/2017					<0.0005	<0.0005	
2/24/2017	<0.0005						
3/1/2017			<0.0005	<0.0005			
3/2/2017		8E-05 (J)					
3/6/2017					<0.0005	<0.0005	
4/26/2017			<0.0005	<0.0005	<0.0005	<0.0005	
5/2/2017		<0.0005					
5/8/2017	7E-05 (J)						
6/28/2017			<0.0005	<0.0005			
6/29/2017		<0.0005			<0.0005	<0.0005	
7/11/2017	<0.0005						
10/10/2017	<0.0005						
10/11/2017							<0.0005
11/20/2017							<0.0005
1/11/2018							<0.0005
2/20/2018							<0.0005
3/28/2018		<0.0005	<0.0005	<0.0005			
3/29/2018					<0.0005	<0.0005	
4/2/2018	<0.0005						
4/3/2018							<0.0005
6/5/2018						<0.0005	
6/6/2018					8E-05 (J)		
6/7/2018			<0.0005				
6/11/2018		9E-05 (J)		5.7E-05 (J)			
6/28/2018							<0.0005
8/7/2018							<0.0005
9/19/2018	5.7E-05 (J)						
9/24/2018							<0.0005
9/25/2018		8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)	<0.0005	
3/5/2019		9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)	<0.0005	
3/6/2019			<0.0005				
4/2/2019		9E-05 (J)				<0.0005	
4/3/2019			<0.0005	7.5E-05 (J)	6.4E-05 (J)		
8/20/2019	<0.0005						
8/21/2019							<0.0005
9/24/2019						<0.0005	
9/25/2019		8.1E-05 (J)			<0.0005		
9/26/2019			<0.0005	8.4E-05 (J)			
10/9/2019							<0.0005
2/11/2020		7.8E-05 (J)	<0.0005	7.6E-05 (J)			
2/12/2020					7.8E-05 (J)	<0.0005	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/24/2020		8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)	<0.0005	
3/25/2020							<0.0005
8/27/2020	4.7E-05 (J)						
9/22/2020	<0.0005						
9/23/2020		8.1E-05 (J)	<0.0005	8.8E-05 (J)			
9/24/2020					8.3E-05 (J)	<0.0005	<0.0005
2/9/2021			<0.0005	9.8E-05 (J)	6.8E-05 (J)	<0.0005	
2/10/2021							5.1E-05 (J)
3/1/2021	5.5E-05 (J)						
3/3/2021		9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)		
3/4/2021						<0.0005	<0.0005
8/19/2021	<0.0005						
8/26/2021				9.3E-05 (J)			<0.0005
8/27/2021		0.0001 (J)	<0.0005		5.9E-05 (J)		
9/1/2021						<0.0005	
2/8/2022	5.6E-05 (J)						<0.0005
2/9/2022		0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)	<0.0005	
8/30/2022		0.0001 (J)	<0.0005	8.2E-05 (J)		<0.0005	
8/31/2022	<0.0005				<0.0005		<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.0005	<0.0005	<0.0005	
7/26/2016		<0.0005	<0.0005	<0.0005	
8/31/2016					<0.0005
9/14/2016		<0.0005	<0.0005	<0.0005	
11/2/2016		<0.0005	<0.0005		
11/4/2016				<0.0005	
11/28/2016					<0.0005
1/12/2017			<0.0005	<0.0005	
1/13/2017		<0.0005			
2/22/2017					<0.0005
3/6/2017		<0.0005			
3/7/2017			<0.0005	<0.0005	
5/1/2017		<0.0005	<0.0005		
5/2/2017				<0.0005	
5/8/2017					<0.0005
6/27/2017			<0.0005	<0.0005	
6/29/2017		<0.0005			
7/17/2017					<0.0005
10/12/2017	0.0002 (J)				
10/16/2017					<0.0005
11/20/2017	0.0003 (J)				
1/10/2018	0.0003 (J)				
2/19/2018	<0.0005				<0.0005
3/29/2018		<0.0005	<0.0005	<0.0005	
4/3/2018	<0.0005				
6/6/2018			<0.0005		
6/7/2018		<0.0005		<0.0005	
6/28/2018	0.00029 (J)				
8/6/2018					<0.0005
8/7/2018	0.00024 (J)				
9/24/2018	0.00019 (J)				
9/26/2018		<0.0005	<0.0005	<0.0005	
2/25/2019					<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.0005	<0.0005	<0.0005	
4/3/2019		<0.0005	<0.0005	<0.0005	
6/12/2019					<0.0005
8/19/2019					<0.0005
8/21/2019	0.0002 (J)				
9/24/2019			<0.0005	<0.0005	
9/25/2019		<0.0005			
10/8/2019					<0.0005
10/9/2019	0.0002 (J)				
2/12/2020	0.00018 (J)	<0.0005	<0.0005	<0.0005	
3/17/2020					<0.0005
3/24/2020	0.00022 (J)		<0.0005	<0.0005	
3/25/2020		<0.0005			
8/26/2020					<0.0005
9/22/2020		<0.0005	<0.0005	<0.0005	<0.0005
9/24/2020	0.0002 (J)				
2/8/2021			<0.0005	<0.0005	
2/9/2021		<0.0005			
2/10/2021	0.00021 (J)				
3/2/2021			<0.0005	<0.0005	<0.0005
3/3/2021		<0.0005			
3/4/2021	0.00021 (J)				
8/20/2021					<0.0005
8/26/2021		<0.0005	<0.0005	<0.0005	
9/3/2021	0.00024 (J)				
2/8/2022	0.00028 (J)				<0.0005
2/10/2022			<0.0005	<0.0005	
2/11/2022		<0.0005			
8/30/2022			<0.0005	<0.0005	<0.0005
8/31/2022	0.00025 (J)	<0.0005			

Time Series

Constituent: Boron (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.04	<0.04				<0.04
6/2/2016	<0.04				<0.04	<0.04	
7/25/2016			<0.04		<0.04		<0.04
7/26/2016	0.0177 (J)	0.0055 (J)				0.0097 (J)	
9/13/2016		<0.04	<0.04				
9/14/2016				<0.04			<0.04
9/15/2016	0.0214 (J)					0.0102 (J)	
9/19/2016					<0.04		
11/1/2016		0.0086 (J)			<0.04	<0.04	<0.04
11/2/2016	<0.04						
11/4/2016			<0.04	<0.04			
12/15/2016				0.0107 (J)			
1/10/2017	0.0198 (J)						
1/11/2017		0.0074 (J)				<0.04	<0.04
1/16/2017			<0.04	<0.04	<0.04		
2/21/2017					<0.04		
3/1/2017							<0.04
3/2/2017		0.008 (J)	<0.04			0.0084 (J)	
3/3/2017				<0.04			
3/8/2017	0.0189 (J)						
4/26/2017	0.0161 (J)				<0.04	<0.04	<0.04
4/27/2017		0.0066 (J)	<0.04				
4/28/2017				<0.04			
5/26/2017				<0.04			
6/27/2017		0.0087 (J)	0.006 (J)				
6/28/2017				<0.04		<0.04	<0.04
6/30/2017	0.0173 (J)				<0.04		
10/3/2017		0.0072 (J)	0.0071 (J)	<0.04			
10/4/2017					<0.04	<0.04	<0.04
10/5/2017	0.0173 (J)						
6/5/2018		0.0052 (J)					
6/6/2018			<0.04				
6/7/2018				<0.04		0.004 (J)	
6/8/2018	0.013 (J)						<0.04
6/11/2018					0.014 (J)		
10/1/2018	0.015 (J)	0.021 (J)	0.0049 (J)	<0.04		<0.04	<0.04
10/2/2018					<0.04		
3/28/2019		0.005 (J)	<0.04				
3/29/2019	0.014 (J)			0.0065 (J)			
4/1/2019					<0.04	<0.04	<0.04
9/24/2019		0.0064 (J)	0.0055 (J)	0.0076 (J)			
9/25/2019	0.018 (J)				<0.04	0.0054 (J)	<0.04
3/18/2020	0.02 (J)		0.0087 (J)				
3/19/2020		0.0085 (J)		0.0073 (J)	0.0052 (J)	0.0073 (J)	0.0053 (J)
9/23/2020		<0.04	<0.04	<0.04		0.012 (J)	0.0073 (J)
9/24/2020					0.0075 (J)		
9/25/2020	0.02 (J)						
3/1/2021					<0.04		
3/2/2021	0.017 (J)						
3/3/2021		<0.04	<0.04	<0.04		<0.04	<0.04
8/19/2021	0.018 (J)	<0.04	<0.04		<0.04	<0.04	
8/27/2021				<0.04			<0.04

Time Series

Constituent: Boron (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		<0.04	<0.04	<0.04		0.01 (J)	<0.04
2/10/2022	0.02 (J)						
2/11/2022					<0.04		
8/30/2022		<0.04		<0.04			
8/31/2022	0.015 (J)		<0.04		<0.04	<0.04	<0.04

Time Series

Constituent: Boron (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.97	0.62	2.2	1.3			
6/9/2016					2.2	2.3	0.88
8/1/2016	0.932	0.643	2	1.36			
8/2/2016					2.22	2.21	0.872
9/20/2016	1.04	0.644	2.02	1.69			
9/21/2016					2.65	2.54	0.853
11/7/2016	0.852	0.621	1.91	1.35		2.49	0.815
11/8/2016					2.44		
1/18/2017	0.972	0.607	1.69		1.88	2.04	
1/19/2017				1.15			0.803
2/21/2017	0.972	0.624				2.29	
2/22/2017				1.3	2.05		0.855
2/23/2017			1.76				
5/3/2017		0.676					
5/5/2017					3.01	3.41	
5/8/2017	1.05		2	1.51			0.884
6/30/2017			2.28	1.47			
7/5/2017					2.7		0.811
7/7/2017						3.01	
7/10/2017	0.855	0.58					
10/5/2017					2.53		0.851
10/6/2017				1.31			
10/9/2017			1.82			2.76	
10/10/2017	0.887	0.612					
6/11/2018							0.9
6/12/2018				1.6	2.8	2.9	
6/13/2018	0.86	0.67	2.2				
10/2/2018	0.93	0.62	1.9	1.4			0.81
10/3/2018					2.3	2.4	
4/1/2019			2.4	1.4	2.7		0.85
4/2/2019	0.9	0.63				2.9	
9/25/2019	0.86	0.63					0.73
9/26/2019			1.9	1.5	2.8	2.5	
3/19/2020		0.73			2.4	2.5	
3/20/2020	0.94		2.1	1.4			0.8
9/24/2020	0.76	0.74	2.3	1.3	2.1	2.6	0.84
3/2/2021		0.57					
3/3/2021	0.69		2	1.2	1.8	2.3	0.62
8/19/2021		0.71					
8/20/2021	0.72		2.5	1.2	2.3	2.5	0.66
2/8/2022				1.1	2.4	2.4	0.71
2/10/2022	0.79	0.79	2.5				
8/31/2022	0.64	0.7					
9/1/2022			2.3	1	1.8	2.2	0.71

Time Series

Constituent: Boron (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	0.0076 (J)						
9/23/2020		0.0066 (J)	0.021 (J)	0.006 (J)			
9/24/2020					0.0094 (J)	0.013 (J)	0.037 (J)
3/1/2021	0.013 (J)						
3/3/2021		0.01 (J)	<0.04	0.0094 (J)	<0.04		
3/4/2021						0.0079 (J)	0.033 (J)
8/19/2021	0.011 (J)						
8/26/2021				<0.04			0.095
8/27/2021		0.011 (J)	<0.04		<0.04		
9/1/2021						<0.04	
2/8/2022	0.015 (J)						0.13
2/9/2022		0.0098 (J)	<0.04	<0.04	<0.04	<0.04	
8/30/2022		0.013 (J)	<0.04	0.014 (J)		0.012 (J)	
8/31/2022	0.0091 (J)				<0.04		0.14

Time Series

Constituent: Boron (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.04	<0.04	<0.04	
7/26/2016		0.0047 (J)	0.0052 (J)	<0.04	
8/31/2016					0.0315 (J)
9/14/2016		<0.04	0.0071 (J)	0.01 (J)	
11/2/2016		<0.04	<0.04		
11/4/2016				<0.04	
11/28/2016					0.0095 (J)
1/12/2017			0.0076 (J)	<0.04	
1/13/2017		<0.04			
2/22/2017					<0.04
3/6/2017		<0.04			
3/7/2017			0.0089 (J)	<0.04	
5/1/2017		<0.04	0.0061 (J)		
5/2/2017				<0.04	
5/8/2017					0.0084 (J)
6/27/2017			0.0079 (J)	<0.04	
6/29/2017		<0.04			
7/17/2017					0.0092 (J)
10/3/2017			0.0094 (J)	<0.04	
10/5/2017		<0.04			
10/12/2017	0.0401				
10/16/2017					<0.04
11/20/2017	0.156				
1/10/2018	0.15				
2/19/2018	0.146				<0.04
4/3/2018	0.12				
6/6/2018			0.0098 (J)		
6/7/2018		0.0045 (J)		<0.04	
6/28/2018	0.16				
8/6/2018					<0.04
8/7/2018	0.12				
9/24/2018	0.099				
9/26/2018		0.005 (J)	0.01 (J)	0.0057 (J)	
2/25/2019					<0.04
3/26/2019	0.096				
4/3/2019		0.0055 (J)	0.0076 (J)	0.0044 (J)	
6/12/2019					<0.04
9/24/2019			0.01 (J)	0.0049 (J)	
9/25/2019		<0.04			
10/8/2019					<0.04
10/9/2019	0.079				
3/17/2020					0.0051 (J)
3/24/2020	0.088 (J)		0.011 (J)	0.0068 (J)	
3/25/2020		0.011 (J)			
9/22/2020		<0.04	0.0079 (J)	0.0053 (J)	0.0079 (J)
9/24/2020	0.087 (J)				
3/2/2021			0.0068 (J)	0.011 (J)	<0.04
3/3/2021		0.0056 (J)			
3/4/2021	0.078				
8/20/2021					<0.04
8/26/2021		<0.04	0.009 (J)	<0.04	
9/3/2021	0.077				

Time Series

Constituent: Boron (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	0.074				<0.04
2/10/2022			0.011 (J)	<0.04	
2/11/2022		<0.04			
8/30/2022			0.0098 (J)	<0.04	<0.04
8/31/2022	0.062	<0.04			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0005	<0.0005				<0.0005
6/2/2016	<0.0005				<0.0005	<0.0005	
7/25/2016			<0.0005		<0.0005		<0.0005
7/26/2016	<0.0005	<0.0005				<0.0005	
9/13/2016		<0.0005	<0.0005				
9/14/2016				<0.0005			<0.0005
9/15/2016	<0.0005					<0.0005	
9/19/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	<0.0005
11/2/2016	<0.0005						
11/4/2016			<0.0005	<0.0005			
12/15/2016				<0.0005			
1/10/2017	<0.0005						
1/11/2017		0.0002 (J)				0.0001 (J)	8E-05 (J)
1/16/2017			<0.0005	<0.0005	<0.0005		
2/21/2017					<0.0005		
3/1/2017							<0.0005
3/2/2017		<0.0005	<0.0005			<0.0005	
3/3/2017				<0.0005			
3/8/2017	7E-05 (J)						
4/26/2017	<0.0005				<0.0005	<0.0005	<0.0005
4/27/2017		<0.0005	<0.0005				
4/28/2017				<0.0005			
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0005				
6/28/2017				<0.0005		<0.0005	<0.0005
6/30/2017	<0.0005				<0.0005		
3/27/2018	<0.0005		<0.0005		<0.0005		
3/28/2018				<0.0005		<0.0005	<0.0005
3/29/2018		<0.0005					
2/26/2019	<0.0005				<0.0005		
2/27/2019		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005				
3/29/2019	<0.0005			<0.0005			
4/1/2019					<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005	<0.0005	<0.0005			
9/25/2019	<0.0005				<0.0005	<0.0005	<0.0005
2/10/2020		<0.0005	<0.0005				
2/11/2020				<0.0005			<0.0005
2/12/2020	<0.0005				<0.0005	<0.0005	
3/18/2020	<0.0005		<0.0005				
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
9/24/2020					<0.0005		
9/25/2020	<0.0005						
2/10/2021	<0.0005			<0.0005		<0.0005	<0.0005
2/11/2021					<0.0005		
2/12/2021		<0.0005	<0.0005				
3/1/2021					<0.0005		
3/2/2021	<0.0005						
3/3/2021		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2021	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005		<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		<0.0005		<0.0005	<0.0005	<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					0.00055 (J)	<0.0005	<0.0005
8/1/2016	<0.0005	<0.0005	<0.0005	<0.0005			
8/2/2016					0.0001 (J)	<0.0005	0.0001 (J)
9/20/2016	<0.0005	<0.0005	<0.0005	<0.0005			
9/21/2016					0.0001 (J)	<0.0005	0.0002 (J)
11/7/2016	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	0.0002 (J)
11/8/2016					9E-05 (J)		
1/18/2017	<0.0005	<0.0005	<0.0005		9E-05 (J)	<0.0005	
1/19/2017				<0.0005			0.0001 (J)
2/21/2017	<0.0005	<0.0005				<0.0005	
2/22/2017				<0.0005	0.0001 (J)		0.0001 (J)
2/23/2017			<0.0005				
5/3/2017		<0.0005					
5/5/2017					9E-05 (J)	<0.0005	
5/8/2017	<0.0005		<0.0005	<0.0005			0.0002 (J)
6/30/2017			<0.0005	<0.0005			
7/5/2017					0.0002 (J)		0.0002 (J)
7/7/2017						<0.0005	
7/10/2017	<0.0005	<0.0005					
3/29/2018			<0.0005	<0.0005			<0.0005
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
2/27/2019	<0.0005	<0.0005	<0.0005	<0.0005	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019			<0.0005	<0.0005	0.00043 (J)		0.00022 (J)
4/2/2019	<0.0005	<0.0005				<0.0005	
9/25/2019	<0.0005	<0.0005					0.00024 (J)
9/26/2019			<0.0005	<0.0005	<0.0005	<0.0005	
2/13/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020		<0.0005			0.00016 (J)	<0.0005	
3/20/2020	<0.0005		<0.0005	<0.0005			0.00022 (J)
9/24/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00027 (J)	<0.0005	0.00033 (J)
2/10/2021	<0.0005	<0.0005	<0.0005	<0.0005			
2/11/2021					0.00052 (J)		
2/12/2021						0.00048 (J)	<0.0005
3/2/2021		<0.0005					
3/3/2021	<0.0005		<0.0005	<0.0005	0.00014 (J)	<0.0005	0.00029 (J)
8/19/2021		<0.0005					
8/20/2021	<0.0005		<0.0005	<0.0005	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022				<0.0005	0.00033 (J)	<0.0005	0.00019 (J)
2/10/2022	<0.0005	<0.0005	<0.0005				
8/31/2022	<0.0005	<0.0005					
9/1/2022			<0.0005	<0.0005	0.00017 (J)	<0.0005	0.0002 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0005	<0.0005			
6/7/2016		<0.0005			<0.0005	<0.0005	
7/27/2016		<0.0005	<0.0005	<0.0005	<0.0005		
7/28/2016						<0.0005	
8/30/2016	0.0001 (J)						
9/16/2016		<0.0005		<0.0005			
9/19/2016			<0.0005		<0.0005	<0.0005	
11/2/2016					<0.0005		
11/3/2016		<0.0005	<0.0005	<0.0005		<0.0005	
11/14/2016	0.0001 (J)						
1/11/2017		0.0001 (J)	<0.0005	0.0001 (J)			
1/13/2017					<0.0005	<0.0005	
2/24/2017	9E-05 (J)						
3/1/2017			<0.0005	<0.0005			
3/2/2017		<0.0005					
3/6/2017					<0.0005	<0.0005	
4/26/2017			<0.0005	<0.0005	<0.0005	<0.0005	
5/2/2017		<0.0005					
5/8/2017	0.0001 (J)						
6/28/2017			<0.0005	<0.0005			
6/29/2017		<0.0005			<0.0005	<0.0005	
7/11/2017	<0.0005						
10/10/2017	<0.0005						
10/11/2017							<0.0005
11/20/2017							<0.0005
1/11/2018							<0.0005
2/20/2018							<0.0005
3/28/2018		<0.0005	<0.0005	<0.0005			
3/29/2018					<0.0005	<0.0005	
4/2/2018	<0.0005						
4/3/2018							<0.0005
6/5/2018						<0.0005	
6/6/2018					<0.0005		
6/7/2018			<0.0005				
6/11/2018		<0.0005		<0.0005			
6/28/2018							<0.0005
8/7/2018							<0.0005
9/19/2018	<0.0005						
9/24/2018							<0.0005
9/25/2018		<0.0005	<0.0005	<0.0005	<0.0005	9.6E-05 (J)	
3/5/2019		<0.0005		<0.0005	<0.0005	<0.0005	
3/6/2019			<0.0005				
4/2/2019		<0.0005				<0.0005	
4/3/2019			<0.0005	<0.0005	<0.0005		
8/20/2019	<0.0005						
8/21/2019							<0.0005
9/24/2019						<0.0005	
9/25/2019		<0.0005			<0.0005		
9/26/2019			<0.0005	<0.0005			
10/8/2019	<0.0005						
10/9/2019							<0.0005
2/11/2020		<0.0005	<0.0005	<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005						
3/24/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/25/2020							<0.0005
8/27/2020	<0.0005						
9/23/2020		<0.0005	<0.0005	<0.0005			
9/24/2020					<0.0005	<0.0005	<0.0005
2/9/2021			<0.0005	<0.0005	<0.0005	0.00041 (J)	
2/10/2021							0.00019 (J)
3/3/2021		<0.0005	<0.0005	<0.0005	<0.0005		
3/4/2021						<0.0005	0.0003 (J)
8/19/2021	<0.0005						
8/26/2021				<0.0005			0.00049 (J)
8/27/2021		<0.0005	<0.0005		<0.0005		
9/1/2021						<0.0005	
2/8/2022	<0.0005						0.00063
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/30/2022		<0.0005	<0.0005	<0.0005		<0.0005	
8/31/2022	<0.0005				<0.0005		0.00044 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.0005	<0.0005	<0.0005	
7/26/2016		<0.0005	<0.0005	<0.0005	
8/31/2016					<0.0005
9/14/2016		<0.0005	<0.0005	<0.0005	
11/2/2016		<0.0005	<0.0005		
11/4/2016				<0.0005	
11/28/2016					<0.0005
1/12/2017			<0.0005	9E-05 (J)	
1/13/2017		<0.0005			
2/22/2017					<0.0005
3/6/2017		<0.0005			
3/7/2017			<0.0005	<0.0005	
5/1/2017		<0.0005	<0.0005		
5/2/2017				<0.0005	
5/8/2017					<0.0005
6/27/2017			<0.0005	<0.0005	
6/29/2017		<0.0005			
7/17/2017					<0.0005
10/12/2017	<0.0005				
10/16/2017					<0.0005
11/20/2017	<0.0005				
1/10/2018	<0.0005				
2/19/2018	<0.0005				<0.0005
3/29/2018		<0.0005	<0.0005	<0.0005	
4/3/2018	<0.0005				
6/6/2018			<0.0005		
6/7/2018		<0.0005		<0.0005	
6/28/2018	<0.0005				
8/6/2018					<0.0005
8/7/2018	<0.0005				
9/24/2018	<0.0005				
9/26/2018		<0.0005	<0.0005	<0.0005	
2/25/2019					<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.0005	<0.0005	<0.0005	
4/3/2019		<0.0005	<0.0005	<0.0005	
6/12/2019					<0.0005
8/19/2019					<0.0005
8/21/2019	<0.0005				
9/24/2019			<0.0005	<0.0005	
9/25/2019		<0.0005			
10/8/2019					<0.0005
10/9/2019	<0.0005				
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	
3/17/2020					<0.0005
3/24/2020	<0.0005		<0.0005	<0.0005	
3/25/2020		<0.0005			
8/26/2020					<0.0005
9/22/2020		<0.0005	<0.0005	<0.0005	<0.0005
9/24/2020	<0.0005				
2/8/2021			<0.0005	<0.0005	
2/9/2021		<0.0005			
2/10/2021	<0.0005				
3/2/2021			<0.0005	<0.0005	<0.0005
3/3/2021		<0.0005			
3/4/2021	<0.0005				
8/20/2021					<0.0005
8/26/2021		<0.0005	<0.0005	<0.0005	
9/3/2021	<0.0005				
2/8/2022	<0.0005				<0.0005
2/10/2022			<0.0005	<0.0005	
2/11/2022		<0.0005			
8/30/2022			<0.0005	<0.0005	<0.0005
8/31/2022	<0.0005	<0.0005			

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		12	2.5				21
6/2/2016	1.3				1.3	28	
7/25/2016			2.16		1.17		20.3
7/26/2016	1.24	11				24.5	
9/13/2016		11.8	2.21				
9/14/2016				23.5			19.7
9/15/2016	1.17					27	
9/19/2016					1.05		
11/1/2016		11			1.14	25.6	18.4
11/2/2016	1.23						
11/4/2016			2.67	23.7			
12/15/2016				23.1			
1/10/2017	1.24						
1/11/2017		11.2				27.5	20.3
1/16/2017			2.45	23.3	1.23		
2/21/2017					1.25		
3/1/2017							18.6
3/2/2017		11	2.57			27.5	
3/3/2017				25.1			
3/8/2017	1.21						
4/26/2017	1.14				1.03	30.4	25.6
4/27/2017		11.1	2.38				
4/28/2017				30.7			
5/26/2017				26.2			
6/27/2017		13.8	2.36				
6/28/2017				26.1		29.8	23.9
6/30/2017	1.24				1.13		
10/3/2017		14	2.21	26.7			
10/4/2017					1.09	29.7	22.1
10/5/2017	1.11						
6/5/2018		15.2 (J)					
6/6/2018			2.3				
6/7/2018				25		29.1	
6/8/2018	1.1						21.9 (J)
6/11/2018					1.1		
10/1/2018	0.99	15.1	1.8	25		26.9	19.7
10/2/2018					1.1		
3/28/2019		13.3 (J)	2.2				
3/29/2019	1.1			23.5 (J)			
4/1/2019					1.3	30.1	20.4 (J)
9/24/2019		15.8	2.3	26.4			
9/25/2019	1.1				1.1	29.5	22.4
3/18/2020	1.1		2.1				
3/19/2020		15		27.4	1.2	31.5	21.9
9/23/2020		14.1	1.8	26.3		28.6	23.6
9/24/2020					1.1		
9/25/2020	1.3						
3/1/2021					1.2		
3/2/2021	1.2						
3/3/2021		14.1	1.8	25.6		29.8	20.6
8/19/2021	1.2	14.2	2		1.2	28.1	
8/27/2021				22.6			24.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		14.9	2.1	23.4		30.3	23.7
2/10/2022	1.3						
2/11/2022					1.5		
8/30/2022		14.9		25.4			
8/31/2022	1.3		1.9		1.3	28.7	23.5

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	15	13	25	44			
6/9/2016					36	26	12
8/1/2016	14.5	12.2	21.4	36.3			
8/2/2016					35.5	25.8	11.7
9/20/2016	15.3	12.2	26.3	39.5			
9/21/2016					33.2	24.9	11.1
11/7/2016	13.8	12.1	26.1	34.9		25.1	11.4
11/8/2016					33.8		
1/18/2017	15.1	11.5	25.6		33.4	26.1	
1/19/2017				37			12
2/21/2017	14.6	11.7				29	
2/22/2017				37.6	33.8		11.2
2/23/2017			28.2				
5/3/2017		11.9					
5/5/2017					33.5	28.1	
5/8/2017	15.2		27.2	35.7			11.2
6/30/2017			27.2	36.2			
7/5/2017					33.4		11.9
7/7/2017						28.6	
7/10/2017	17.4	12.7					
10/5/2017					36.4		12
10/6/2017				39.8			
10/9/2017			27.3			27.3	
10/10/2017	15.5	11.4					
6/11/2018							12.1
6/12/2018				36.2	33.4	26.4	
6/13/2018	15.5	12.5	29.4				
10/2/2018	14.7	12.4 (J)	29.2	39.1			11.7 (J)
10/3/2018					32.6	25.8	
4/1/2019			27.4	38	33.8		11.9 (J)
4/2/2019	16.1 (J)	11.9 (J)				25.7	
9/25/2019	15.6	11.6					10.7
9/26/2019			24.2	37.5	32	26.1	
3/19/2020		13			37.3	30.4	
3/20/2020	17.1		30.3	42.1			12.7
9/24/2020	16.9	11.3	27.9	38.6	34.3	30.8	12.4
3/2/2021		12.9					
3/3/2021	16.1		25.7	30.2	30.9	28.4	9.5
8/19/2021		11.5					
8/20/2021	17.2		25.7	29.9	33.1	27.8	10.2
2/8/2022				27.2	31.8	26.7	9.3
2/10/2022	16.4	11.6	27.4				
8/31/2022	16.4	10.8					
9/1/2022			28.2	21.3	26.3	33.1	11

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			6.2	1.4			
6/7/2016		2.2			2.3	3.7	
7/27/2016		2	4.73	1.19	2.08		
7/28/2016						3.15	
8/30/2016	20.9						
9/16/2016		1.97		1.5			
9/19/2016			4.76		1.97	3.17	
11/2/2016					2.13		
11/3/2016		1.99	5.25	1.31		3.4	
11/14/2016	18.6						
1/11/2017		2.28	4.74	1.25			
1/13/2017					2.45	4.98	
2/24/2017	16.1						
3/1/2017			5.37	1.26			
3/2/2017		2.15					
3/6/2017					2.48	6.28	
4/26/2017			4.28	1.05	2.3	6.65	
5/2/2017		1.95					
5/8/2017	14.6						
6/28/2017			4.95	1.06			
6/29/2017		2.02			2.54	6.04	
7/11/2017	14.3						
10/3/2017						8.28	
10/4/2017		2.03		1.1	2.25		
10/5/2017			5.28				
10/10/2017	12.1						
10/11/2017							2.74
11/20/2017							1.81
1/11/2018							1.54
2/20/2018							1.71
4/2/2018	<25						
4/3/2018							1.4
6/5/2018						9.1	
6/6/2018					2.3		
6/7/2018			4.8				
6/11/2018		2.1		1.4			
6/28/2018							1.4
8/7/2018							1.2
9/19/2018	11.1 (J)						
9/24/2018							1.1
9/25/2018		2.1	4.6	1	2.3	10.4 (J)	
3/27/2019	10.8 (J)						1.5
4/2/2019		2.5				8.8	
4/3/2019			5.3	1.2	2.9		
9/24/2019						7.7	
9/25/2019		2.6			2.4		
9/26/2019			4.9	1.1			
10/8/2019	9.7						
10/9/2019							2.4
3/17/2020	14.8						
3/24/2020		2.7	5.3	1	2.6	6	
3/25/2020							2.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	10.1						
9/23/2020		2.6	5.2	0.91 (J)			
9/24/2020					2.6	7.8	3.7
3/1/2021	10.3						
3/3/2021		2.5	5.2	0.96 (J)	2.4		
3/4/2021						8.7	8.2
8/19/2021	9.6						
8/26/2021				0.98 (J)			14.1
8/27/2021		2.7	5.1		2.4		
9/1/2021						9.5	
2/8/2022	9.4						15.2
2/9/2022		2.8	5.1	0.87 (J)	2.3	9.8	
8/30/2022		3	5.7	0.77 (J)		7.3	
8/31/2022	9.6				2.4		16.3

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		8.8	33	2.4	
7/26/2016		7.69	32.3	2.12	
8/31/2016					9.31
9/14/2016		8.49	31	2.18	
11/2/2016		7.83	30.9		
11/4/2016				2.17 (J)	
11/28/2016					9.47 (B)
1/12/2017			35.7	2.37	
1/13/2017		8.08			
2/22/2017					10.4
3/6/2017		8.64			
3/7/2017			32.7	2.34	
5/1/2017		13.4	37		
5/2/2017				2.17	
5/8/2017					14.2
6/27/2017			36.5	2.13	
6/29/2017		8.81			
7/17/2017					14.1
10/3/2017			30.9	2.15	
10/5/2017		9.29			
10/12/2017	2.9				
10/16/2017					13.6
11/20/2017	10.4				
1/10/2018	10.2				
2/19/2018	<25				<25
4/3/2018	6.3				
6/6/2018			26.2		
6/7/2018		8.2		2.3	
6/28/2018	6.7				
8/6/2018					11.4 (J)
8/7/2018	6.3				
9/24/2018	5.7				
9/26/2018		9.5 (J)	25.8	2.3	
2/25/2019					12.7 (J)
3/26/2019	5.6				
4/3/2019		8.4	24.7 (J)	2.8	
6/12/2019					18.9
9/24/2019			25.8	2.5	
9/25/2019		9.5			
10/8/2019					28.3
10/9/2019	4.9				
3/17/2020					24.3
3/24/2020	4.8		26.1	2.5	
3/25/2020		10.5			
9/22/2020		9.6	27.2	2.6	31
9/24/2020	4.4				
3/2/2021			1.6	2.6	34.2
3/3/2021		7.7			
3/4/2021	4.6				
8/20/2021					26.5
8/26/2021		7.6	25.2	2.5	
9/3/2021	5.6				

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	6				25.6
2/10/2022			24.8	2.5	
2/11/2022		7.5			
8/30/2022			24.8	2.5	23.5
8/31/2022	6.2	8.9			

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		1.3	1.6				1.3
6/2/2016	4.1				1.9	1.4	
7/25/2016			1.4		1.7		1.3
7/26/2016	4	1.2				1.6	
9/13/2016		1.1	1.3				
9/14/2016				1.1			1.3
9/15/2016	4.2					1.5	
9/19/2016					1.6		
11/1/2016		1.3			1.8	1.7	1.4
11/2/2016	4.9						
11/4/2016			1.6	1.4			
12/15/2016				2.9			
1/10/2017	4.1						
1/11/2017		1.1				1.2	1.1
1/16/2017			1.4	0.98	1.7		
2/21/2017					1.7		
3/1/2017							1.1
3/2/2017		1	1.3			1.2	
3/3/2017				1.1			
3/8/2017	4.2						
4/26/2017	4.1				1.7	1.2	1.1
4/27/2017		1	1.3				
4/28/2017				0.91			
5/26/2017				0.93			
6/27/2017		1.1	1.4				
6/28/2017				1		1.3	1.2
6/30/2017	3.7				1.8		
10/3/2017		1.1	1.7	1.2			
10/4/2017					1.8	1.5	1.2
10/5/2017	3.8						
6/5/2018		1.1					
6/6/2018			1.4				
6/7/2018				1		1.2	
6/8/2018	3.4						1.2
6/11/2018					2		
10/1/2018	3.8	1.1	1.4	1.1		1.5	1.2
10/2/2018					1.8		
3/28/2019		1.4	1.5				
3/29/2019	4.2			1.2			
4/1/2019					1.7	1.2	1.1
9/24/2019		1.1	1.3	0.95 (J)			
9/25/2019	4.8				1.6	1.1	1.1
3/18/2020	5.2		1.4				
3/19/2020		1.1		0.97 (J)	1.8	1.2	1.1
9/23/2020		0.99 (J)	1.2	0.88 (J)		1.1	1
9/24/2020					1.5		
9/25/2020	5.3						
3/1/2021					1.6		
3/2/2021	4.9						
3/3/2021		0.96 (J)	1.2	0.86 (J)		1.1	0.99 (J)
8/19/2021	5	1.1	1.3		1.6	1.1	
8/27/2021				0.99 (J)			1.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		1	1.3	1 (J)		1.1	1.1
2/10/2022	4.7						
2/11/2022					2.1		
8/30/2022		1.3		1.2			
8/31/2022	4.6		1.5		1.8	1.3	1.3

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	19	18	14	22			
6/9/2016					18	19	15
8/1/2016	17	16	13	21			
8/2/2016					18	18	14
9/20/2016	18	18	13	22			
9/21/2016					18	19	14
11/7/2016	17	16	14	24		20	14
11/8/2016					18		
1/18/2017	19	17	14		18	20	
1/19/2017				22			14
2/21/2017	18	16				19	
2/22/2017				21	18		13
2/23/2017			14				
5/3/2017		17					
5/5/2017					19	21	
5/8/2017	18		14	22			15
6/30/2017			14	21			
7/5/2017					18		14
7/7/2017						20	
7/10/2017	19	15					
10/5/2017					19		15
10/6/2017				21			
10/9/2017			14			20	
10/10/2017	19	15					
6/11/2018							13.6
6/12/2018				19.8	17.6	19.3	
6/13/2018	18.1	14.2	13.1				
10/2/2018	18.3	14	13.8	19.9			13.4
10/3/2018					17.7	20.2	
4/1/2019			14.2	19.7	17.2		13.1
4/2/2019	17.9	13.5				19.5	
9/25/2019	17.1	14.4					11.3
9/26/2019			14.3	19.6	17.3	19.5	
3/19/2020		15.4			16	18.1	
3/20/2020	17.7		13	17.7			11.3
9/24/2020	17.1	15.7	13.3	17	15.1	18	10.9
3/2/2021		13.2					
3/3/2021	16.6		13	4	14.6	18	6.7
8/19/2021		13.5					
8/20/2021	14.4		13.7	15.2	15.2	18.1	6.8
2/8/2022				13	15.2	18.3	5.5
2/10/2022	15.4	14	13.1				
8/31/2022	16.6	15					
9/1/2022			13.4	10.4	10.4	16.5	8.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			6.8	6.4			
6/7/2016		4.5			1.9	2.8	
7/27/2016		4.5	6.7	6.2	1.9		
7/28/2016						2.6	
8/30/2016	5.2						
9/16/2016		4.5		6.1			
9/19/2016			7		1.9	2.4	
11/2/2016					2.6		
11/3/2016		5.4	7.5	7.4		2.9	
11/14/2016	6.4						
1/11/2017		4.7	6.5	6.1			
1/13/2017					2.3	2.5	
2/24/2017	5.5						
3/1/2017			6.9	6			
3/2/2017		4.8					
3/6/2017					1.9	2.1	
4/26/2017			7	6.5	2	2.1	
5/2/2017		4.6					
5/8/2017	5.8						
6/28/2017			7	6.4			
6/29/2017		4.5			2.6	2.8	
7/11/2017	5.8						
10/3/2017						2.2	
10/4/2017		4.7		6.8	2.6		
10/5/2017			7				
10/10/2017	5.9						
10/11/2017							2.4
11/20/2017							1.8
1/11/2018							1.6
2/20/2018							2
4/2/2018	4.8						
4/3/2018							3.3
6/5/2018						1.7	
6/6/2018					2.7		
6/7/2018			6.8				
6/11/2018		4.9		6.8			
6/28/2018							2.1
8/7/2018							1.2
9/19/2018	4						
9/24/2018							1.3
9/25/2018		5.6	7.9	7.8	3.6	2.2	
3/27/2019	4.3						1.4
4/2/2019		4.8				2.5	
4/3/2019			6.9	6.3	3.1		
9/24/2019						3.1	
9/25/2019		5.7			2.8		
9/26/2019			7	7.1			
10/8/2019	4.4						
10/9/2019							2.1
3/17/2020	4.1						
3/24/2020		5	7	6.8	2.7	2.8	
3/25/2020							1.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	4.2						
9/23/2020		6.6	7.2	7.2			
9/24/2020					2.7	2	2.7
3/1/2021	3.7						
3/3/2021		7.1	7	7.2	2.7		
3/4/2021						1.8	4.9
8/19/2021	3.5						
8/26/2021				7.3			7.2
8/27/2021		8.5	7.4		2.8		
9/1/2021						1.8	
2/8/2022	3.2						7.4
2/9/2022		10.9	7.5	7	2.8	1.7	
8/30/2022		12	7.9	7		2.4	
8/31/2022	3.5				2.9		6.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		3.7	7.2	4.3	
7/26/2016		3.6	6.6	4.4	
8/31/2016					4
9/14/2016		3.4	6.6	3.8	
11/2/2016		4.5	7.6		
11/4/2016				4.8	
11/28/2016					4.2
1/12/2017			6.8	3.8	
1/13/2017		4.2			
2/22/2017					3.7
3/6/2017		3.6			
3/7/2017			6.8	4.5	
5/1/2017		4.3	7.2		
5/2/2017				4.6	
5/8/2017					4.2
6/27/2017			7	4.3	
6/29/2017		4.2			
7/17/2017					3.8
10/3/2017			6.5	4.2	
10/5/2017		4.7			
10/12/2017	3.8				
10/16/2017					4.2
11/20/2017	4.4				
1/10/2018	4.6				
2/19/2018	4.6				4.3
4/3/2018	5.9				
6/6/2018			4.7		
6/7/2018		4.4		4.5	
6/28/2018	5				
8/6/2018					3.8
8/7/2018	4.3				
9/24/2018	4.9				
9/26/2018		4.8	4.8	5.1	
2/25/2019					4.1
3/26/2019	4.4				
4/3/2019		4.3	4	4.2	
6/12/2019					4.7
9/24/2019			3.7	4.5	
9/25/2019		4.5			
10/8/2019					5.1
10/9/2019	5.1				
3/17/2020					4.8
3/24/2020	4.7		3.5	4.3	
3/25/2020		3.9			
9/22/2020		4.5	3.6	4.2	4.2
9/24/2020	5				
3/2/2021			3.2	4.3	4.1
3/3/2021		4.1			
3/4/2021	4.9				
8/20/2021					5.2
8/26/2021		4.4	3.4	4.3	
9/3/2021	5.5				

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	6.2				5.7
2/10/2022			3.2	4.4	
2/11/2022		4.1			
8/30/2022			3.5	4.4	6.3
8/31/2022	6.3	4.4			

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0035	<0.005				<0.005
6/2/2016	<0.005				<0.005	0.0013 (J)	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0009 (J)	0.0004 (J)			0.0006 (J)	
3/3/2017				0.0005 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				0.0016 (J)	<0.005	<0.005
4/27/2017		<0.005	<0.005				
4/28/2017				0.0004 (J)			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
2/26/2019	<0.005				<0.005		
2/27/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.0021 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.00072 (J)	0.0028 (J)	<0.005			
9/25/2019	<0.005				<0.005	0.0014 (J)	0.0019 (J)
2/10/2020		0.00042 (J)	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		0.00044 (J)				
3/19/2020		0.00084 (J)		0.00048 (J)	<0.005	<0.005	<0.005
9/23/2020		0.00062 (J)	0.00058 (J)	<0.005		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<0.005	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022					<0.005		
8/30/2022		0.0011 (J)		<0.005			
8/31/2022	<0.005		<0.005		<0.005	<0.005	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	0.003 (J)				<0.005	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.005
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/19/2021		0.0012 (J)					
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
8/31/2022	<0.005	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0012 (J)	<0.005			
6/7/2016		<0.005			<0.005	<0.005	
7/27/2016		0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)		
7/28/2016						<0.005	
8/30/2016	<0.005						
9/16/2016		<0.005		<0.005			
9/19/2016			<0.005		<0.005	<0.005	
11/2/2016					<0.005		
11/3/2016		<0.005	<0.005	<0.005		<0.005	
11/14/2016	0.0093 (J)						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	<0.005						
3/1/2017			0.0012 (J)	<0.005			
3/2/2017		0.001 (J)					
3/6/2017					<0.005	<0.005	
4/26/2017			0.0005 (J)	0.0003 (J)	0.0007 (J)	<0.005	
5/2/2017		0.0007 (J)					
5/8/2017	<0.005						
6/28/2017			0.0006 (J)	<0.005			
6/29/2017		0.0006 (J)			0.0005 (J)	<0.005	
7/11/2017	<0.005						
10/10/2017	<0.005						
10/11/2017							<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	<0.005			
3/29/2018					<0.005	<0.005	
4/2/2018	<0.005						
4/3/2018							<0.005
6/28/2018							<0.005
8/7/2018							<0.005
9/19/2018	<0.005						
9/24/2018							<0.005
3/5/2019		<0.005		<0.005	<0.005	<0.005	
3/6/2019			<0.005				
8/20/2019	<0.005						
8/21/2019							<0.005
10/9/2019							<0.005
2/11/2020		0.00087 (J)	0.001 (J)	0.00088 (J)			
2/12/2020					0.00045 (J)	<0.005	<0.005
3/24/2020		0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)	<0.005	
3/25/2020							<0.005
8/27/2020	<0.005						
9/22/2020	<0.005						
9/23/2020		0.00098 (J)	0.00092 (J)	0.0012 (J)			
9/24/2020					0.00076 (J)	<0.005	<0.005
2/9/2021			0.00083 (J)	0.0013 (J)	0.00056 (J)	<0.005	
2/10/2021							<0.005
3/1/2021	<0.005						
3/3/2021		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/4/2021						<0.005	<0.005
8/19/2021	<0.005						
8/26/2021				<0.005			<0.005
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						<0.005	
2/8/2022	<0.005						<0.005
2/9/2022		<0.005	<0.005	0.0014 (J)	<0.005	<0.005	
8/30/2022		<0.005	<0.005	0.0015 (J)		<0.005	
8/31/2022	<0.005				<0.005		<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.005	<0.005	<0.005	
7/26/2016		<0.005	<0.005	<0.005	
8/31/2016					<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<0.005
3/6/2017		<0.005			
3/7/2017			<0.005	<0.005	
5/1/2017		<0.005	0.0004 (J)		
5/2/2017				<0.005	
5/8/2017					<0.005
6/27/2017			<0.005	<0.005	
6/29/2017		<0.005			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017					<0.005
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<0.005	
4/3/2018	<0.005				
6/28/2018	<0.005				
8/6/2018					<0.005
8/7/2018	<0.005				
9/24/2018	<0.005				
2/25/2019					<0.005
3/4/2019		<0.005	<0.005	<0.005	
6/12/2019					<0.005
8/19/2019					<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	0.00053 (J)				
10/8/2019					<0.005
10/9/2019	0.0012 (J)				
2/12/2020	0.00065 (J)	<0.005	<0.005	0.00043 (J)	
3/17/2020					<0.005
3/24/2020	0.00055 (J)		<0.005	0.0014 (J)	
3/25/2020		0.00058 (J)			
8/26/2020					<0.005
9/22/2020		<0.005	0.0011 (J)	<0.005	<0.005
9/24/2020	<0.005				
2/8/2021			<0.005	<0.005	
2/9/2021		<0.005			
2/10/2021	<0.005				
3/2/2021			<0.005	<0.005	<0.005
3/3/2021		0.0013 (J)			
3/4/2021	<0.005				
8/20/2021					<0.005
8/26/2021		<0.005	<0.005	<0.005	
9/3/2021	<0.005				
2/8/2022	<0.005				<0.005
2/10/2022			<0.005	<0.005	
2/11/2022		<0.005			
8/30/2022			<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	0.00082 (J)				<0.005
6/2/2016	<0.005				0.035	<0.005	
7/25/2016			0.0008 (J)		0.0312		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	0.0009 (J)				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					0.0275		
11/1/2016		<0.005			0.0255	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			0.0025 (J)	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			0.0027 (J)	<0.005	0.0245		
2/21/2017					0.0272		
3/1/2017							<0.005
3/2/2017		<0.005	0.0022 (J)			<0.005	
3/3/2017				<0.005			
3/8/2017	<0.005						
4/26/2017	<0.005				0.0244	<0.005	<0.005
4/27/2017		<0.005	0.0018 (J)				
4/28/2017				<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	0.0023 (J)				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				0.0233		
3/27/2018	<0.005		<0.005		0.023		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
6/5/2018		<0.005					
6/6/2018			<0.005				
6/7/2018				<0.005		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					0.023		
10/1/2018	<0.005	<0.005	0.00059 (J)	<0.005		<0.005	<0.005
10/2/2018					0.022		
2/26/2019	<0.005				0.021		
2/27/2019		<0.005	0.00064 (J)	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.00091 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					0.022	<0.005	<0.005
9/24/2019		<0.005	0.0013 (J)	<0.005			
9/25/2019	<0.005				0.016	<0.005	<0.005
2/10/2020		<0.005	0.0016 (J)				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				0.014	<0.005	
3/18/2020	<0.005		0.00087 (J)				
3/19/2020		<0.005		<0.005	0.014	<0.005	<0.005
9/23/2020		<0.005	0.0013 (J)	<0.005		<0.005	<0.005
9/24/2020					0.0064		
9/25/2020	<0.005						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					0.0078		
2/12/2021		0.00086 (J)	0.0028 (J)				
3/1/2021					0.0061		
3/2/2021	<0.005						
3/3/2021		<0.005	0.003 (J)	<0.005		<0.005	<0.005
8/19/2021	<0.005	0.00055 (J)	0.0017 (J)		0.0052	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.00072 (J)	0.0023 (J)	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022					0.0038 (J)		
8/30/2022		<0.005		<0.005			
8/31/2022	<0.005		0.00085 (J)		0.004 (J)	<0.005	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016					0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	<0.005	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016					<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	<0.005	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016					<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	<0.005	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017				0.0024 (J)			<0.005
2/21/2017	<0.005	0.0022 (J)				0.0011 (J)	
2/22/2017				0.0023 (J)	<0.005		<0.005
2/23/2017			0.002 (J)				
5/3/2017		0.002 (J)					
5/5/2017					<0.005	0.0012 (J)	
5/8/2017	<0.005		0.0029 (J)	0.0023 (J)			<0.005
6/30/2017			0.0044 (J)	0.0022 (J)			
7/5/2017					<0.005		0.0003 (J)
7/7/2017						0.0012 (J)	
7/10/2017	<0.005	0.002 (J)					
3/29/2018			0.0495 (D)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
6/11/2018							<0.005
6/12/2018				0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	<0.005	0.0017 (J)	0.092				
10/2/2018	<0.005	0.002 (J)	0.078	0.0023 (J)			<0.005
10/3/2018					<0.005	0.0013 (J)	
2/27/2019	<0.005	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005
4/1/2019			0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	<0.005	0.0022 (J)				0.0011 (J)	
9/25/2019	<0.005	0.0033 (J)					<0.005
9/26/2019			0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	<0.005	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005
3/19/2020		0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020	<0.005		0.014	0.0022 (J)			<0.005
9/24/2020	<0.005	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005
2/10/2021	<0.005	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	0.00094 (J)
3/2/2021		0.0021 (J)					
3/3/2021	<0.005		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005
8/19/2021		0.0017 (J)					
8/20/2021	<0.005		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005
2/8/2022				0.0017 (J)	<0.005	0.00091 (J)	<0.005
2/10/2022	<0.005	0.0026 (J)	0.0051				
8/31/2022	<0.005	0.0026 (J)					
9/1/2022			0.0096	0.0015 (J)	<0.005	0.00071 (J)	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	0.00061 (J)			
6/7/2016		<0.005			<0.005	0.0056	
7/27/2016		<0.005	<0.005	0.0004 (J)	<0.005		
7/28/2016						0.0032 (J)	
8/30/2016	0.0073 (J)						
9/16/2016		<0.005		0.0008 (J)			
9/19/2016			<0.005		<0.005	0.0047 (J)	
11/2/2016					<0.005		
11/3/2016		<0.005	<0.005	<0.005		0.013	
11/14/2016	0.0115						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	0.011	
2/24/2017	0.0106						
3/1/2017			<0.005	<0.005			
3/2/2017		<0.005					
3/6/2017					<0.005	0.011	
4/26/2017			<0.005	<0.005	<0.005	0.009 (J)	
5/2/2017		<0.005					
5/8/2017	0.0099 (J)						
6/28/2017			<0.005	<0.005			
6/29/2017		<0.005			<0.005	0.0093 (J)	
7/11/2017	0.0096 (J)						
10/10/2017	0.0036 (J)						
10/11/2017							<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	<0.005			
3/29/2018					<0.005	<0.005	
4/2/2018	<0.005						
4/3/2018							<0.005
6/5/2018						0.0041 (J)	
6/6/2018					<0.005		
6/7/2018			<0.005				
6/11/2018		<0.005		<0.005			
6/28/2018							<0.005
8/7/2018							<0.005
9/19/2018	0.0036 (J)						
9/24/2018							<0.005
9/25/2018		<0.005	<0.005	<0.005	<0.005	0.0044 (J)	
3/5/2019		<0.005		<0.005	<0.005	0.0039 (J)	
3/6/2019			<0.005				
4/2/2019		<0.005				0.0039 (J)	
4/3/2019			<0.005	<0.005	<0.005		
8/20/2019	0.00092 (J)						
8/21/2019							0.00034 (J)
9/24/2019						0.0032 (J)	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/8/2019	0.0014 (J)						
10/9/2019							<0.005
2/11/2020		<0.005	<0.005	<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.005	0.0081	0.00034 (J)
3/17/2020	0.0017 (J)						
3/24/2020		<0.005	<0.005	<0.005	<0.005	0.0061	
3/25/2020							0.00034 (J)
8/27/2020	0.0011 (J)						
9/22/2020	0.00097 (J)						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	0.0079	0.00053 (J)
2/9/2021			<0.005	<0.005	<0.005	0.009	
2/10/2021							0.00098 (J)
3/1/2021	0.001 (J)						
3/3/2021		<0.005	<0.005	<0.005	<0.005		
3/4/2021						0.0065	0.00071 (J)
8/19/2021	0.00099 (J)						
8/26/2021				<0.005			0.0011 (J)
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						0.0068	
2/8/2022	0.0013 (J)						0.0012 (J)
2/9/2022		<0.005	<0.005	<0.005	<0.005	0.0078	
8/30/2022		<0.005	<0.005	<0.005		0.0066	
8/31/2022	0.00096 (J)				<0.005		0.00085 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		0.00082 (J)	<0.005	<0.005	
7/26/2016		0.0012 (J)	<0.005	<0.005	
8/31/2016					0.0053 (J)
9/14/2016		0.0006 (J)	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					0.0036 (J)
1/12/2017			<0.005	<0.005	
1/13/2017		0.0029 (J)			
2/22/2017					0.0049 (J)
3/6/2017		0.0006 (J)			
3/7/2017			<0.005	<0.005	
5/1/2017		<0.005	<0.005		
5/2/2017				<0.005	
5/8/2017					0.0059 (J)
6/27/2017			<0.005	<0.005	
6/29/2017		0.0005 (J)			
7/17/2017					0.0046 (J)
10/12/2017	<0.005				
10/16/2017					0.0034 (J)
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<0.005	
4/3/2018	<0.005				
6/6/2018			<0.005		
6/7/2018		0.00058 (J)		<0.005	
6/28/2018	<0.005				
8/6/2018					0.003 (J)
8/7/2018	<0.005				
9/24/2018	<0.005				
9/26/2018		<0.005	<0.005	<0.005	
2/25/2019					0.001 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		0.00083 (J)	<0.005	<0.005	
6/12/2019					0.003 (J)
8/19/2019					0.0035 (J)
8/21/2019	<0.005				
9/24/2019			<0.005	<0.005	
9/25/2019		<0.005			
10/8/2019					0.0039 (J)
10/9/2019	<0.005				
2/12/2020	<0.005	<0.005	0.00037 (J)	<0.005	
3/17/2020					0.003 (J)
3/24/2020	<0.005		0.00035 (J)	<0.005	
3/25/2020		0.00056 (J)			
8/26/2020					0.2 (O)
9/22/2020		<0.005	<0.005	<0.005	0.16 (O)
9/24/2020	<0.005				
2/8/2021			<0.005	<0.005	
2/9/2021		<0.005			
2/10/2021	<0.005				
3/2/2021			<0.005	<0.005	0.21 (O)
3/3/2021		<0.005			
3/4/2021	<0.005				
8/20/2021					0.074 (O)
8/26/2021		0.00042 (J)	<0.005	<0.005	
9/3/2021	<0.005				
2/8/2022	<0.005				0.072 (O)
2/10/2022			<0.005	<0.005	
2/11/2022		<0.005			
8/30/2022			<0.005	<0.005	0.075 (O)
8/31/2022	<0.005	<0.005			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.321 (U)	0.42				0.896
6/2/2016	0.329 (U)				0.0652 (U)	2.51	
7/25/2016			1.83		3.01		2.28
7/26/2016	1.51	0.707 (U)				3.82	
9/13/2016		1.22	0.841				
9/14/2016				0.98 (U)			0.821 (U)
9/15/2016	1.04 (U)					4.24	
9/19/2016					0.871 (U)		
11/1/2016		0.805 (U)			0.307 (U)	3.92	0.585 (U)
11/2/2016	0.496 (U)						
11/4/2016			0.166 (U)	0.277 (U)			
12/15/2016				0.071 (U)			
1/10/2017	0.376 (U)						
1/11/2017		0.705 (U)				2.52	1.22
1/16/2017			0	0.44 (U)	0.284 (U)		
2/21/2017					0.503 (U)		
3/1/2017							0.877 (U)
3/2/2017		0.251 (U)	0.504 (U)			3.13	
3/3/2017				0.448 (U)			
3/8/2017	0.0745 (U)						
4/26/2017	0.282 (U)				0.204 (U)	2.35	0.672 (U)
4/27/2017		1.08	0.593 (U)				
4/28/2017				0.548 (U)			
5/26/2017				0 (U)			
6/27/2017		1.02 (U)	0.657 (U)				
6/28/2017				0.608 (U)		2.6	1.07 (U)
6/30/2017	0.994				0.738 (U)		
3/27/2018	0.189 (U)		0.39 (U)		0.31 (U)		
3/28/2018				0.412 (U)		3	0.65 (U)
3/29/2018		0.503 (U)					
6/5/2018		0.771 (U)					
6/6/2018			2.8				
6/7/2018				0.73 (U)		2.79	
6/8/2018	0.218 (U)						1.89
6/11/2018					0.608 (U)		
10/1/2018	1.24	0.783 (U)	1.06 (U)	0.756 (U)		3.14	1.58
10/2/2018					0.97 (U)		
2/26/2019	0.202 (U)				0.524 (U)		
2/27/2019		1.21 (U)	0.637 (U)	0.635 (U)		3.79	3.67
3/28/2019		1.13 (U)	0.125 (U)				
3/29/2019	0 (U)			0.224 (U)			
4/1/2019					1.02 (U)	4.33	2.28
9/24/2019		1.22 (U)	0.949 (U)	0.429 (U)			
9/25/2019	0.707 (U)				1.02 (U)	4.2	1.6
2/10/2020		1.41	1.25 (U)				
2/11/2020				0.817 (U)		3.87	1.85
2/12/2020	1.07 (U)				0.301 (U)		
3/18/2020	0.207 (U)		0.458 (U)				
3/19/2020		1.1		0.715 (U)	1	3.96	2.2
9/23/2020		1.35 (U)	0.00884 (U)	0.565 (U)		4.14	1.14 (U)
9/24/2020					0.684 (U)		
9/25/2020	0.603 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	0.353 (U)			1.04 (U)		3.65	2.46
2/11/2021					0.678 (U)		
2/12/2021		0.366 (U)	0.458 (U)				
3/1/2021					0.412 (U)		
3/2/2021	0.71 (U)						
3/3/2021		0.492 (U)	0.105 (U)	0.459 (U)		3.58	2.03
8/19/2021	0.786 (U)	1.17 (U)	0.0732 (U)		0.234 (U)	3.53	
8/27/2021				0.409 (U)			1.34
2/9/2022		1.19	0.422 (U)	0.894 (U)		3.28	1.91
2/10/2022	0 (U)				0.268 (U)		
8/30/2022		0.827		0.699 (U)			
8/31/2022	0.421 (U)		0.49 (U)		0.506 (U)	2.12	1.33

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	0.523
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016					0.331 (U)	0.526 (U)	1.25
9/20/2016	0.565 (U)	0.555 (U)	3.12	1.27			
9/21/2016					0.335 (U)	0.176 (U)	1.21 (U)
11/7/2016	0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	1.16
11/8/2016					0.245 (U)		
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			0.933 (U)
2/21/2017	1.06 (U)	1.11 (U)				0.404 (U)	
2/22/2017				1.26 (U)	0.516 (U)		1.45 (U)
2/23/2017			4.73				
5/3/2017		0.654 (U)					
5/5/2017					0.713 (U)	0.868 (U)	
5/8/2017	0.291 (U)		3.87	0.789 (U)			0.21 (U)
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		0.62 (U)
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
3/29/2018			1.41	0.916 (U)			1.37
3/30/2018	0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
6/11/2018							1.27 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			0.442 (U)
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	0.902 (U)
4/1/2019			5	0.777 (U)	0.162 (U)		0.584 (U)
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
9/25/2019	1.01 (U)	1.18 (U)					1.03 (U)
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	0.806 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			1.42
9/24/2020	<1.88	<1.88	3.42	1.49	<1.88	<1.88	<1.88
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	0.826
3/2/2021		0.394 (U)					
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	0.955
8/19/2021		0.531 (U)					
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	0.314 (U)
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.104 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				
8/31/2022	0.179 (U)	0.602 (U)					
9/1/2022			2.93	0.147 (U)	0.602 (U)	0.127 (U)	0.445 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0804 (U)	0.301 (U)			
6/7/2016		0.158 (U)			0.0191 (U)	0.347	
7/27/2016		0.0354 (U)	0.206 (U)	0.196 (U)	0.541 (U)		
7/28/2016						0.815 (U)	
8/30/2016	1.09						
9/16/2016		1.04		0.915 (U)			
9/19/2016			1.58		0.826 (U)	0.862 (U)	
11/2/2016					0.791 (U)		
11/3/2016		0.314 (U)	0.342 (U)	0.928 (U)		0.797 (U)	
12/15/2016	1 (U)						
1/11/2017		0.34 (U)	0.365 (U)	0.502 (U)			
1/13/2017					0.296 (U)	0.72 (U)	
2/24/2017	0.504 (U)						
3/1/2017			0.395 (U)	0.202 (U)			
3/2/2017		0.746 (U)					
3/6/2017					0.518 (U)	0.518 (U)	
4/26/2017			0.507 (U)	0.264 (U)	0.282 (U)	1.13 (U)	
5/2/2017		0.111 (U)					
5/8/2017	0.455 (U)						
6/28/2017			0.892	0.636 (U)			
6/29/2017		0.576 (U)			1.12	0.841 (U)	
7/11/2017	0.471 (U)						
10/10/2017	0.649 (U)						
10/11/2017							0.586 (U)
11/20/2017							0.816 (U)
1/11/2018							0.841 (U)
2/20/2018							1.58
3/28/2018		0.438 (U)	0.92 (U)	0.56 (U)			
3/29/2018					1.73	1.91	
4/2/2018	0.512 (U)						
4/3/2018							0.385 (U)
6/5/2018						1.39	
6/6/2018					0.694 (U)		
6/7/2018			0.668 (U)				
6/11/2018		0.901 (U)		0.649 (U)			
6/28/2018							0.283 (U)
8/7/2018							0.332 (U)
9/19/2018	0.789 (U)						
9/24/2018							0.767 (U)
9/25/2018		0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)	1.62	
3/5/2019		0.272 (U)		0.474 (U)	0.84 (U)	0.985 (U)	
3/6/2019			0.714 (U)				
4/2/2019		0.847 (U)				1.42	
4/3/2019			0.385 (U)	0.429 (U)	1.01		
8/20/2019	2.44						
8/21/2019							1.01 (U)
9/24/2019						1.35	
9/25/2019		0.412 (U)			1.18 (U)		
9/26/2019			0.386 (U)	0.222 (U)			
10/8/2019	1.72						1.02 (U)
2/11/2020		0.461 (U)	1.48	0.597 (U)			
2/12/2020					1.11 (U)	1.61	0.45 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/17/2020	1.22 (U)						
3/24/2020		0.534 (U)	0.632 (U)	0.262 (U)	1.88	1.24 (U)	
3/25/2020							0.377 (U)
8/27/2020	1.26 (U)						
9/22/2020	1.06 (U)						
9/23/2020		0.466 (U)	0.887 (U)	0.43 (U)			
9/24/2020					0.611 (U)	1.8	0.568 (U)
2/9/2021		0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)	1.24	
2/10/2021							0.518 (U)
3/1/2021	1.2						
3/3/2021		0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)	1.2	
3/4/2021							0.636 (U)
8/19/2021	1.07 (U)						
8/26/2021				0.686 (U)			0.674 (U)
8/27/2021		0.9 (U)	0.761 (U)		0.779 (U)		
9/1/2021						1.86	
2/8/2022	0.4 (U)						0.834
2/9/2022		0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)	1.94	
8/30/2022		1.08	1.01	0.611 (U)		1.27	
8/31/2022	0.714 (U)				0.184 (U)		0.937

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		0.721	5.11	0.614	
7/26/2016		1.26	6.92	1.47	
8/31/2016					1.2
9/14/2016		0.901 (U)	3.96	1.27	
11/2/2016		1.09 (U)	4.53		
11/4/2016				0.434 (U)	
11/28/2016					0.264 (U)
1/12/2017			4.43	0.202 (U)	
1/13/2017		1.19			
2/22/2017					1.06 (U)
3/6/2017		0.669 (U)			
3/7/2017			4.8	0.0674 (U)	
5/1/2017		0.803 (U)	4.16		
5/2/2017				0.444 (U)	
5/8/2017					0.187 (U)
6/27/2017			2.8	0.77 (U)	
6/29/2017		1.35			
7/17/2017					1.42
10/12/2017	1.49				
10/16/2017					1.17
11/20/2017	0.918 (U)				
1/10/2018	1.05				
2/19/2018	2.05				1.58 (D)
3/29/2018		0.703 (U)	3.42	0.648 (U)	
4/3/2018	0.68 (U)				
6/6/2018			3.99		
6/7/2018		0.628 (U)		0.745 (U)	
6/28/2018	1.28				
8/6/2018					0.196 (U)
8/7/2018	1.16				
9/24/2018	0.965 (U)				
9/26/2018		0.756 (U)	2.73	0.377 (U)	
3/4/2019		1.21 (U)	4.43	1 (U)	
4/3/2019		1.07 (U)	4.79	0.43 (U)	
8/19/2019					1.39
8/21/2019	1.24 (U)				
9/24/2019			4.06	0.699 (U)	
9/25/2019		1.86			
10/8/2019	0.866 (U)				1.32 (U)
2/12/2020	1.83	1.25	4.02	0.913 (U)	
3/17/2020					1 (U)
3/24/2020	1.27 (U)		3.52		
3/25/2020		0.766 (U)			
8/26/2020					1.75
9/22/2020		0.795 (U)	2.98	0.428 (U)	0.688 (U)
9/24/2020	0.634 (U)				
2/8/2021			2.89	0.613 (U)	
2/9/2021		0.626 (U)			
2/10/2021	0.783 (U)				
3/2/2021			1.67	0.579 (U)	0.948 (U)
3/3/2021		1			
3/4/2021	0.818 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/20/2021					0.528 (U)
8/26/2021		1.17 (U)	4.68	0.798 (U)	
9/3/2021	0.971 (U)				
2/8/2022	0.534 (U)				0.462 (U)
2/10/2022			3.33	0.375 (U)	
2/11/2022		0.996			
8/30/2022			5.34	0.72 (U)	1.52
8/31/2022	0.513 (U)	0.962			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.12 (J)	<0.1				0.15 (J)
6/2/2016	<0.1				<0.1	0.62	
7/25/2016			0.06 (J)		0.06 (J)		0.14 (J)
7/26/2016	0.02 (J)	0.08 (J)				0.49	
9/13/2016		0.11 (J)	<0.1				
9/14/2016				0.08 (J)			0.18 (J)
9/15/2016	<0.1					0.54	
9/19/2016					<0.1		
11/1/2016		<0.1			<0.1	0.68	<0.1
11/2/2016	<0.1						
11/4/2016			<0.1	<0.1			
12/15/2016				0.06 (J)			
1/10/2017	<0.1						
1/11/2017		0.05 (J)				0.49	0.09 (J)
1/16/2017			<0.1	0.1 (J)	<0.1		
2/21/2017					<0.1		
3/1/2017							<0.1
3/2/2017		<0.1	<0.1			0.48	
3/3/2017				<0.1			
3/8/2017	<0.1						
4/26/2017	<0.1				<0.1	0.48	0.08 (J)
4/27/2017		0.04 (J)	0.01 (J)				
4/28/2017				0.06 (J)			
5/26/2017				0.09 (J)			
6/27/2017		<0.1	<0.1				
6/28/2017				0.11 (J)		0.47	0.12 (J)
6/30/2017	<0.1				<0.1		
10/3/2017		<0.1	<0.1	<0.1			
10/4/2017					<0.1	<0.1	<0.1
10/5/2017	<0.1						
3/27/2018	<0.1		<0.1		<0.1		
3/28/2018				0.31		0.56	<0.1
3/29/2018		<0.1					
6/5/2018		0.055 (J)					
6/6/2018			<0.1				
6/7/2018				0.11 (J)		0.48	
6/8/2018	<0.1						0.2 (J)
6/11/2018					<0.1		
10/1/2018	<0.1	<0.1	<0.1	<0.1		0.44	<0.1
10/2/2018					<0.1		
2/26/2019	<0.1				<0.1		
2/27/2019		0.052 (J)	<0.1	0.12 (J)		0.53	0.13 (J)
3/28/2019		0.036 (J)	<0.1				
3/29/2019	<0.1			0.13 (J)			
4/1/2019					<0.1	0.45	0.1 (J)
9/24/2019		0.063 (J)	<0.1	0.081 (J)			
9/25/2019	<0.1				<0.1	0.46	0.1 (J)
2/10/2020		0.061 (J)	<0.1				
2/11/2020				0.075 (J)			0.094 (J)
2/12/2020	<0.1				<0.1	0.4	
3/18/2020	<0.1		<0.1				
3/19/2020		0.064 (J)		0.093 (J)	<0.1	0.51	0.11 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		0.058 (J)	<0.1	0.08 (J)		0.47	0.098 (J)
9/24/2020					<0.1		
9/25/2020	<0.1						
2/10/2021	<0.1			0.094 (J)		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						
3/3/2021		0.078 (J)	<0.1	0.085 (J)		0.44	0.1
8/19/2021	<0.1	0.074 (J)	<0.1		<0.1	0.47	
8/27/2021				0.12			0.12
2/9/2022		0.057 (J)	<0.1	0.094 (J)		0.43	0.097 (J)
2/10/2022	<0.1						
2/11/2022					<0.1		
8/30/2022		0.093 (J)		0.12			
8/31/2022	0.053 (J)		0.065 (J)		0.06 (J)	0.42	0.13

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	0.085 (J)
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.1	0.32			
9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	<0.1 (*)	0.44	<0.1 (*)	<0.1 (*)		0.27 (J)	<0.1 (*)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	<0.1 (*)	<0.1 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			<0.1 (*)
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.1 (*)		<0.1 (*)
2/23/2017			<0.1 (*)				
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.06 (J)
6/30/2017			<0.1 (*)	0.2 (J)			
7/5/2017					0.11 (J)		0.08 (J)
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
10/5/2017					<0.1 (*)		<0.1 (*)
10/6/2017				<0.1 (*)			
10/9/2017			<0.1 (*)			<0.1 (*)	
10/10/2017	<0.1	<0.1					
3/29/2018			<0.1	0.49			<0.1
3/30/2018	<0.1	0.35			<0.1	<0.1	
6/11/2018							<0.1
6/12/2018				0.037 (J)	<0.1	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.1				
10/2/2018	<0.1	<0.1	<0.1	<0.1			<0.1
10/3/2018					<0.1	0.31	
2/27/2019	<0.1	<0.1	<0.1	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		0.059 (J)
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
9/25/2019	0.064 (J)	<0.1					0.054 (J)
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.1	<0.1	<0.1	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.1	0.097 (J)			0.057 (J)
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	0.17
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
8/19/2021		<0.1					
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	0.069 (J)
2/8/2022				0.087 (J)	0.063 (J)	0.14	0.053 (J)
2/10/2022	<0.1	<0.1	0.059 (J)				
8/31/2022	0.082 (J)	0.076 (J)					
9/1/2022			0.1	0.12	0.11	0.16	0.091 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.1	<0.1			
6/7/2016		<0.1			<0.1	<0.1	
7/27/2016		<0.1	<0.1	<0.1	<0.1		
7/28/2016						0.02 (J)	
8/30/2016	0.09 (J)						
9/16/2016		<0.1		<0.1			
9/19/2016			<0.1		<0.1	0.02 (J)	
11/2/2016					<0.1		
11/3/2016		<0.1	<0.1	<0.1		<0.1	
11/14/2016	0.18 (J)						
1/11/2017		<0.1	<0.1	<0.1			
1/13/2017					<0.1	<0.1	
2/24/2017	0.05 (J)						
3/1/2017			<0.1	<0.1			
3/2/2017		<0.1					
3/6/2017					<0.1	<0.1	
4/26/2017			<0.1	<0.1	<0.1	0.04 (J)	
5/2/2017		<0.1					
5/8/2017	0.03 (J)						
6/28/2017			<0.1	<0.1			
6/29/2017		<0.1			<0.1	<0.1	
7/11/2017	0.07 (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						
10/11/2017							<0.1
11/20/2017							<0.1
1/11/2018							<0.1
2/20/2018							0.23
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
6/5/2018						0.13 (J)	
6/6/2018					<0.1		
6/7/2018			<0.1				
6/11/2018		<0.1		<0.1			
6/28/2018							<0.1
8/7/2018							0.048 (J)
9/19/2018	<0.1						
9/24/2018							<0.1
9/25/2018		<0.1	<0.1	<0.1	<0.1	0 (J)	
3/5/2019		<0.1		<0.1	<0.1	0.32	
3/6/2019			<0.1				
3/27/2019	0.081 (J)						<0.1
4/2/2019		<0.1				0.12 (J)	
4/3/2019			<0.1	<0.1	<0.1		
8/20/2019	<0.1						
8/21/2019							<0.1
9/24/2019						0.15 (J)	
9/25/2019		<0.1			<0.1		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/26/2019			<0.1	<0.1			
10/8/2019	0.034 (J)						
10/9/2019							<0.1
2/11/2020		<0.1	<0.1	<0.1			
2/12/2020					<0.1	0.1 (J)	<0.1
3/17/2020	<0.1						
3/24/2020		<0.1	<0.1	<0.1	<0.1	0.081 (J)	
3/25/2020							<0.1
8/27/2020	<0.1						
9/22/2020	<0.1						
9/23/2020		<0.1	<0.1	<0.1			
9/24/2020					<0.1	0.079 (J)	<0.1
2/9/2021			<0.1	<0.1	<0.1	0.092 (J)	
2/10/2021							<0.1
3/1/2021	<0.1						
3/3/2021		<0.1	<0.1	<0.1	<0.1		
3/4/2021						0.091 (J)	<0.1
8/19/2021	<0.1						
8/26/2021				<0.1			0.063 (J)
8/27/2021		<0.1	<0.1		<0.1		
9/1/2021						0.11	
2/8/2022	<0.1						0.052 (J)
2/9/2022		<0.1	<0.1	<0.1	<0.1	0.1	
8/30/2022		<0.1	<0.1	<0.1		0.1	
8/31/2022	0.065 (J)				<0.1		0.065 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.1	0.11 (J)	<0.1	
7/26/2016		<0.1	0.05 (J)	<0.1	
8/31/2016					0.14 (J)
9/14/2016		<0.1	0.04 (J)	<0.1	
11/2/2016		<0.1	<0.1		
11/4/2016				<0.1	
11/28/2016					0.12 (J)
1/12/2017			0.04 (J)	<0.1	
1/13/2017		<0.1			
2/22/2017					0.09 (J)
3/6/2017		<0.1			
3/7/2017			<0.1	<0.1	
5/1/2017		<0.1	<0.1		
5/2/2017				<0.1	
5/8/2017					0.05 (J)
6/27/2017			<0.1	<0.1	
6/29/2017		<0.1			
7/17/2017					0.14 (J)
10/3/2017			<0.1	<0.1	
10/5/2017		<0.1			
10/12/2017	<0.1				
10/16/2017					0.12 (J)
11/20/2017	<0.1				
1/10/2018	<0.1				
2/19/2018	<0.1				0.17
3/29/2018		<0.1	<0.1	<0.1	
4/3/2018	<0.1				
6/6/2018			0.15 (J)		
6/7/2018		<0.1		<0.1	
6/28/2018	<0.1				
8/6/2018					0.087 (J)
8/7/2018	<0.1				
9/24/2018	<0.1				
9/26/2018		<0.1	<0.1	<0.1	
2/25/2019					0.14 (J)
3/4/2019		<0.1	0.19 (J)	<0.1	
3/26/2019	<0.1				
4/3/2019		<0.1	0.047 (J)	<0.1	
6/12/2019					0.12 (J)
8/19/2019					<0.1
8/21/2019	<0.1				
9/24/2019			0.05 (J)	<0.1	
9/25/2019		<0.1			
10/8/2019					0.052 (J)
10/9/2019	<0.1				
2/12/2020	<0.1	<0.1	<0.1	<0.1	
3/17/2020					0.053 (J)
3/24/2020	<0.1		<0.1	<0.1	
3/25/2020		<0.1			
8/26/2020					0.068 (J)
9/22/2020		<0.1	0.056 (J)	<0.1	0.058 (J)
9/24/2020	<0.1				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2021			0.055 (J)	<0.1	
2/9/2021		<0.1			
2/10/2021	<0.1				
3/2/2021			<0.1	<0.1	0.073 (J)
3/3/2021		<0.1			
3/4/2021	<0.1				
8/20/2021					0.06 (J)
8/26/2021		<0.1	0.061 (J)	<0.1	
9/3/2021	<0.1				
2/8/2022	<0.1				0.064 (J)
2/10/2022			0.055 (J)	<0.1	
2/11/2022		<0.1			
8/30/2022			0.085 (J)	<0.1	0.086 (J)
8/31/2022	0.05 (J)	0.061 (J)			

Time Series

Constituent: Lead (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.00056 (J)	<0.001				<0.001
6/2/2016	<0.001				<0.001	0.00056 (J)	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		0.0001 (J)	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					0.0002 (J)	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		0.0001 (J)	<0.001			0.0002 (J)	
3/3/2017				<0.001			
3/8/2017	0.0001 (J)						
4/26/2017	<0.001				<0.001	<0.001	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		4.9E-05 (J)	<0.001				
2/11/2020				<0.001			<0.001
2/12/2020	<0.001				<0.001	<0.001	
3/18/2020	<0.001		<0.001				
3/19/2020		0.00012 (J)		<0.001	<0.001	0.00017 (J)	<0.001
9/23/2020		<0.001	0.00021 (J)	0.0011 (J)		<0.001	0.00015 (J)
9/24/2020					<0.001		
9/25/2020	<0.001						
2/10/2021	4.8E-05 (J)			0.00015 (J)		<0.001	<0.001
2/11/2021					4.6E-05 (J)		
2/12/2021		4.4E-05 (J)	0.00038 (J)				
3/1/2021					<0.001		
3/2/2021	<0.001						
3/3/2021		5.6E-05 (J)	<0.001	<0.001		<0.001	<0.001
8/19/2021	<0.001	<0.001	<0.001		<0.001	<0.001	
8/27/2021				<0.001			<0.001
2/9/2022		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2022	<0.001						
2/11/2022					<0.001		
8/30/2022		<0.001		<0.001			

Time Series

Constituent: Lead (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/31/2022	<0.001		<0.001		<0.001	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001	<0.001 (*)			
6/9/2016					<0.001	<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001	<0.001			
8/2/2016					<0.001	<0.001	<0.001
9/20/2016	<0.001	<0.001	<0.001	0.0002 (J)			
9/21/2016					<0.001	<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
11/8/2016					<0.001		
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			<0.001
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		<0.001
2/23/2017			<0.001				
5/3/2017		<0.001 (*)					
5/5/2017					<0.001	<0.001 (*)	
5/8/2017	<0.001		<0.001	<0.001			<0.001
6/30/2017			<0.001	<0.001			
7/5/2017					<0.001		<0.001
7/7/2017						7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)					
3/29/2018			<0.001	<0.001			<0.001
3/30/2018	<0.001	<0.001			<0.001	<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	<0.001	<0.001	6.2E-05 (J)	<0.001	5.4E-05 (J)	<0.001
3/19/2020		0.0001 (J)			<0.001	7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		<0.001	8.5E-05 (J)			<0.001
9/24/2020	<0.001	6.4E-05 (J)	<0.001	0.00037 (J)	<0.001	6.3E-05 (J)	9.5E-05 (J)
2/10/2021	5.1E-05 (J)	5E-05 (J)	<0.001	0.00072 (J)			
2/11/2021					<0.001		
2/12/2021						5.2E-05 (J)	6.6E-05 (J)
3/2/2021		5.6E-05 (J)					
3/3/2021	<0.001		<0.001	<0.001	<0.001	<0.001	0.00016 (J)
8/19/2021		<0.001					
8/20/2021	<0.001		<0.001	0.00096 (J)	<0.001	<0.001	<0.001
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				
8/31/2022	<0.001	<0.001					
9/1/2022			<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.001	<0.001			
6/7/2016		<0.001			<0.001	<0.001	
7/27/2016		<0.001	<0.001	<0.001	<0.001		
7/28/2016						<0.001	
8/30/2016	<0.001						
9/16/2016		<0.001		<0.001			
9/19/2016			<0.001		<0.001	<0.001	
11/2/2016					0.0013 (J)		
11/3/2016		<0.001	<0.001	<0.001		<0.001	
11/14/2016	<0.001						
1/11/2017		<0.001	<0.001	<0.001			
1/13/2017					<0.001	<0.001	
2/24/2017	<0.001						
3/1/2017			<0.001	<0.001			
3/2/2017		8E-05 (J)					
3/6/2017					<0.001	<0.001	
4/26/2017			<0.001	<0.001	<0.001	<0.001	
5/2/2017		<0.001					
5/8/2017	<0.001						
6/28/2017			<0.001	0.0001 (J)			
6/29/2017		8E-05 (J)			<0.001	<0.001	
7/11/2017	<0.001						
10/10/2017	<0.001						
10/11/2017							0.0001 (J)
11/20/2017							<0.001
1/11/2018							0.0002 (J)
2/20/2018							<0.001
3/28/2018		<0.001	<0.001	<0.001			
3/29/2018					<0.001	<0.001	
4/2/2018	<0.001						
4/3/2018							<0.001
6/28/2018							<0.001
8/7/2018							<0.001
9/19/2018	<0.001						
9/24/2018							<0.001
3/5/2019		<0.001		<0.001	<0.001	<0.001	
3/6/2019			<0.001				
4/2/2019		<0.001				<0.001	
4/3/2019			<0.001	<0.001	<0.001		
8/20/2019	<0.001						
8/21/2019							<0.001
9/24/2019						<0.001	
9/25/2019		<0.001			<0.001		
9/26/2019			<0.001	<0.001			
10/9/2019							<0.001
2/11/2020		<0.001	<0.001	<0.001			
2/12/2020					<0.001	<0.001	<0.001
3/24/2020		6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)	<0.001	
3/25/2020							5.1E-05 (J)
8/27/2020	<0.001						
9/22/2020	<0.001						
9/23/2020		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)			

Time Series

Constituent: Lead (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/24/2020					9.2E-05 (J)	4.6E-05 (J)	<0.001
2/9/2021			5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)	<0.001	
2/10/2021							<0.001
3/1/2021	<0.001						
3/3/2021		<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)		
3/4/2021						<0.001	<0.001
8/19/2021	<0.001						
8/26/2021				<0.001			<0.001
8/27/2021		<0.001	<0.001		<0.001		
9/1/2021						<0.001	
2/8/2022	<0.001						<0.001
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001	
8/30/2022		<0.001	<0.001	<0.001		<0.001	
8/31/2022	<0.001				<0.001		<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.001	<0.001	<0.001	
7/26/2016		<0.001	<0.001	<0.001	
8/31/2016					<0.001
9/14/2016		<0.001	<0.001	<0.001	
11/2/2016		<0.001	<0.001		
11/4/2016				<0.001	
11/28/2016					<0.001
1/12/2017			<0.001	<0.001	
1/13/2017		<0.001			
2/22/2017					<0.001
3/6/2017		<0.001			
3/7/2017			0.0001 (J)	7E-05 (J)	
5/1/2017		<0.001	<0.001		
5/2/2017				<0.001	
5/8/2017					<0.001
6/27/2017			<0.001	<0.001	
6/29/2017		<0.001			
7/17/2017					<0.001
10/12/2017	9E-05 (J)				
10/16/2017					<0.001
11/20/2017	<0.001				
1/10/2018	<0.001				
2/19/2018	<0.001				<0.001
3/29/2018		<0.001	<0.001	<0.001	
4/3/2018	<0.001				
6/28/2018	<0.001				
8/6/2018					<0.001
8/7/2018	<0.001				
9/24/2018	<0.001				
2/25/2019					<0.001
3/4/2019		<0.001	<0.001	<0.001	
4/3/2019		<0.001	<0.001	<0.001	
6/12/2019					<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.001
8/21/2019	<0.001				
9/24/2019			<0.001	9E-05 (J)	
9/25/2019		<0.001			
10/8/2019					<0.001
10/9/2019	<0.001				
2/12/2020	<0.001	<0.001	<0.001	<0.001	
3/17/2020					<0.001
3/24/2020	<0.001		5.4E-05 (J)	6.8E-05 (J)	
3/25/2020		<0.001			
8/26/2020					<0.001
9/22/2020		<0.001	4.5E-05 (J)	4.2E-05 (J)	0.0001 (J)
9/24/2020	3.8E-05 (J)				
2/8/2021			0.00013 (J)	3.7E-05 (J)	
2/9/2021		<0.001			
2/10/2021	<0.001				
3/2/2021			5.1E-05 (J)	9.2E-05 (J)	<0.001
3/3/2021		<0.001			
3/4/2021	<0.001				
8/20/2021					<0.001
8/26/2021		<0.001	<0.001	<0.001	
9/3/2021	<0.001				
2/8/2022	<0.001				<0.001
2/10/2022			<0.001	<0.001	
2/11/2022		<0.001			
8/30/2022			<0.001	<0.001	<0.001
8/31/2022	<0.001	<0.001			

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.015	<0.03				0.01
6/2/2016	<0.03				<0.03	0.018	
7/25/2016			0.002 (J)		<0.03		0.0132 (J)
7/26/2016	<0.03	0.0135 (J)				0.0221 (J)	
9/13/2016		0.0112 (J)	<0.03				
9/14/2016				0.004 (J)			0.012 (J)
9/15/2016	<0.03					0.0197 (J)	
9/19/2016					<0.03		
11/1/2016		0.0163 (J)			<0.03	0.0194 (J)	0.0115 (J)
11/2/2016	<0.03						
11/4/2016			<0.03	<0.03			
12/15/2016				0.0026 (J)			
1/10/2017	<0.03						
1/11/2017		0.0166 (J)				0.0177 (J)	0.0085 (J)
1/16/2017			0.0023 (J)	0.0023 (J)	<0.03		
2/21/2017					<0.03		
3/1/2017							0.0114 (J)
3/2/2017		0.0159 (J)	0.0025 (J)			0.0185 (J)	
3/3/2017				0.0013 (J)			
3/8/2017	<0.03						
4/26/2017	<0.03				<0.03	0.0183 (J)	0.0092 (J)
4/27/2017		0.0137 (J)	0.0027 (J)				
4/28/2017				0.0031 (J)			
5/26/2017				0.0038 (J)			
6/27/2017		0.0094 (J)	0.0024 (J)				
6/28/2017				0.0026 (J)		0.0173 (J)	0.0085 (J)
6/30/2017	<0.03				<0.03		
3/27/2018	<0.03		0.0023 (J)		0.0011 (J)		
3/28/2018				0.0025 (J)		0.02 (J)	0.013 (J)
3/29/2018		0.0078 (J)					
6/5/2018		0.0079 (J)					
6/6/2018			0.0024 (J)				
6/7/2018				0.0017 (J)		0.02 (J)	
6/8/2018	<0.03						0.012 (J)
6/11/2018					0.0012 (J)		
10/1/2018	<0.03	0.0053 (J)	0.0023 (J)	<0.03		0.02 (J)	0.011 (J)
10/2/2018					<0.03		
2/26/2019	<0.03				0.0011 (J)		
2/27/2019		0.0093 (J)	0.0023 (J)	0.0011 (J)		0.021 (J)	0.014 (J)
3/28/2019		0.013 (J)	0.0022 (J)				
3/29/2019	<0.03			0.0016 (J)			
4/1/2019					0.001 (J)	0.021 (J)	0.013 (J)
9/24/2019		0.0046 (J)	0.0023 (J)	0.0011 (J)			
9/25/2019	<0.03				0.0011 (J)	0.02 (J)	0.01 (J)
2/10/2020		0.011 (J)	0.0023 (J)				
2/11/2020				0.0012 (J)			0.013 (J)
2/12/2020	<0.03				0.0013 (J)	0.019 (J)	
3/18/2020	<0.03		0.0024 (J)				
3/19/2020		0.013 (J)		0.0022 (J)	0.0012 (J)	0.023 (J)	0.014 (J)
9/23/2020		0.014 (J)	0.0024 (J)	0.0016 (J)		0.023 (J)	0.013 (J)
9/24/2020					0.0011 (J)		
9/25/2020	<0.03						

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.03			0.0039 (J)		0.023 (J)	0.015 (J)
2/11/2021					0.0012 (J)		
2/12/2021		0.01 (J)	0.0025 (J)				
3/1/2021					0.0011 (J)		
3/2/2021	<0.03						
3/3/2021		0.012 (J)	0.0025 (J)	0.0016 (J)		0.024 (J)	0.017 (J)
8/19/2021	<0.03	0.013 (J)	0.0023 (J)		0.0012 (J)	0.023 (J)	
8/27/2021				0.0058 (J)			0.026 (J)
2/9/2022		0.013 (J)	0.0027 (J)	0.006 (J)		0.026 (J)	0.021 (J)
2/10/2022	<0.03						
2/11/2022					0.0014 (J)		
8/30/2022		0.013 (J)		0.0044 (J)			
8/31/2022	<0.03		<0.03		0.0012 (J)	0.021 (J)	0.022 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.007	<0.03	0.0067	<0.03			
6/9/2016					0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	<0.03	0.008 (J)	<0.03			
8/2/2016					0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	<0.03	0.0111 (J)	<0.03			
9/21/2016					0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	<0.03	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016					0.0072 (J)		
1/18/2017	0.0066 (J)	<0.03	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017				<0.03			0.0055 (J)
2/21/2017	0.0067 (J)	<0.03				<0.03	
2/22/2017				<0.03	0.0064 (J)		0.0063 (J)
2/23/2017			0.0099 (J)				
5/3/2017		<0.03					
5/5/2017					0.007 (J)	<0.03	
5/8/2017	0.007 (J)		0.0086 (J)	<0.03			0.0066 (J)
6/30/2017			0.0108 (J)	<0.03			
7/5/2017					0.0072 (J)		0.0058 (J)
7/7/2017						<0.03	
7/10/2017	0.0064 (J)	<0.03					
3/29/2018			0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)	<0.03			0.007 (J)	<0.03	
6/11/2018							0.0064 (J)
6/12/2018				<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	<0.03	0.014 (J)				
10/2/2018	0.0064 (J)	<0.03	0.012 (J)	<0.03			0.006 (J)
10/3/2018					0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	<0.03	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019			0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)	<0.03				<0.03	
9/25/2019	0.0073 (J)	<0.03					0.0057 (J)
9/26/2019			0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	<0.03	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020		<0.03			0.007 (J)	<0.03	
3/20/2020	0.0072 (J)		0.0091 (J)	<0.03			0.0051 (J)
9/24/2020	0.0074 (J)	<0.03	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	<0.03	0.0067 (J)	0.00081 (J)			
2/11/2021					0.007 (J)		
2/12/2021						0.0053 (J)	<0.03
3/2/2021		<0.03					
3/3/2021	0.0077 (J)		0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/19/2021		<0.03					
8/20/2021	0.0079 (J)		0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022				<0.03	0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0086 (J)	<0.03	0.0072 (J)				
8/31/2022	0.0074 (J)	<0.03					
9/1/2022			0.0069 (J)	<0.03	0.0066 (J)	<0.03	0.0051 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0088	0.015			
6/7/2016		<0.03				0.0055	
7/27/2016		<0.03	0.0087 (J)	0.0049 (J)	<0.03		
7/28/2016						0.0045 (J)	
8/30/2016	0.0061 (J)						
9/16/2016		<0.03		0.0031 (J)			
9/19/2016			0.0043 (J)		<0.03	0.0054 (J)	
11/2/2016					<0.03		
11/3/2016		<0.03	<0.03	0.0021 (J)		<0.03	
11/14/2016	0.0064 (J)						
1/11/2017		0.0035 (J)	0.0052 (J)	0.0025 (J)			
1/13/2017					<0.03	0.0062 (J)	
2/24/2017	0.0049 (J)						
3/1/2017			0.0053 (J)	0.0029 (J)			
3/2/2017		<0.03					
3/6/2017					<0.03	0.0059 (J)	
4/26/2017			0.0041 (J)	0.0019 (J)	<0.03	0.0054 (J)	
5/2/2017		<0.03					
5/8/2017	0.0053 (J)						
6/28/2017			0.0039 (J)	0.0016 (J)			
6/29/2017		<0.03			<0.03	0.0047 (J)	
7/11/2017	0.0051 (J)						
10/10/2017	0.0043 (J)						
10/11/2017							0.0018 (J)
11/20/2017							0.0018 (J)
1/11/2018							0.0019 (J)
2/20/2018							<0.03
3/28/2018		<0.03	0.0041 (J)	0.0024 (J)			
3/29/2018					<0.03	0.0062 (J)	
4/2/2018	0.0045 (J)						
4/3/2018							0.0022 (J)
6/5/2018						0.0061 (J)	
6/6/2018					<0.03		
6/7/2018			0.0032 (J)				
6/11/2018		<0.03		0.0014 (J)			
6/28/2018							0.0026 (J)
8/7/2018							0.0024 (J)
9/19/2018	0.0043 (J)						
9/24/2018							0.0022 (J)
9/25/2018		<0.03	0.0036 (J)	0.0016 (J)	<0.03	0.0062 (J)	
3/5/2019		<0.03		0.0031 (J)	<0.03	0.0053 (J)	
3/6/2019			0.0033 (J)				
4/2/2019		<0.03				0.0051 (J)	
4/3/2019			0.0035 (J)	0.0028 (J)	<0.03		
8/20/2019	0.0036 (J)						
8/21/2019							0.0035 (J)
9/24/2019						0.0068 (J)	
9/25/2019		<0.03			<0.03		
9/26/2019			0.0032 (J)	0.0029 (J)			
10/8/2019	0.0036 (J)						
10/9/2019							0.0036 (J)
2/11/2020		<0.03	0.0033 (J)	0.005 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.03	0.0065 (J)	0.0041 (J)
3/17/2020	0.0046 (J)						
3/24/2020		0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03	0.0064 (J)	
3/25/2020							0.0049 (J)
8/27/2020	0.0039 (J)						
9/22/2020	0.0036 (J)						
9/23/2020		<0.03	0.003 (J)	0.0022 (J)			
9/24/2020					<0.03	0.0069 (J)	0.0054 (J)
2/9/2021			0.0031 (J)	0.0019 (J)	<0.03	0.006 (J)	
2/10/2021							0.0071 (J)
3/1/2021	0.0037 (J)						
3/3/2021		<0.03	0.0034 (J)	0.0021 (J)	<0.03		
3/4/2021						0.0062 (J)	0.0084 (J)
8/19/2021	0.0038 (J)						
8/26/2021				0.0019 (J)			0.0082 (J)
8/27/2021		<0.03	0.0032 (J)		<0.03		
9/1/2021						0.0057 (J)	
2/8/2022	0.0039 (J)						0.008 (J)
2/9/2022		<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)	0.0061 (J)	
8/30/2022		<0.03	0.0036 (J)	0.0014 (J)		0.0079 (J)	
8/31/2022	0.0037 (J)				<0.03		0.0065 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		0.013	0.0049 (J)	<0.03	
7/26/2016		0.0123 (J)	0.0063 (J)	0.0027 (J)	
8/31/2016					<0.03
9/14/2016		0.0137 (J)	0.0058 (J)	0.0029 (J)	
11/2/2016		0.0136 (J)	0.0053 (J)		
11/4/2016				<0.03	
11/28/2016					<0.03
1/12/2017			0.0054 (J)	0.0032 (J)	
1/13/2017		0.0121 (J)			
2/22/2017					<0.03
3/6/2017		0.0143 (J)			
3/7/2017			0.0056 (J)	0.0035 (J)	
5/1/2017		0.0132 (J)	0.0031 (J)		
5/2/2017				0.0031 (J)	
5/8/2017					0.0014 (J)
6/27/2017			0.0018 (J)	0.0029 (J)	
6/29/2017		0.0145 (J)			
7/17/2017					<0.03
10/12/2017	<0.03				
10/16/2017					0.0016 (J)
11/20/2017	<0.03				
1/10/2018	<0.03				
2/19/2018	<0.03				<0.03
3/29/2018		0.014 (J)	0.0058 (J)	0.0034 (J)	
4/3/2018	<0.03				
6/6/2018			0.0068 (J)		
6/7/2018		0.013 (J)		0.0032 (J)	
6/28/2018	<0.03				
8/6/2018					<0.03
8/7/2018	<0.03				
9/24/2018	<0.03				
9/26/2018		0.014 (J)	0.0065 (J)	0.0032 (J)	
3/4/2019		0.015 (J)	0.0065 (J)	0.0032 (J)	
4/3/2019		0.014 (J)	0.007 (J)	0.0035 (J)	
8/19/2019					0.0019 (J)
8/21/2019	<0.03				
9/24/2019			0.0065 (J)	0.0031 (J)	
9/25/2019		0.014 (J)			
10/8/2019					0.0015 (J)
10/9/2019	<0.03				
2/12/2020	<0.03	0.011 (J)	0.0066 (J)	0.0032 (J)	
3/17/2020					0.0017 (J)
3/24/2020	<0.03		0.0064 (J)	0.0033 (J)	
3/25/2020		0.014 (J)			
8/26/2020					0.0032 (J)
9/22/2020		0.013 (J)	0.0066 (J)	0.0034 (J)	0.0029 (J)
9/24/2020	<0.03				
2/8/2021			0.0063 (J)	0.0032 (J)	
2/9/2021		0.011 (J)			
2/10/2021	<0.03				
3/2/2021			0.0018 (J)	0.0031 (J)	0.0033 (J)
3/3/2021		0.012 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2021	<0.03				
8/20/2021					0.0028 (J)
8/26/2021		0.0094 (J)	0.0075 (J)	0.0032 (J)	
9/3/2021	<0.03				
2/8/2022	0.00076 (J)				0.0031 (J)
2/10/2022			0.0076 (J)	0.0036 (J)	
2/11/2022		0.012 (J)			
8/30/2022			0.0068 (J)	0.0035 (J)	0.0025 (J)
8/31/2022	<0.03	0.013 (J)			

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0002	<0.0002				<0.0002
6/2/2016	<0.0002				<0.0002	<0.0002	
7/25/2016			<0.0002		<0.0002		<0.0002
7/26/2016	<0.0002	<0.0002				<0.0002	
9/13/2016		<0.0002	<0.0002				
9/14/2016				<0.0002			<0.0002
9/15/2016	<0.0002					<0.0002	
9/19/2016					<0.0002		
11/1/2016		<0.0002			<0.0002	<0.0002	<0.0002
11/2/2016	<0.0002						
11/4/2016			<0.0002	<0.0002			
12/15/2016				<0.0002			
1/10/2017	<0.0002						
1/11/2017		<0.0002				<0.0002	<0.0002
1/16/2017			<0.0002	<0.0002	<0.0002		
2/21/2017					<0.0002		
3/1/2017							<0.0002
3/2/2017		<0.0002	<0.0002			<0.0002	
3/3/2017				<0.0002			
3/8/2017	<0.0002						
4/26/2017	<0.0002				<0.0002	<0.0002	<0.0002
4/27/2017		<0.0002	<0.0002				
4/28/2017				<0.0002			
5/26/2017				<0.0002			
6/27/2017		<0.0002	<0.0002				
6/28/2017				<0.0002		<0.0002	<0.0002
6/30/2017	<0.0002				<0.0002		
3/27/2018	<0.0002		<0.0002		<0.0002		
3/28/2018				<0.0002		<0.0002	<0.0002
3/29/2018		<0.0002					
2/26/2019	6.1E-05 (J)				6.8E-05 (J)		
2/27/2019		5.1E-05 (J)	5.4E-05 (J)	<0.0002		6.2E-05 (J)	6.1E-05 (J)
3/28/2019		4E-05 (J)	<0.0002				
3/29/2019	<0.0002			<0.0002			
4/1/2019					8.2E-05 (J)	9.6E-05 (J)	8.4E-05 (J)
9/24/2019		<0.0002	<0.0002	<0.0002			
9/25/2019	<0.0002				<0.0002	<0.0002	<0.0002
2/10/2020		<0.0002	<0.0002				
2/11/2020				<0.0002			<0.0002
2/12/2020	<0.0002				<0.0002	<0.0002	
2/10/2021	<0.0002			<0.0002		<0.0002	<0.0002
2/11/2021					<0.0002		
2/12/2021		<0.0002	<0.0002				
2/9/2022		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
2/10/2022	<0.0002						
2/11/2022					<0.0002		
8/30/2022		<0.0002		<0.0002		<0.0002	<0.0002
8/31/2022	<0.0002		<0.0002		<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	<0.0002 (*)
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016					<0.0002		
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			<0.0002
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		<0.0002
2/23/2017			<0.0002				
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		<0.0002
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
3/29/2018			<0.0002	<0.0002			<0.0002
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
9/25/2019	<0.0002	<0.0002					<0.0002
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
8/31/2022	<0.0002	<0.0002					
9/1/2022			<0.0002	0.00019 (J)	<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0002	<0.0002			
6/7/2016		9.5E-05 (J)			9.6E-05 (J)	9.6E-05 (J)	
7/27/2016		<0.0002	<0.0002	<0.0002	<0.0002		
7/28/2016						<0.0002	
8/30/2016	<0.0002						
9/16/2016		<0.0002		<0.0002			
9/19/2016			<0.0002		<0.0002	<0.0002	
11/2/2016					<0.0002		
11/3/2016		<0.0002	<0.0002	<0.0002		<0.0002	
11/14/2016	<0.0002						
1/11/2017		<0.0002	<0.0002	<0.0002			
1/13/2017					<0.0002	<0.0002	
2/24/2017	<0.0002						
3/1/2017			<0.0002	<0.0002			
3/2/2017		<0.0002					
3/6/2017					<0.0002	<0.0002	
4/26/2017			<0.0002	<0.0002	<0.0002	<0.0002	
5/2/2017		<0.0002					
5/8/2017	<0.0002						
6/28/2017			<0.0002	<0.0002			
6/29/2017		<0.0002			<0.0002	<0.0002	
7/11/2017	<0.0002						
10/10/2017	<0.0002						
10/11/2017							<0.0002
11/20/2017							7E-05 (J)
1/11/2018							<0.0002
2/20/2018							<0.0002
3/28/2018		<0.0002	<0.0002	<0.0002			
3/29/2018					<0.0002	<0.0002	
4/2/2018	<0.0002						
4/3/2018							<0.0002
6/28/2018							<0.0002
8/7/2018							<0.0002
9/19/2018	5.3E-05 (J)						
9/24/2018							<0.0002
9/25/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
3/5/2019		<0.0002		<0.0002	<0.0002	<0.0002	
3/6/2019			<0.0002				
8/20/2019	<0.0002						
8/21/2019							<0.0002
2/11/2020		<0.0002	<0.0002	<0.0002			
2/12/2020					<0.0002	<0.0002	<0.0002
8/27/2020	<0.0002						
2/9/2021			<0.0002	<0.0002	<0.0002	<0.0002	
2/10/2021							<0.0002
3/3/2021		<0.0002	<0.0002	<0.0002	<0.0002		
3/4/2021						<0.0002	<0.0002
8/19/2021	<0.0002						
8/26/2021				<0.0002			<0.0002
8/27/2021		<0.0002	<0.0002		<0.0002		
9/1/2021						<0.0002	
2/8/2022	<0.0002						<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/30/2022		<0.0002	<0.0002	<0.0002		<0.0002	
8/31/2022	<0.0002				<0.0002		<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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)
6/2/2016		<0.0002	<0.0002	<0.0002	
7/26/2016		<0.0002	<0.0002	<0.0002	
8/31/2016					<0.0002
9/14/2016		<0.0002	<0.0002	<0.0002	
11/2/2016		<0.0002	<0.0002		
11/4/2016				<0.0002	
11/28/2016					<0.0002
1/12/2017			<0.0002	<0.0002	
1/13/2017		<0.0002			
2/22/2017					<0.0002
3/6/2017		<0.0002			
3/7/2017			<0.0002	<0.0002	
5/1/2017		<0.0002	<0.0002		
5/2/2017				<0.0002	
5/8/2017					<0.0002
6/27/2017			<0.0002	<0.0002	
6/29/2017		<0.0002			
7/17/2017					<0.0002
10/12/2017	<0.0002				
10/16/2017					<0.0002
11/20/2017	8E-05 (J)				
1/10/2018	<0.0002				
2/19/2018	<0.0002				<0.0002
3/29/2018		<0.0002	<0.0002	<0.0002	
4/3/2018	<0.0002				
6/28/2018	3.6E-05 (J)				
8/6/2018					<0.0002
8/7/2018	<0.0002				
9/24/2018	<0.0002				
9/26/2018		<0.0002	<0.0002	<0.0002	
2/25/2019					7.4E-05 (J)
3/4/2019		<0.0002	<0.0002	<0.0002	
6/12/2019					<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.0002
8/21/2019	<0.0002				
10/8/2019					<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	
5/6/2020					<0.0002
8/26/2020					<0.0002
9/22/2020					<0.0002
2/8/2021			<0.0002	<0.0002	
2/9/2021		<0.0002			
2/10/2021	<0.0002				
3/2/2021			<0.0002	<0.0002	<0.0002
3/3/2021		<0.0002			
3/4/2021	<0.0002				
8/20/2021					<0.0002
8/26/2021		<0.0002	<0.0002	<0.0002	
9/3/2021	0.00012 (J)				
2/8/2022	0.00013 (J)				<0.0002
2/10/2022			<0.0002	<0.0002	
2/11/2022		<0.0002			
8/30/2022			<0.0002	<0.0002	<0.0002
8/31/2022	0.00064	<0.0002			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.014 (J)	0.012 (J)				0.0055 (J)
6/2/2016	<0.01				<0.01	0.0093 (J)	
7/25/2016			0.0098 (J)		<0.01		0.0037 (J)
7/26/2016	<0.01	0.0132				0.0113	
9/13/2016		0.0127	0.01 (J)				
9/14/2016				0.0039 (J)			0.0034 (J)
9/15/2016	<0.01					0.0112	
9/19/2016					<0.01		
11/1/2016		0.0092 (J)			<0.01	0.0099 (J)	0.0025 (J)
11/2/2016	<0.01						
11/4/2016			0.01	0.0077 (J)			
12/15/2016				0.0066 (J)			
1/10/2017	<0.01						
1/11/2017		0.0093 (J)				0.0093 (J)	0.0033 (J)
1/16/2017			0.0086 (J)	0.0056 (J)	<0.01		
2/21/2017					<0.01		
3/1/2017							0.0044 (J)
3/2/2017		0.0099 (J)	0.01			0.0103	
3/3/2017				0.0049 (J)			
3/8/2017	<0.01						
4/26/2017	<0.01				<0.01	0.01	0.0075 (J)
4/27/2017		0.0103	0.0101				
4/28/2017				0.004 (J)			
5/26/2017				0.0029 (J)			
6/27/2017		0.0097 (J)	0.0093 (J)				
6/28/2017				0.0036 (J)		0.0102	0.008 (J)
6/30/2017	<0.01				<0.01		
3/27/2018	<0.01		0.0074 (J)		<0.01		
3/28/2018				0.0038 (J)		0.011	0.0025 (J)
3/29/2018		0.0076 (J)					
6/5/2018		0.0092 (J)					
6/6/2018			0.0073 (J)				
6/7/2018				0.004 (J)		0.011	
6/8/2018	<0.01						0.0041 (J)
6/11/2018					<0.01		
10/1/2018	<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)		0.012	0.0037 (J)
10/2/2018					<0.01		
2/26/2019	<0.01				<0.01		
2/27/2019		0.0087 (J)	0.0078 (J)	0.0041 (J)		0.011	0.0027 (J)
3/28/2019		0.0092 (J)	0.0082 (J)				
3/29/2019	<0.01			0.0041 (J)			
4/1/2019					<0.01	0.012	0.0021 (J)
9/24/2019		0.0072 (J)	0.0074 (J)	0.0054 (J)			
9/25/2019	<0.01				<0.01	0.012	0.0087 (J)
2/10/2020		0.0087 (J)	0.0062 (J)				
2/11/2020				0.0057 (J)			0.003 (J)
2/12/2020	<0.01				<0.01	0.013	
3/18/2020	<0.01		0.0056 (J)				
3/19/2020		0.0088 (J)		0.0046 (J)	<0.01	0.013	0.0043 (J)
9/23/2020		0.008 (J)	0.0059 (J)	0.0071 (J)		0.012	0.01
9/24/2020					<0.01		
9/25/2020	<0.01						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.01			0.0041 (J)		0.014	0.0038 (J)
2/11/2021					<0.01		
2/12/2021		0.008 (J)	0.0056 (J)				
3/1/2021					<0.01		
3/2/2021	<0.01						
3/3/2021		0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013	0.0036 (J)
8/19/2021	<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013	
8/27/2021				0.0048 (J)			0.0099 (J)
2/9/2022		0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013	0.0087 (J)
2/10/2022	<0.01						
2/11/2022					<0.01		
8/30/2022		0.0094 (J)		0.0068 (J)			
8/31/2022	<0.01		0.0055 (J)		<0.01	0.011	0.0068 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.01	<0.01	0.0011 (J)	<0.01			
6/9/2016					0.0011 (J)	<0.01	<0.01
8/1/2016	<0.01	<0.01	0.0018 (J)	<0.01			
8/2/2016					0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01	<0.01	<0.01	<0.01			
9/21/2016					<0.01	<0.01	<0.01
11/7/2016	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
11/8/2016					<0.01		
1/18/2017	<0.01	<0.01	<0.01		<0.01	<0.01	
1/19/2017				<0.01			<0.01
2/21/2017	<0.01	<0.01				<0.01	
2/22/2017				<0.01	<0.01		<0.01
2/23/2017			<0.01				
5/3/2017		<0.01					
5/5/2017					0.0014 (J)	0.0007 (J)	
5/8/2017	<0.01		0.0011 (J)	<0.01			<0.01
6/30/2017			<0.01	<0.01			
7/5/2017					0.0014 (J)		<0.01
7/7/2017						<0.01	
7/10/2017	<0.01	<0.01					
3/29/2018			<0.01	<0.01			<0.01
3/30/2018	<0.01	<0.01			<0.01	<0.01	
6/11/2018							<0.01
6/12/2018				<0.01	<0.01	<0.01	
6/13/2018	<0.01	<0.01	<0.01				
10/2/2018	<0.01	<0.01	<0.01	<0.01			<0.01
10/3/2018					<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/1/2019			<0.01	<0.01	<0.01		<0.01
4/2/2019	<0.01	<0.01				<0.01	
9/25/2019	<0.01	<0.01					<0.01
9/26/2019			0.0013 (J)	<0.01	0.0013 (J)	<0.01	
2/13/2020	<0.01	<0.01	0.0014 (J)	<0.01	0.0013 (J)	<0.01	<0.01
3/19/2020		<0.01			0.0014 (J)	<0.01	
3/20/2020	<0.01		0.0014 (J)	<0.01			<0.01
9/24/2020	<0.01	<0.01	0.0015 (J)	<0.01	0.0012 (J)	0.00075 (J)	<0.01
2/10/2021	<0.01	<0.01	0.0016 (J)	<0.01			
2/11/2021					0.0012 (J)		
2/12/2021						<0.01	0.00083 (J)
3/2/2021		<0.01					
3/3/2021	<0.01		0.0017 (J)	<0.01	0.0011 (J)	0.00083 (J)	<0.01
8/19/2021		<0.01					
8/20/2021	<0.01		0.0042 (J)	<0.01	0.001 (J)	<0.01	<0.01
2/8/2022				<0.01	0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	<0.01	<0.01	0.0018 (J)				
8/31/2022	<0.01	<0.01					
9/1/2022			0.0016 (J)	<0.01	0.001 (J)	<0.01	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/1/2021	<0.01						
3/3/2021		<0.01	<0.01	<0.01	<0.01		
3/4/2021						<0.01	0.0014 (J)
8/19/2021	<0.01						
8/26/2021				<0.01			0.0027 (J)
8/27/2021		<0.01	<0.01		<0.01		
9/1/2021						<0.01	
2/8/2022	<0.01						0.0035 (J)
2/9/2022		<0.01	<0.01	<0.01	<0.01	<0.01	
8/30/2022		<0.01	<0.01	<0.01		<0.01	
8/31/2022	<0.01				<0.01		0.0036 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.01	0.0035 (J)	<0.01	
7/26/2016		<0.01	0.0042 (J)	<0.01	
8/31/2016					<0.01
9/14/2016		<0.01	0.0041 (J)	<0.01	
11/2/2016		<0.01	0.0039 (J)		
11/4/2016				<0.01	
11/28/2016					<0.01
1/12/2017			0.0041 (J)	<0.01	
1/13/2017		<0.01			
2/22/2017					<0.01
3/6/2017		<0.01			
3/7/2017			0.0047 (J)	<0.01	
5/1/2017		<0.01	0.0045 (J)		
5/2/2017				<0.01	
5/8/2017					<0.01
6/27/2017			0.004 (J)	<0.01	
6/29/2017		<0.01			
7/17/2017					<0.01
10/12/2017	<0.01				
10/16/2017					<0.01
11/20/2017	<0.01				
1/10/2018	<0.01				
2/19/2018	<0.01				<0.01
3/29/2018		<0.01	<0.01	<0.01	
4/3/2018	<0.01				
6/28/2018	<0.01				
8/6/2018					<0.01
8/7/2018	<0.01				
9/24/2018	<0.01				
3/4/2019		<0.01	<0.01	<0.01	
8/19/2019					<0.01
8/21/2019	<0.01				
10/9/2019	<0.01				
2/12/2020	<0.01	<0.01	0.0011 (J)	<0.01	
3/24/2020	<0.01		0.0011 (J)	<0.01	
3/25/2020		<0.01			
8/26/2020					<0.01
9/22/2020		<0.01	0.00099 (J)	<0.01	
9/24/2020	<0.01				
2/8/2021			0.0011 (J)	<0.01	
2/9/2021		<0.01			
2/10/2021	<0.01				
3/2/2021			<0.01	<0.01	
3/3/2021		<0.01			
3/4/2021	<0.01				
8/20/2021					<0.01
8/26/2021		<0.01	0.001 (J)	<0.01	
9/3/2021	<0.01				
2/8/2022	<0.01				<0.01
2/10/2022			0.00096 (J)	<0.01	
2/11/2022		<0.01			
8/30/2022			0.00089 (J)	<0.01	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/31/2022	<0.01	<0.01			

Time Series

Constituent: pH (S.U.) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		7.46	6.33				7.72
6/2/2016	5.46				5.75	7.84	
7/25/2016			6.21		5.82		7.74
7/26/2016	5.45	7.43				7.88	
9/13/2016		7.44	6.16	7.41			
9/14/2016							7.65
9/15/2016	5.45					7.74	
9/19/2016					5.78 (D)		
11/1/2016		7.24			5.62	7.75	7.7
11/2/2016	5.41						
11/4/2016			6.29	7.12			
12/15/2016				7.24			
1/10/2017	5.37						
1/11/2017		7.3				7.66	7.53
1/16/2017			6.29	7.24	5.72		
2/21/2017					5.67		
3/1/2017							7.42
3/2/2017		7.23	6.28			7.68	
3/3/2017				7.22			
3/8/2017	5.41						
4/26/2017	5.02				5.56	7.45	7.4
4/27/2017		6.99	6.09				
4/28/2017				7.21			
5/26/2017				7.13			
6/27/2017		6.87	6.21				
6/28/2017				7.06		7.65	7.5
6/30/2017	5.39				5.72		
10/3/2017		6.81	5.98	6.99			
10/4/2017					5.87	7.49	7.45
10/5/2017	5.49						
3/27/2018	5.47		6.25		5.83		
3/28/2018				7.3		7.91	7.74
3/29/2018		7.38					
6/5/2018		7.16					
6/6/2018			6.17				
6/7/2018				7.29		7.69	
6/8/2018	5.45						7.64
6/11/2018					5.69		
10/1/2018	5.39	6.8	5.9	7.07		7.39	7.47
10/2/2018					5.39		
2/26/2019	5.46				5.77		
2/27/2019		6.84	5.8	7.27		7.55	7.54
3/28/2019		6.99	6.15				
3/29/2019	5.34			7.06			
4/1/2019					5.62	7.87	7.74
9/24/2019		7.07	6.23	7.01			
9/25/2019	5.19				5.69	7.64	7.47
2/10/2020		7.2	6.1				
2/11/2020				7.38			7.09
2/12/2020	5.48				5.8	7.83	
3/18/2020	5.38		6.19				
3/19/2020		7.03		7.22	6	7.65	7.31

Time Series

Constituent: pH (S.U.) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		7.15	6.01	7.22		7.57	7.37
9/24/2020					5.67		
9/25/2020	5.44						
2/10/2021	5.35			7.29		7.81	7.58
2/11/2021					5.73		
2/12/2021		7.14	6.21				
3/1/2021					5.78		
3/2/2021	5.49						
3/3/2021		7.2	5.38	7.92		8.39	8.23
8/19/2021	7.32	6.32	6.38			5.34	
8/27/2021				7.14			7.39
2/9/2022		7.12	6.24	5.89		7.97	7.66
2/10/2022	4.5						
2/11/2022					5.59		
8/30/2022		7.2		7.04			
8/31/2022	5.15		5.64		5.87	7.65	7.49

Time Series

Constituent: pH (S.U.) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	5.85	5.24	6.32	6.24			
6/9/2016					6.42	6.39	6.19
8/1/2016	5.83	5.17	6.34	6.12			
8/2/2016					6.43	6.35	6.17
9/20/2016	5.89	5.35	6.36	6.3			
9/21/2016					6.45	6.39	6.2
11/7/2016	5.91	5.35	6.3	6.25		6.36	6.1
11/8/2016					6.37		
1/18/2017	5.84	5.2	6.31		6.27	6.23	
1/19/2017				6.2			6.22
2/21/2017	5.79	5.14				6.42	
2/22/2017				6.14	6.35		6.12
2/23/2017			6.18				
5/3/2017		5.28					
5/5/2017					6.36	6.4	
5/8/2017	5.84		6.24	6.11			6.11
6/30/2017			6.21	6.17			
7/5/2017					6.4		6.17
7/7/2017						6.46	
7/10/2017	5.92	5.25					
10/5/2017					6.43		6.17
10/6/2017				6.13			
10/9/2017			6.26			6.37	
10/10/2017	5.84	5.17					
3/29/2018			6.36	6.25			6.09
3/30/2018	6.19	5.19			6.39	6.35	
6/11/2018							6.17
6/12/2018				6.22	6.42	6.47	
6/13/2018	5.82	5.12	6.28				
10/2/2018	5.81	4.95	5.9	5.99			6.17
10/3/2018					6.21	6.01	
2/27/2019	5.79	5	6.31	6.26	6.32	6.38	6.19
4/1/2019			6.43	6.4	6.3		6.03
4/2/2019	5.87	5.13				6.7	
9/25/2019	5.79	5.24					6.21
9/26/2019			6.3	6.22	6.43	6.47	
2/13/2020	5.93	5.29	6.4	6.31	6.49	6.53	6.32
3/19/2020		5.46			7.01	6.98	
3/20/2020	5.94		6.32	6.18			6.17
9/24/2020	5.86	5.46	6.36	6.27	6.41	6.53	6.2
2/10/2021	5.96	5.18	6.29	6.21			
2/11/2021					6.57		
2/12/2021						6.6	6.24
3/2/2021		5.38					
3/3/2021	5.93		6.43	6.35	6.51	6.61	6.27
8/19/2021		5.12					
8/20/2021	5.78		6.17	6.18	6.23	6.38	6.07
2/8/2022				6.22	6.34	6.3	5.88
2/10/2022	5.84	5.31	6.23				
8/31/2022	5.77	5.61					
9/1/2022			6.13	6.13	6.41	6.59	6.05

Time Series

Constituent: pH (S.U.) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			6.17	5.71			
6/7/2016		5.62			5.77	6.1	
7/27/2016		5.59	6.14	5.46	5.79		
7/28/2016						6.12	
8/30/2016	5.75						
9/16/2016		5.58					
9/19/2016			6.04	5.59	5.73	6.12	
11/2/2016					5.67		
11/3/2016		5.59	5.97	5.39		6.07	
11/14/2016	5.59						
1/11/2017		5.59	6.05	5.48			
1/13/2017					5.79	6.41	
2/24/2017	5.49						
3/1/2017			5.94	5.41			
3/2/2017		5.54					
3/6/2017					5.63	6.34	
4/26/2017			5.99	5.4	5.66	6.32	
5/2/2017		5.47					
5/8/2017	5.58						
6/28/2017			6	5.36			
6/29/2017		5.56			5.85	6.47	
7/11/2017	5.58						
10/3/2017						6.56	
10/4/2017		5.57		5.32	5.83		
10/5/2017			6.11				
10/10/2017	5.49						
10/11/2017							6.4
11/20/2017							6.33
1/11/2018							6.29
2/20/2018							7.22
3/28/2018		5.59	6.1	5.34			
3/29/2018					5.93	6.75	
4/2/2018	6.3 (o)						
4/3/2018							6.87
6/5/2018						6.09	
6/6/2018					5.86		
6/7/2018			5.98				
6/11/2018		5.58		5.28			
6/28/2018							6.18
8/7/2018							6.08
9/19/2018	5.48						
9/24/2018							5.81
9/25/2018		5.59	5.81	4.86	5.84	6.67	
3/5/2019		5.48		5.26	6.07	7.22	
3/6/2019			5.99				
3/27/2019	5.83						5.84
4/2/2019		5.74				6.94	
4/3/2019			6.29	5.47	5.71		
8/20/2019	5.58						
8/21/2019							5.96
9/24/2019						6.87	
9/25/2019		5.49			5.86		

Time Series

Constituent: pH (S.U.) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/26/2019			6.04	5.2			
10/8/2019	5.59						
10/9/2019							5.81
2/11/2020		5.58	6.07	5.3			
2/12/2020					6	7.13	5.97
3/17/2020	5.57						
3/24/2020		5.57	5.98	5.33	5.86	6.35	
3/25/2020							5.78
8/27/2020	4.88						
9/22/2020	5.46						
9/23/2020		5.58	6.01	5.29			
9/24/2020					5.8	6.7	5.7
2/9/2021			6.12	5.43	5.86	6.95	
2/10/2021							5.8
3/1/2021	5.48						
3/3/2021		5.52	5.89	5.31	5.89		
3/4/2021						6.8	5.54
8/19/2021	5.5						
8/26/2021				4.4			6.91
8/27/2021		5.27	5.4		5.57		
9/1/2021						6.65	
2/8/2022	5.4						5.78
2/9/2022		5.53	5.98	5.28	5.91	6.84	
8/30/2022		4.68	5.82	5.18		6.58	
8/31/2022	5.32				5.38		5.3

Time Series

Constituent: pH (S.U.) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		6.36	7.67	5.75	
7/26/2016		6.22	7.66	5.72	
9/14/2016		6.23	7.6	5.74	
11/2/2016		6.08	7.35		
11/4/2016				5.61	
11/28/2016					6.23
1/12/2017			7.49	5.71	
1/13/2017		6.19			
2/22/2017					6.21
3/6/2017		6.2			
3/7/2017			7.43	5.66	
5/1/2017		6.21	7.22		
5/2/2017				5.65	
5/8/2017					6.12
6/27/2017			7.32	5.7	
6/29/2017		6.21			
7/17/2017					6.03
10/3/2017			7.48	5.79	
10/5/2017		6.16			
10/12/2017	5.43				
10/16/2017					6.12
11/20/2017	5.1				
1/10/2018	4.97				
2/19/2018	5.6				6.13
3/29/2018		6.09	7.02	5.63	
4/3/2018	5.84				
6/6/2018			7.43		
6/7/2018		6.12		5.63	
6/28/2018	5.24				
8/6/2018					6.01
8/7/2018	5.18				
9/24/2018	5.14				
9/26/2018		5.84	7.13	5.63	
2/25/2019					6.51
3/4/2019		6.18	7.46	5.75	
3/26/2019	5.3				
4/3/2019		6.43	7.11	5.63	
6/12/2019					6.3
8/19/2019					6.23

Time Series

Constituent: pH (S.U.) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	5.26				
9/24/2019			6.93	5.6	
9/25/2019		6.2			
10/8/2019					6.28
10/9/2019	5.22				
2/12/2020	5.3	6.15	7.52	5.83	
3/17/2020					6.14
3/24/2020	5.29		7.34	5.81	
3/25/2020		6.26			
5/6/2020					6.24
8/26/2020					5.67
9/22/2020		5.8	7.19	5.99	5.78
9/24/2020	5.43				
2/8/2021				5.67	
2/9/2021		6.06			
2/10/2021	5.19				
3/2/2021			7.15	5.63	5.42
3/3/2021		6.21			
3/4/2021	5.23				
8/20/2021					5.86
8/26/2021		5.82	7.16	5.51	
9/3/2021	4.75				
2/8/2022	5.26				5.83
2/10/2022			6.99	5.14	
2/11/2022		5.95			
8/30/2022			7.4	5	5.39
8/31/2022	4.53	5.5			

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	<0.005				<0.005
6/2/2016	0.0011 (J)				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	0.0016 (J)	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	0.0014 (J)					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	0.0012 (J)						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017							<0.005
3/2/2017		<0.005	<0.005			<0.005	
3/3/2017				<0.005			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		<0.005	<0.005				
4/28/2017				<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
2/26/2019	<0.005				<0.005		
2/27/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28/2019		<0.005	<0.005				
3/29/2019	0.0019 (J)			<0.005			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		<0.005	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		<0.005	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		<0.005				
3/19/2020		<0.005		<0.005	<0.005	<0.005	<0.005
9/23/2020		<0.005	<0.005	<0.005		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<0.005	<0.005		<0.005	<0.005
2/10/2022	0.0014 (J)						
2/11/2022					<0.005		
8/30/2022		<0.005		<0.005			
8/31/2022	<0.005		<0.005		<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0016	0.0003 (J)	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0023 (J)	0.0014 (J)	<0.005	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	0.0022 (J)	<0.005	<0.005	<0.005			
9/21/2016					<0.005	0.001 (J)	<0.005
11/7/2016	0.0017 (J)	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	0.002 (J)	0.0012 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	0.0018 (J)	0.0014 (J)				<0.005	
2/22/2017				<0.005	0.0012 (J)		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	0.002 (J)	<0.005					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	0.0017 (J)	<0.005				<0.005	
9/25/2019	0.0019 (J)	<0.005					<0.005
9/26/2019			<0.005	<0.005	<0.005	<0.005	
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/19/2020		<0.005			<0.005	<0.005	
3/20/2020	0.0019 (J)		<0.005	<0.005			<0.005
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	0.0026 (J)	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	0.0034 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	0.0026 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005	<0.005				
8/31/2022	0.0036 (J)	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.005	<0.005			
6/7/2016		0.001 (J)			<0.005	0.00048 (J)	
7/27/2016		0.0012 (J)	<0.005	<0.005	<0.005		
7/28/2016						<0.005	
8/30/2016	0.0017 (J)						
9/16/2016		0.0015 (J)		<0.005			
9/19/2016			<0.005		<0.005	0.0014 (J)	
11/2/2016					<0.005		
11/3/2016		0.0015 (J)	<0.005	<0.005		<0.005	
11/14/2016	<0.005						
1/11/2017		0.0014 (J)	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	0.0011 (J)						
3/1/2017			<0.005	<0.005			
3/2/2017		0.0017 (J)					
3/6/2017					<0.005	<0.005	
4/26/2017			<0.005	<0.005	<0.005	<0.005	
5/2/2017		<0.005					
5/8/2017	<0.005						
6/28/2017			<0.005	<0.005			
6/29/2017		<0.005			<0.005	<0.005	
7/11/2017	<0.005						
10/10/2017	<0.005						
10/11/2017							<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	<0.005			
3/29/2018					<0.005	<0.005	
4/2/2018	<0.005						
4/3/2018							<0.005
6/5/2018						<0.005	
6/6/2018					<0.005		
6/7/2018			<0.005				
6/11/2018		<0.005		<0.005			
6/28/2018							<0.005
8/7/2018							<0.005
9/19/2018	<0.005						
9/24/2018							0.0015 (J)
9/25/2018		<0.005	<0.005	<0.005	<0.005	<0.005	
3/5/2019		<0.005		<0.005	<0.005	<0.005	
3/6/2019			<0.005				
4/2/2019		<0.005				<0.005	
4/3/2019			<0.005	<0.005	<0.005		
8/20/2019	<0.005						
8/21/2019							<0.005
9/24/2019						<0.005	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/9/2019							<0.005
2/11/2020		<0.005	<0.005	<0.005			
2/12/2020					<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/24/2020		<0.005	<0.005	<0.005	<0.005	<0.005	
3/25/2020							<0.005
8/27/2020	<0.005						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	<0.005	<0.005
2/9/2021			<0.005	<0.005	<0.005	<0.005	
2/10/2021							<0.005
3/3/2021		<0.005	<0.005	<0.005	<0.005		
3/4/2021						<0.005	<0.005
8/19/2021	<0.005						
8/26/2021				<0.005			<0.005
8/27/2021		<0.005	<0.005		<0.005		
9/1/2021						<0.005	
2/8/2022	<0.005						<0.005
2/9/2022		<0.005	<0.005	<0.005	<0.005	<0.005	
8/30/2022		<0.005	<0.005	<0.005		<0.005	
8/31/2022	<0.005				<0.005		<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.005	<0.005	<0.005	
7/26/2016		0.0009 (J)	<0.005	0.0009 (J)	
8/31/2016					<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<0.005
3/6/2017		<0.005			
3/7/2017			<0.005	<0.005	
5/1/2017		<0.005	<0.005		
5/2/2017				<0.005	
5/8/2017					<0.005
6/27/2017			<0.005	<0.005	
6/29/2017		<0.005			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017					<0.005
11/20/2017	0.0042 (J)				
1/10/2018	0.0043 (J)				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<0.005	
4/3/2018	<0.005				
6/6/2018			<0.005		
6/7/2018		<0.005		<0.005	
6/28/2018	0.0032 (J)				
8/6/2018					<0.005
8/7/2018	0.0031 (J)				
9/24/2018	0.0026 (J)				
9/26/2018		<0.005	<0.005	<0.005	
2/25/2019					<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		<0.005	<0.005	<0.005	
6/12/2019					<0.005
8/19/2019					<0.005
8/21/2019	0.0024 (J)				
9/24/2019			<0.005	<0.005	
9/25/2019		<0.005			
10/8/2019					<0.005
10/9/2019	0.0026 (J)				
2/12/2020	0.002 (J)	<0.005	<0.005	<0.005	
3/17/2020					<0.005
3/24/2020	0.002 (J)		<0.005	<0.005	
3/25/2020		<0.005			
8/26/2020					<0.005
9/22/2020		<0.005	<0.005	<0.005	<0.005
9/24/2020	0.0016 (J)				
2/8/2021			<0.005	<0.005	
2/9/2021		<0.005			
2/10/2021	<0.005				
3/2/2021			<0.005	<0.005	<0.005
3/3/2021		0.0019 (J)			
3/4/2021	<0.005				
8/20/2021					<0.005
8/26/2021		<0.005	<0.005	<0.005	
9/3/2021	<0.005				
2/8/2022	0.0014 (J)				<0.005
2/10/2022			<0.005	<0.005	
2/11/2022		<0.005			
8/30/2022			<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		5	4.2				12
6/2/2016	6.6				1.3	5.8	
7/25/2016			3.7		1.2		8.4
7/26/2016	6.1	5.4				6.7	
9/13/2016		2.9	5.2				
9/14/2016				9.4			8.6
9/15/2016	6.1					6	
9/19/2016					1.2		
11/1/2016		3.9			1.3	4.9	8.9
11/2/2016	6.3						
11/4/2016			5	13			
12/15/2016				1.8			
1/10/2017	5.9						
1/11/2017		3.7				4.5	8.6
1/16/2017			7.9	11	<1		
2/21/2017					1.4		
3/1/2017							9.3
3/2/2017		4.6	7.4			4.4	
3/3/2017				8.8			
3/8/2017	7						
4/26/2017	7				1.4	5.1	11
4/27/2017		5.2	7.4				
4/28/2017				10			
5/26/2017				12			
6/27/2017		5.9	6.4				
6/28/2017				11		5.4	12
6/30/2017	6.5				<1		
10/3/2017		6.6	5.9	7.9			
10/4/2017					1.4	6.2	12
10/5/2017	7.9						
6/5/2018		6.4					
6/6/2018			4.4				
6/7/2018				8.8		6.7	
6/8/2018	6.4						9.6
6/11/2018					1.1		
10/1/2018	6.8	5.6	4	9.1		7.1	9.1
10/2/2018					1		
3/28/2019		8	4.3				
3/29/2019	7.3			9			
4/1/2019					0.96 (J)	7.2	8.5
9/24/2019		5.3	4.3	9.1			
9/25/2019	6.6				0.81 (J)	7	13.8
3/18/2020	8.1		5.3				
3/19/2020		10		12.4	1.6	9	12.9
9/23/2020		8.1	3.4	11.8		6.9	16.8
9/24/2020					0.69 (J)		
9/25/2020	6.1						
3/1/2021					0.88 (J)		
3/2/2021	6						
3/3/2021		9	4.4	10.6		7	9.6
8/19/2021	6.7	8.9	4.9		1	7.5	
8/27/2021				16.7			18.2

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		9.3	5.1	18		7.2	16
2/10/2022	6.2						
2/11/2022					2.8		
8/30/2022		10.2		20.1			
8/31/2022	5.8		4.8		1.1	6.9	13.9

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	81	110	3.2	26			
6/9/2016					8.7	5.2	33
8/1/2016	75	96	3.6	27			
8/2/2016					7.5	4.5	32
9/20/2016	78	100	5.6	21			
9/21/2016					8	<1 (*)	32
11/7/2016	81	100	5.4	24		4.3	33
11/8/2016					8.3		
1/18/2017	95	100	3.5		8	2.7	
1/19/2017				25			32
2/21/2017	80	96				3	
2/22/2017				24	8.2		31
2/23/2017			4.9				
5/3/2017		100					
5/5/2017					<1 (*)	<1 (*)	
5/8/2017	84		3.9	23			32
6/30/2017			5	23			
7/5/2017					8.1		31
7/7/2017						2.7	
7/10/2017	84	100					
10/5/2017					8.6		31
10/6/2017				23			
10/9/2017			5.1			2.9	
10/10/2017	82	97					
6/11/2018							30.6
6/12/2018				18.1	8.2	2.9	
6/13/2018	76.5	93.3	6.1				
10/2/2018	83.9	99	6.1	20.2			30.8
10/3/2018					8	2.1	
4/1/2019			4.1	18.3	8.2		30.4
4/2/2019	77.6	94.5				2.4	
9/25/2019	80.1	97					30
9/26/2019			4.2	18.2	7.9	1.6	
3/19/2020		99.4			9.1	1.7	
3/20/2020	84.7		5.2	21.1			33
9/24/2020	85.6	92.3	3	16.6	7.2	0.99 (J)	26.2
3/2/2021		92.7					
3/3/2021	89.3		2.6	451 (o)	8.6	4.9	26.6
8/19/2021		86.5					
8/20/2021	84		2.9	18	8.9	5.4	24.7
2/8/2022				16.3	8.1	10.5	22.9
2/10/2022	81.8	86.5	2.4				
8/31/2022	85.9	90.2					
9/1/2022			2.5	13.5	7.6	13.4	21.2

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			1.2	1.8			
6/7/2016		4.4			<1	5.2	
7/27/2016		4.7	1.7	1.9	0.08 (J)		
7/28/2016						5.1	
8/30/2016	160						
9/16/2016		4.8		1.7			
9/19/2016			1.8		0.08 (J)	4.8	
11/2/2016					0.1 (J)		
11/3/2016		5.3	0.69 (J)	1.9		5	
11/14/2016	150						
1/11/2017		5.2	<1	1.7			
1/13/2017					<1	4.3	
2/24/2017	120						
3/1/2017			1.8	<1			
3/2/2017		5					
3/6/2017					<1	4.5	
4/26/2017			1.6	1.9	<1	4.9	
5/2/2017		5					
5/8/2017	120						
6/28/2017			<1	<1			
6/29/2017		5.2			<1	5.5	
7/11/2017	110						
10/3/2017						5.8	
10/4/2017		5.3		1.7	<1		
10/5/2017			1.6				
10/10/2017	93						
10/11/2017							20
11/20/2017							24
1/11/2018							23
2/20/2018							20.6
4/2/2018	88.8						
4/3/2018							24.5
6/5/2018						6.1	
6/6/2018					0.049 (J)		
6/7/2018			0.68 (J)				
6/11/2018		5.2		0.95 (J)			
6/28/2018							22
8/7/2018							20.7
9/19/2018	75						
9/24/2018							21.2
9/25/2018		6.1	1	1.5	0.13 (J)	7	
3/27/2019	65.9						17.7
4/2/2019		5.1				3.8	
4/3/2019			0.82 (J)	1.3	0.12 (J)		
9/24/2019						1	
9/25/2019		5.5			<1		
9/26/2019			0.64 (J)	1			
10/8/2019	52.3						
10/9/2019							15
3/17/2020	71.6						
3/24/2020		5.4	<1	0.99 (J)	<1	3	
3/25/2020							14.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	51.5						
9/23/2020		5.1	0.53 (J)	1.1			
9/24/2020					<1	3.6	11.7
3/1/2021	51.6						
3/3/2021		5.2	<1	1	<1		
3/4/2021						4.5	12
8/19/2021	52.6						
8/26/2021				1.2			19.2
8/27/2021		5.3	0.59 (J)		<1		
9/1/2021						5	
2/8/2022	50.9						14.6
2/9/2022		4.8	0.51 (J)	1.1	<1	3.9	
8/30/2022		4.7	0.78 (J)	1.3		3.2	
8/31/2022	48				<1		10.9

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		8	20	1.9	
7/26/2016		7.7	20	1.8	
8/31/2016					29
9/14/2016		7.5	19	1.8	
11/2/2016		8.2	20		
11/4/2016				2	
11/28/2016					36
1/12/2017			19	1.9	
1/13/2017		8.1			
2/22/2017					43
3/6/2017		8			
3/7/2017			20	2.1	
5/1/2017		8.4	20		
5/2/2017				2	
5/8/2017					60
6/27/2017			18	2.1	
6/29/2017		9.2			
7/17/2017					63
10/3/2017			16	2.3	
10/5/2017		9.6			
10/12/2017	17				
10/16/2017					62
11/20/2017	71				
1/10/2018	66				
2/19/2018	57.2				64.6
4/3/2018	49.4				
6/6/2018			8.3		
6/7/2018		8.5		2	
6/28/2018	43.8				
8/6/2018					42.1
8/7/2018	40.5				
9/24/2018	39.7				
9/26/2018		10.2	7.9	2.3	
2/25/2019					42.1
3/26/2019	34.3				
4/3/2019		8.5	7	2.1	
6/12/2019					83.4
9/24/2019			5.5	2.4	
9/25/2019		8.5			
10/8/2019					128
10/9/2019	27.9				
3/17/2020					98.6
3/24/2020	25.2		5.9	2.1	
3/25/2020		8.8			
9/22/2020		8.2	5.5	2.1	145
9/24/2020	22.9				
3/2/2021			2.6	2.3	156
3/3/2021		7.8			
3/4/2021	21.5				
8/20/2021					121
8/26/2021		8.5	6	2.4	
9/3/2021	21.3				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	17.9				107
2/10/2022			4.9	2.4	
2/11/2022		7.7			
8/30/2022			5.7	2.4	101
8/31/2022	17.9	8			

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.001	<0.001				<0.001
6/2/2016	<0.001				<0.001	<0.001	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		<0.001	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					<0.001	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		<0.001	<0.001			<0.001	
3/3/2017				<0.001			
3/8/2017	<0.001						
4/26/2017	<0.001				<0.001	<0.001	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		<0.001	5.5E-05 (J)				
2/11/2020				<0.001			<0.001
2/12/2020	8.9E-05 (J)				<0.001	<0.001	
3/18/2020	<0.001		<0.001				
3/19/2020		<0.001		<0.001	<0.001	<0.001	<0.001
9/23/2020		<0.001	<0.001	<0.001		<0.001	0.00016 (J)
9/24/2020					<0.001		
9/25/2020	<0.001						
2/10/2021	<0.001			<0.001		<0.001	<0.001
2/11/2021					<0.001		
2/12/2021		<0.001	<0.001				
2/9/2022		<0.001	<0.001	<0.001		<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	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001	0.00012 (J)			
6/9/2016					<0.001	<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001	0.0001 (J)			
8/2/2016					<0.001	<0.001	<0.001
9/20/2016	<0.001	<0.001	<0.001	<0.001			
9/21/2016					<0.001	<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
11/8/2016					<0.001		
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			<0.001
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		<0.001
2/23/2017			<0.001				
5/3/2017		<0.001					
5/5/2017					<0.001	<0.001	
5/8/2017	<0.001		<0.001	0.0001 (J)			<0.001
6/30/2017			<0.001	0.0001 (J)			
7/5/2017					<0.001		<0.001
7/7/2017						<0.001	
7/10/2017	<0.001	<0.001					
3/29/2018			<0.001	<0.001			<0.001
3/30/2018	<0.001	<0.001			<0.001	<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	5.7E-05 (J)	<0.001	0.0001 (J)	<0.001	<0.001	<0.001
3/19/2020		5.5E-05 (J)			<0.001	<0.001	
3/20/2020	<0.001		<0.001	0.00011 (J)			<0.001
9/24/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2021	<0.001	<0.001	<0.001	<0.001			
2/11/2021					<0.001		
2/12/2021						<0.001	<0.001
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				
8/31/2022	<0.001	<0.001					
9/1/2022			<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.001	<0.001			
6/7/2016		<0.001			<0.001	<0.001	
7/27/2016		<0.001	<0.001	<0.001	<0.001		
7/28/2016						<0.001	
8/30/2016	<0.001						
9/16/2016		<0.001		<0.001			
9/19/2016			<0.001		<0.001	<0.001	
11/2/2016					<0.001		
11/3/2016		<0.001	<0.001	<0.001		<0.001	
11/14/2016	<0.001						
1/11/2017		<0.001	<0.001	<0.001			
1/13/2017					<0.001	<0.001	
2/24/2017	<0.001						
3/1/2017			<0.001	<0.001			
3/2/2017		<0.001					
3/6/2017					<0.001	<0.001	
4/26/2017			<0.001	<0.001	<0.001	<0.001	
5/2/2017		<0.001					
5/8/2017	<0.001						
6/28/2017			<0.001	<0.001			
6/29/2017		<0.001			<0.001	<0.001	
7/11/2017	<0.001						
10/10/2017	<0.001						
10/11/2017							<0.001
11/20/2017							<0.001
1/11/2018							<0.001
2/20/2018							<0.001
3/28/2018		<0.001	<0.001	<0.001			
3/29/2018					<0.001	<0.001	
4/2/2018	<0.001						
4/3/2018							<0.001
6/28/2018							<0.001
8/7/2018							<0.001
9/19/2018	<0.001						
9/24/2018							<0.001
9/25/2018						<0.001	
3/5/2019		<0.001		<0.001	<0.001	<0.001	
3/6/2019			<0.001				
4/2/2019		<0.001				<0.001	
4/3/2019			<0.001	<0.001	<0.001		
8/20/2019	5.8E-05 (J)						
8/21/2019							<0.001
9/24/2019						<0.001	
9/25/2019		<0.001			<0.001		
9/26/2019			<0.001	<0.001			
10/8/2019	8.4E-05 (J)						
2/11/2020		<0.001	<0.001	<0.001			
2/12/2020					<0.001	<0.001	<0.001
3/17/2020	<0.001						
3/24/2020		<0.001	<0.001	<0.001	<0.001	<0.001	
3/25/2020							<0.001
8/27/2020	<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/23/2020		<0.001	<0.001	<0.001			
9/24/2020					<0.001	<0.001	<0.001
2/9/2021			<0.001	<0.001	<0.001	<0.001	
2/10/2021							<0.001
8/19/2021	<0.001						
2/8/2022	<0.001						<0.001
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001	
8/30/2022		<0.001	<0.001	<0.001		<0.001	
8/31/2022	<0.001				<0.001		<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		<0.001	<0.001	<0.001	
7/26/2016		<0.001	<0.001	<0.001	
8/31/2016					<0.001
9/14/2016		<0.001	<0.001	<0.001	
11/2/2016		<0.001	<0.001		
11/4/2016				<0.001	
11/28/2016					<0.001
1/12/2017			<0.001	<0.001	
1/13/2017		<0.001			
2/22/2017					<0.001
3/6/2017		<0.001			
3/7/2017			<0.001	<0.001	
5/1/2017		<0.001	<0.001		
5/2/2017				<0.001	
5/8/2017					6E-05 (J)
6/27/2017			<0.001	<0.001	
6/29/2017		<0.001			
7/17/2017					6E-05 (J)
10/12/2017	<0.001				
10/16/2017					7E-05 (J)
11/20/2017	<0.001				
1/10/2018	<0.001				
2/19/2018	<0.001				<0.001
3/29/2018		<0.001	<0.001	<0.001	
4/3/2018	<0.001				
6/28/2018	<0.001				
8/6/2018					<0.001
8/7/2018	<0.001				
9/24/2018	<0.001				
2/25/2019					<0.001
3/4/2019		<0.001	<0.001	<0.001	
4/3/2019		<0.001	<0.001	<0.001	
6/12/2019					<0.001
8/19/2019					5.5E-05 (J)

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	<0.001				
9/24/2019			<0.001	<0.001	
9/25/2019		<0.001			
10/8/2019					<0.001
2/12/2020	<0.001	<0.001	<0.001	<0.001	
3/17/2020					<0.001
3/24/2020	<0.001		<0.001	<0.001	
3/25/2020		<0.001			
8/26/2020					<0.001
9/22/2020		<0.001	<0.001	<0.001	<0.001
9/24/2020	<0.001				
2/8/2021			<0.001	<0.001	
2/9/2021		<0.001			
2/10/2021	<0.001				
3/2/2021					<0.001
8/20/2021					<0.001
2/8/2022	<0.001				<0.001
2/10/2022			<0.001	<0.001	
2/11/2022		<0.001			
8/30/2022			<0.001	<0.001	<0.001
8/31/2022	<0.001	<0.001			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		120	54				150
6/2/2016	46				36	130	
7/25/2016			48		50		135
7/26/2016	54	94				141	
9/13/2016		105	67				
9/14/2016				152			127
9/15/2016	54					153	
9/19/2016					35		
11/1/2016		44			<25	92	75
11/2/2016	71						
11/4/2016			60	148			
12/15/2016				191			
1/10/2017	45						
1/11/2017		107				159	148
1/16/2017			65	180	47		
2/21/2017					<25		
3/1/2017							182
3/2/2017		98	61			117	
3/3/2017				156			
3/8/2017	178						
4/26/2017	52				55	181	92
4/27/2017		116	31				
4/28/2017				130			
5/26/2017				223			
6/27/2017		89	42				
6/28/2017				166		169	126
6/30/2017	45				42		
10/3/2017		119	58	153			
10/4/2017					31	141	147
10/5/2017	40						
6/5/2018		127					
6/6/2018			96				
6/7/2018				146		95	
6/8/2018	114						158
6/11/2018					59		
10/1/2018	50	117	60	155		165	138
10/2/2018					57		
3/28/2019		87	87				
3/29/2019	63			150			
4/1/2019					54	149	19 (J)
9/24/2019		124	54	146			
9/25/2019	64				51	157	159
3/18/2020	57		35				
3/19/2020		116		148	47	146	148
9/23/2020		108	15	161		157	155
9/24/2020					51		
9/25/2020	54						
3/1/2021					23		
3/2/2021	67						
3/3/2021		99	39	138		137	111
8/19/2021	54	105	44		50	144	
8/27/2021				150			155

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		105	57	156		154	145
2/10/2022	56						
2/11/2022					66		
8/30/2022		116		153			
8/31/2022	51		46		33	141	137

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	220	200	190	210			
6/9/2016					240	210	150
8/1/2016	211	191	191	209			
8/2/2016					226	202	155
9/20/2016	217	213	205	224			
9/21/2016					214	216	138
11/7/2016	301	284	264	291		399	291
11/8/2016					229		
1/18/2017	265 (D)	158 (D)	167 (D)		243 (D)	215 (D)	
1/19/2017				215 (D)			145 (D)
2/21/2017	158	137				198	
2/22/2017				262	310		185
2/23/2017			253				
5/3/2017		269					
5/5/2017					289	347	
5/8/2017	207		174	187			114
6/30/2017			193	209			
7/5/2017					217		136
7/7/2017						236	
7/10/2017	219	183					
10/5/2017					221		139
10/6/2017				183			
10/9/2017			185			204	
10/10/2017	194	179					
6/11/2018							156
6/12/2018				208	234	243	
6/13/2018	228	196	219				
10/2/2018	227	191	227	206			154
10/3/2018					232	237	
4/1/2019			198	221	238		147
4/2/2019	223	224				<25	
9/25/2019	225	190					162
9/26/2019			198	225	241	239	
3/19/2020		194			212	202	
3/20/2020	211		195	182			137
9/24/2020	212	171	186	185	209	226	133
3/2/2021		154					
3/3/2021	205		173	178	184	217	110
8/19/2021		176					
8/20/2021	224		196	169	194	192	110
2/8/2022				159	206	216	120
2/10/2022	207	168	190				
8/31/2022	228	206					
9/1/2022			193	124	186	225	128

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			120	58			
6/7/2016		28			38	60	
7/27/2016		74	94	35	74		
7/28/2016						81	
8/30/2016	319						
9/16/2016		67		35			
9/19/2016			92		45	68	
11/2/2016					53		
11/3/2016		41	104	48		61	
11/14/2016	280						
1/11/2017		104	133	95			
1/13/2017					46	76	
2/24/2017	162						
3/1/2017			119	79			
3/2/2017		77					
3/6/2017					164	167	
4/26/2017			162	36	34	50	
5/2/2017		142					
5/8/2017	194						
6/28/2017			98	45			
6/29/2017		53			68	94	
7/11/2017	193						
10/3/2017						149	
10/4/2017		61		45	54		
10/5/2017			104				
10/10/2017	175						
10/11/2017							68
11/20/2017							139
1/11/2018							153
2/20/2018							87
4/2/2018	192						
4/3/2018							85
6/5/2018						109	
6/6/2018					79		
6/7/2018			68				
6/11/2018		70		74			
6/28/2018							88
8/7/2018							89
9/19/2018	186						
9/24/2018							82
9/25/2018		86	109	63	73	122	
3/27/2019	170						75
4/2/2019		72				134	
4/3/2019			89	63	57		
9/24/2019						157	
9/25/2019		81			75		
9/26/2019			126	72			
10/8/2019	172						
10/9/2019							119
3/17/2020	165						
3/24/2020		71	91	59	76	117	
3/25/2020							158

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	141						
9/23/2020		99	103	81			
9/24/2020					69	113	170
3/1/2021	145						
3/3/2021		57	95	37	53		
3/4/2021						110	168
8/19/2021	134						
8/26/2021				31			249
8/27/2021		93	112		67		
9/1/2021						137	
2/8/2022	151						248
2/9/2022		81	103	60	72	131	
8/30/2022		81	100	52		122	
8/31/2022	116				62		242

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/13/2022 3:44 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		96	160	66	
7/26/2016		92	177	78	
8/31/2016					209
9/14/2016		102	187	73	
11/2/2016		115	181		
11/4/2016				75	
11/28/2016					102
1/12/2017			202	86	
1/13/2017		67			
2/22/2017					164
3/6/2017		159			
3/7/2017			257	108	
5/1/2017		107	165		
5/2/2017				103	
5/8/2017					145
6/27/2017			189	73	
6/29/2017		79			
7/17/2017					185
10/3/2017			170	89	
10/5/2017		95			
10/12/2017	74				
10/16/2017					218
11/20/2017	179				
1/10/2018	140				
2/19/2018	119				173
4/3/2018	106				
6/6/2018			151		
6/7/2018		90		142	
6/28/2018	112				
8/6/2018					158
8/7/2018	103				
9/24/2018	107				
9/26/2018		116	144	86	
2/25/2019					92
3/26/2019	90				
4/3/2019		111	142	83	
6/12/2019					226
9/24/2019			129	79	
9/25/2019		117			
10/8/2019					276
10/9/2019	98				
3/17/2020					185
3/24/2020	84		139	68	
3/25/2020		146			
9/22/2020		83	104	75	281
9/24/2020	77				
3/2/2021			52	67	296
3/3/2021		80			
3/4/2021	57				
8/20/2021					254
8/26/2021		93	123	86	
9/3/2021	88				

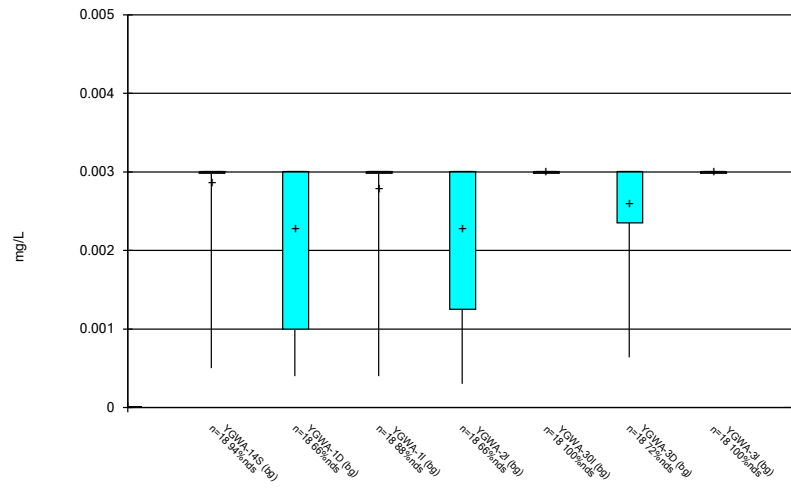
Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
2/8/2022	93				283
2/10/2022			127	77	
2/11/2022		102			
8/30/2022			148	86	244
8/31/2022	92	92			

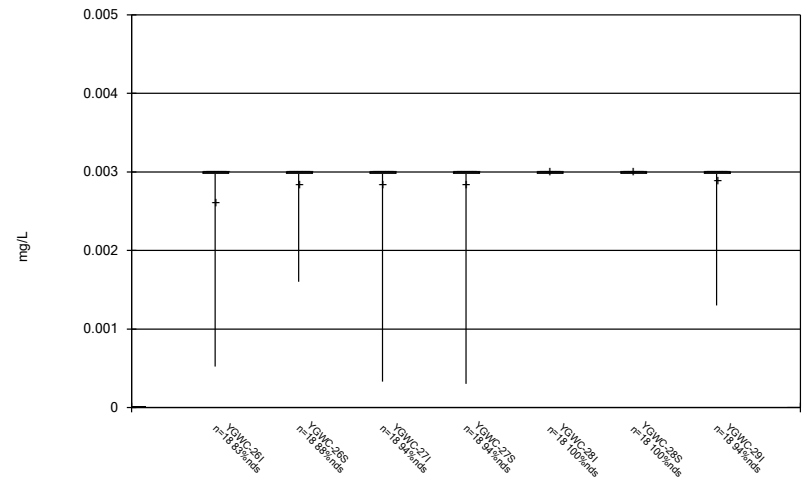
FIGURE B.

Box & Whiskers Plot



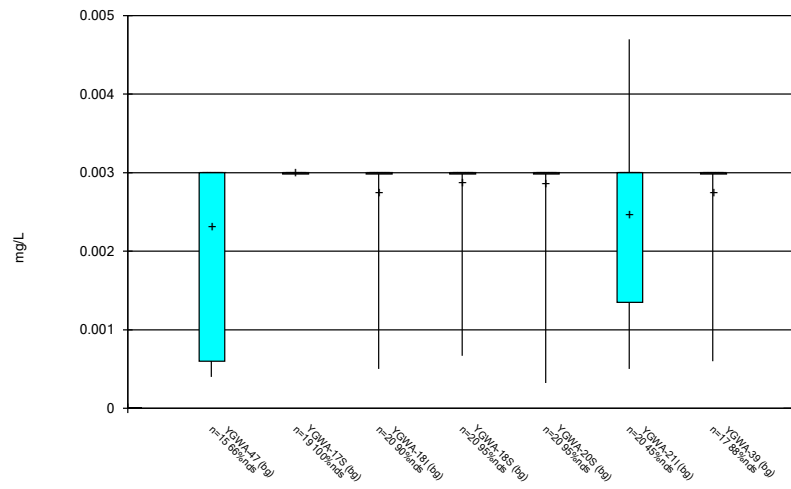
Constituent: Antimony Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



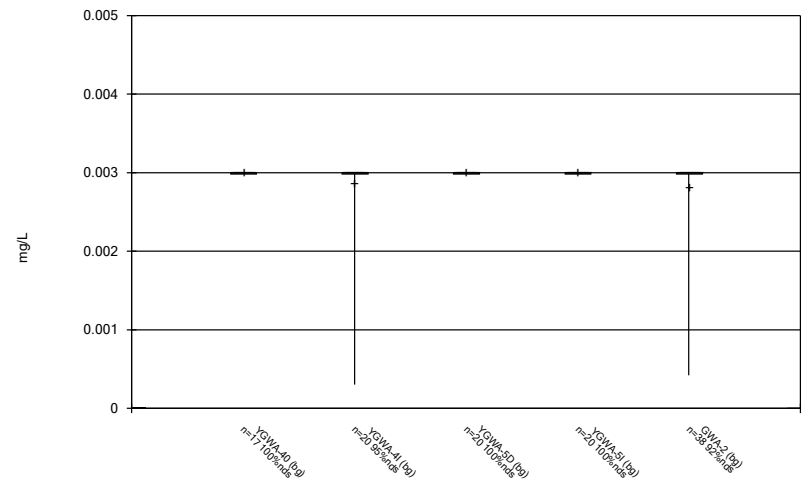
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



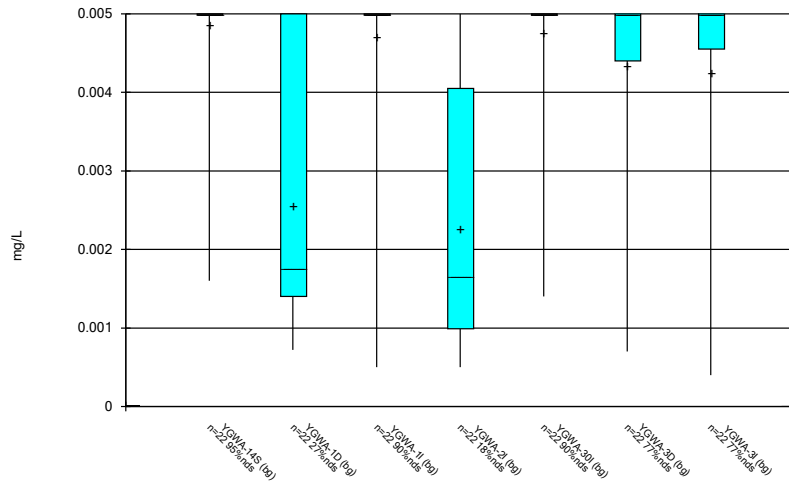
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



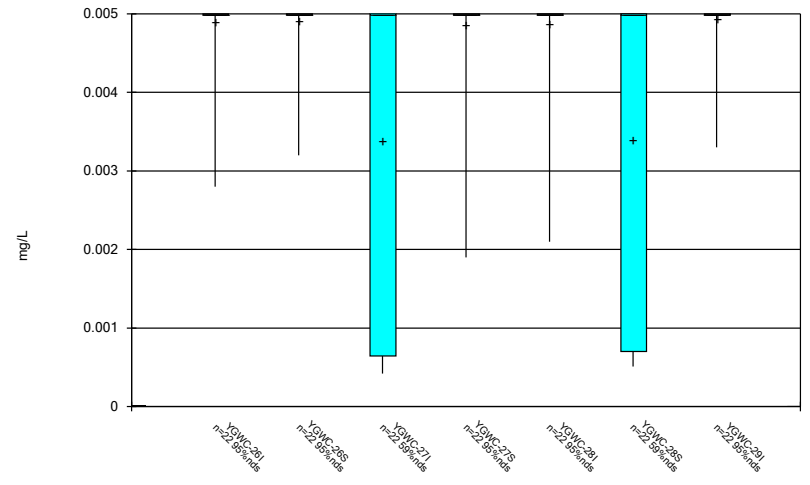
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



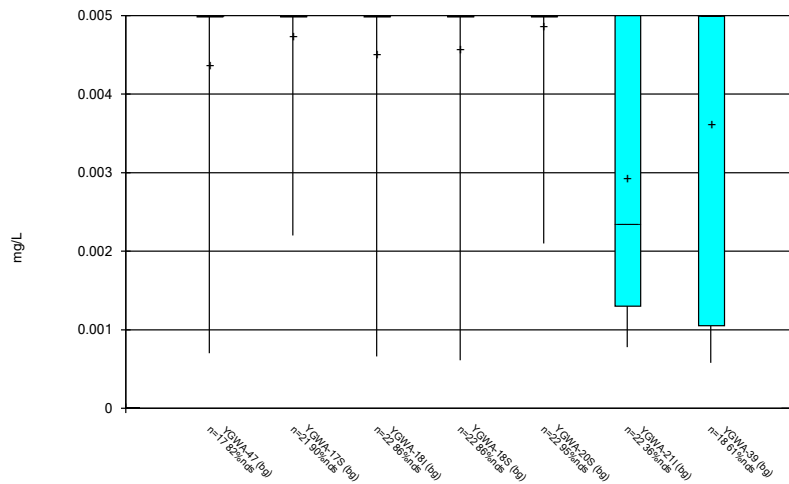
Constituent: Arsenic Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



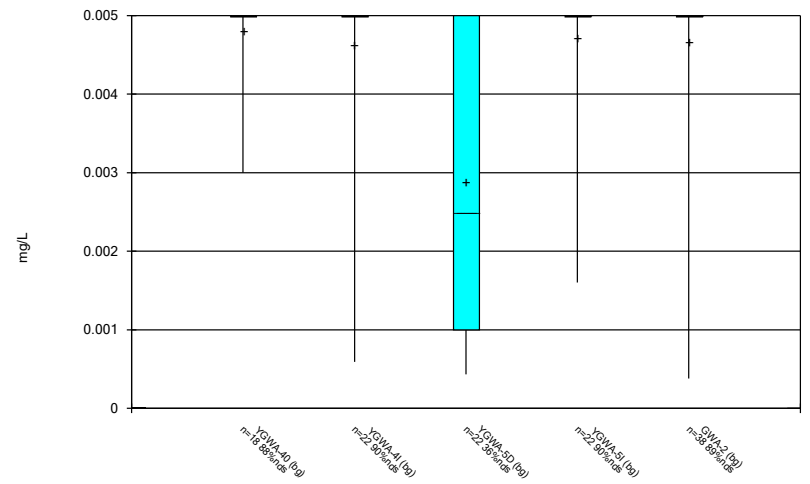
Constituent: Arsenic Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



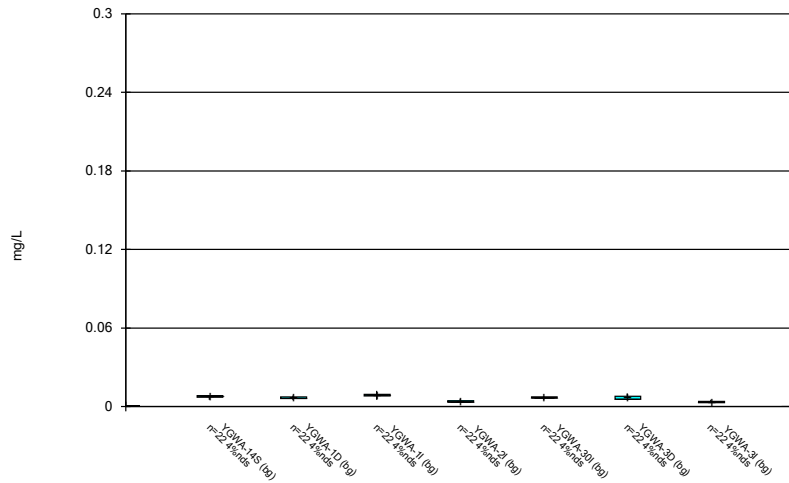
Constituent: Arsenic Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



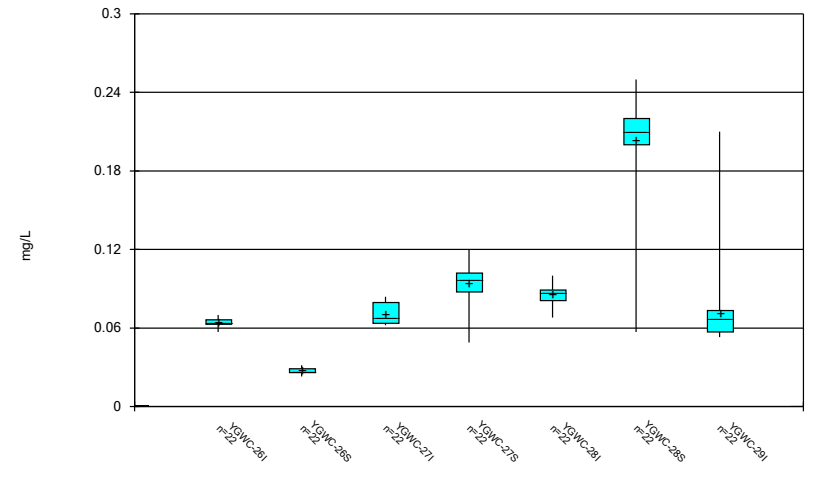
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



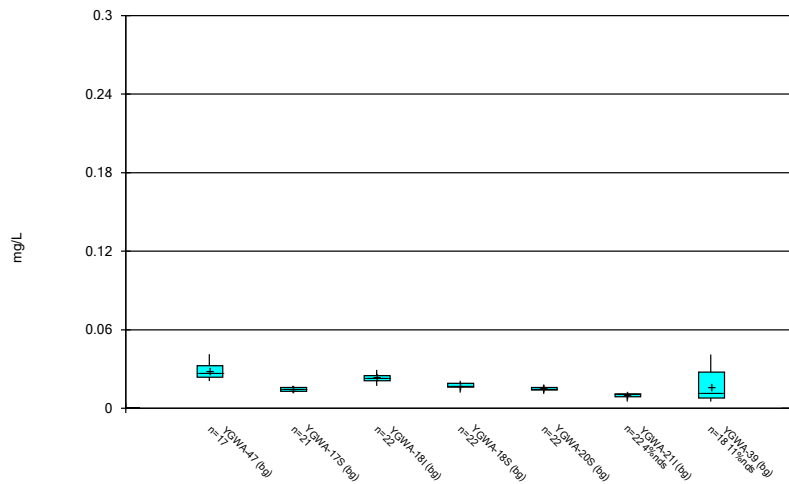
Constituent: Barium Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



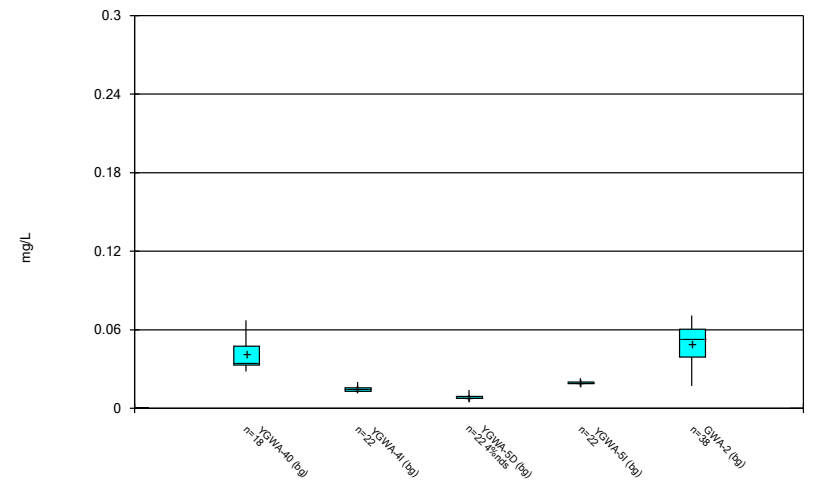
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



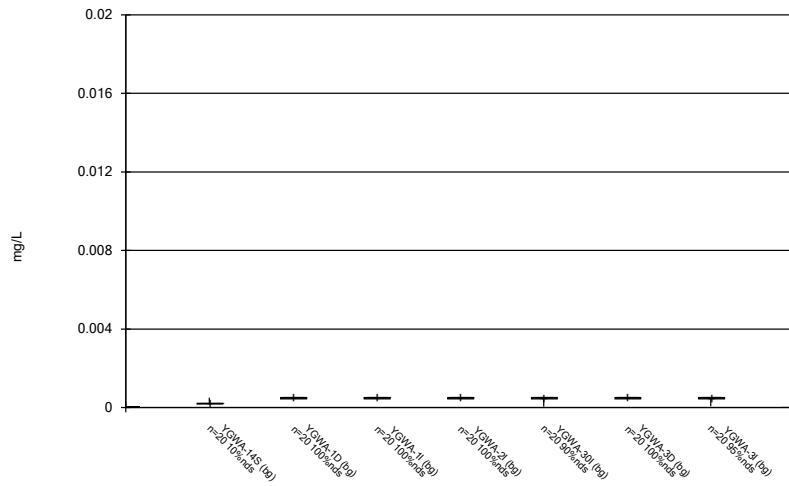
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



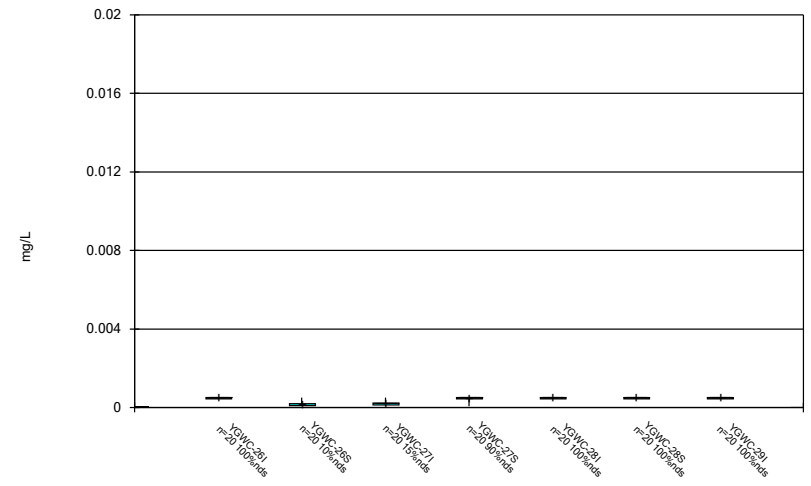
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



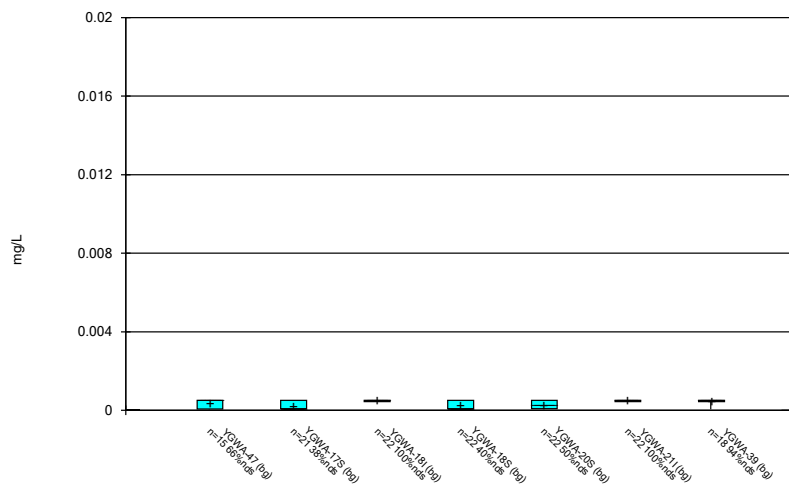
Constituent: Beryllium Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



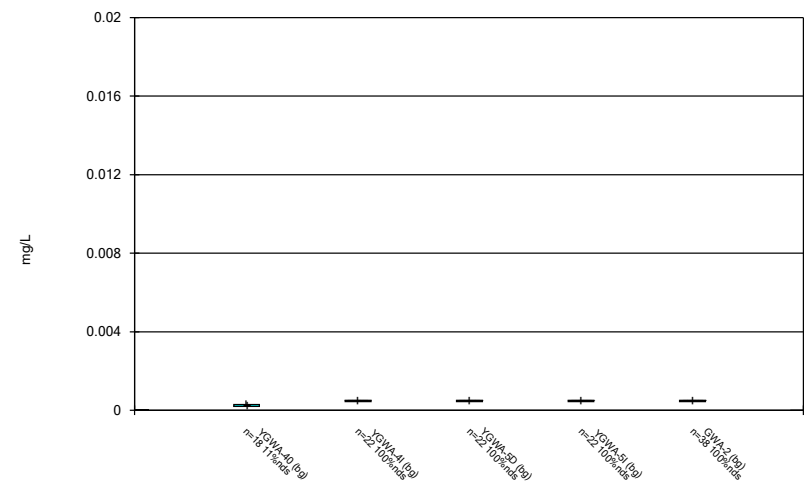
Constituent: Beryllium Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



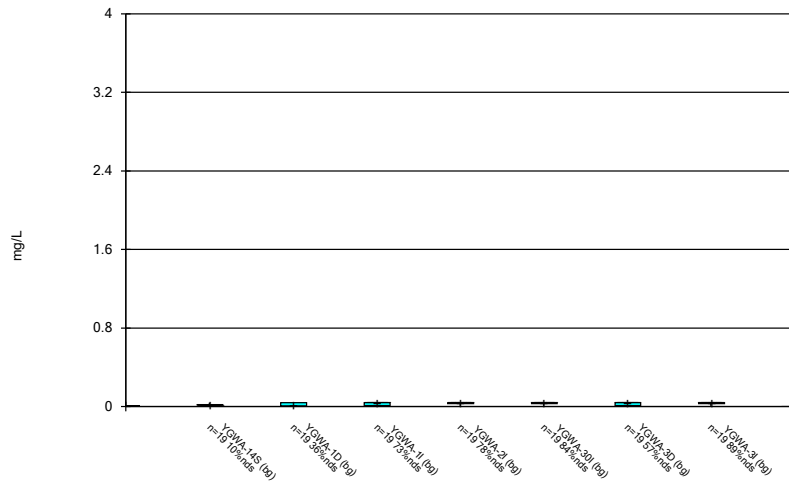
Constituent: Beryllium Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



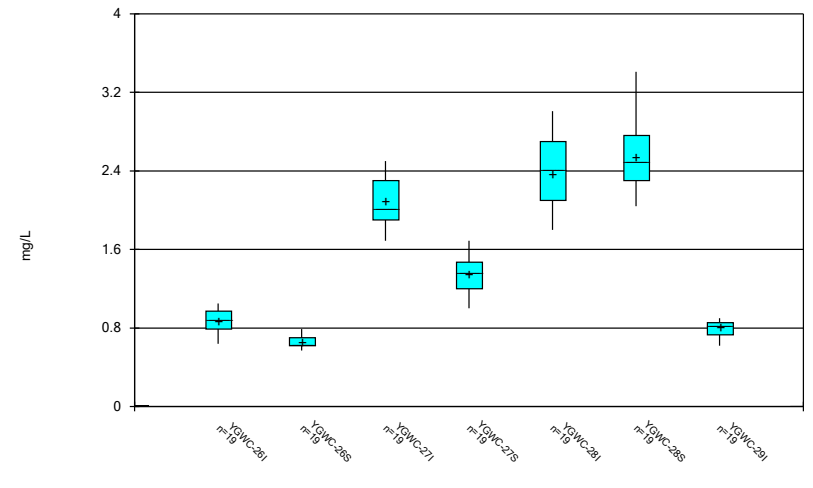
Constituent: Beryllium Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



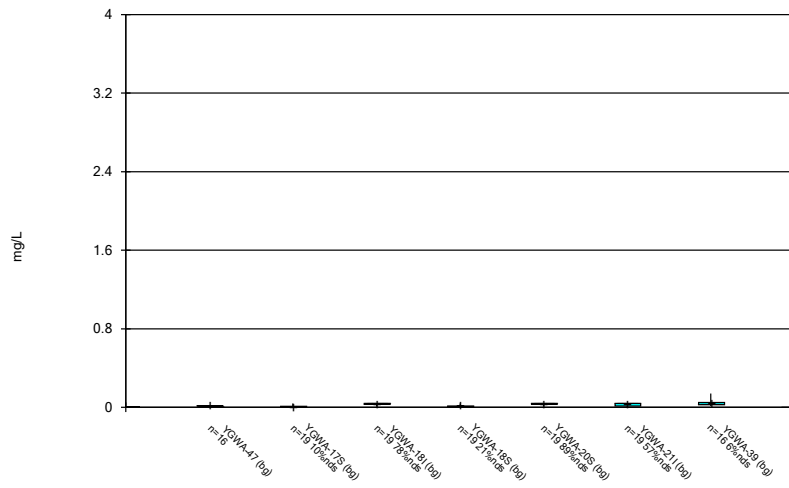
Constituent: Boron Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



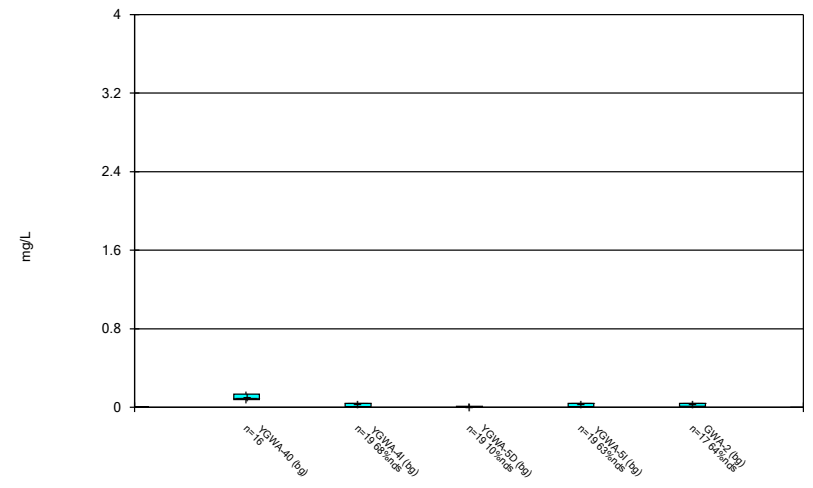
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



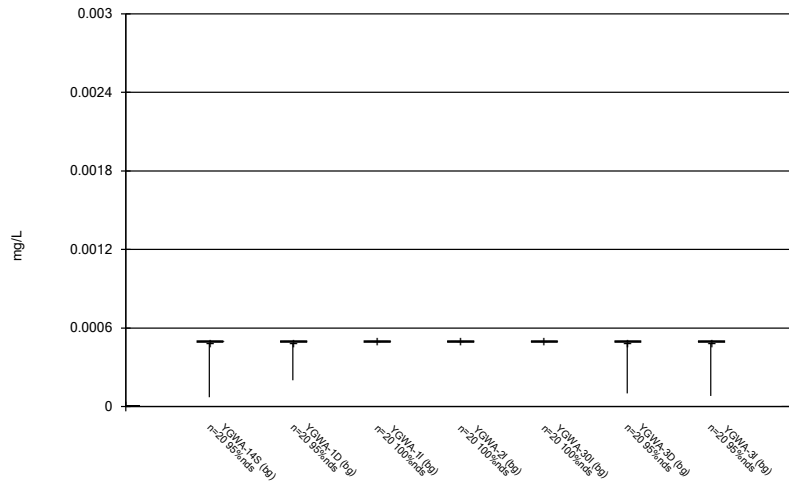
Constituent: Boron Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



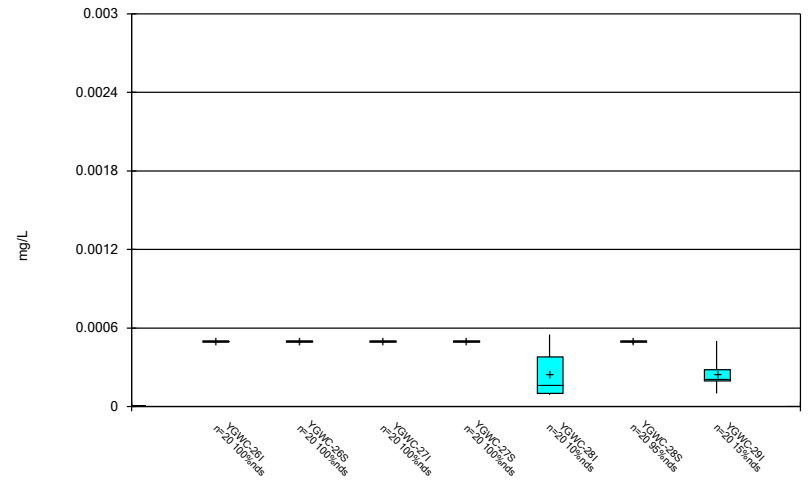
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



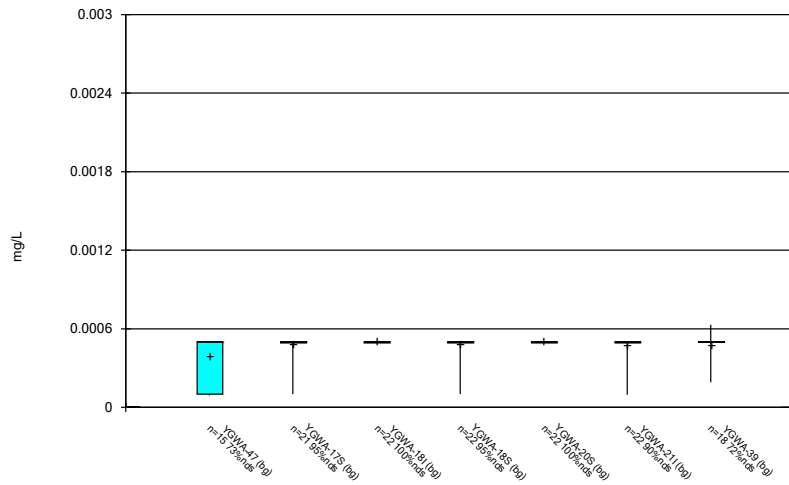
Constituent: Cadmium Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



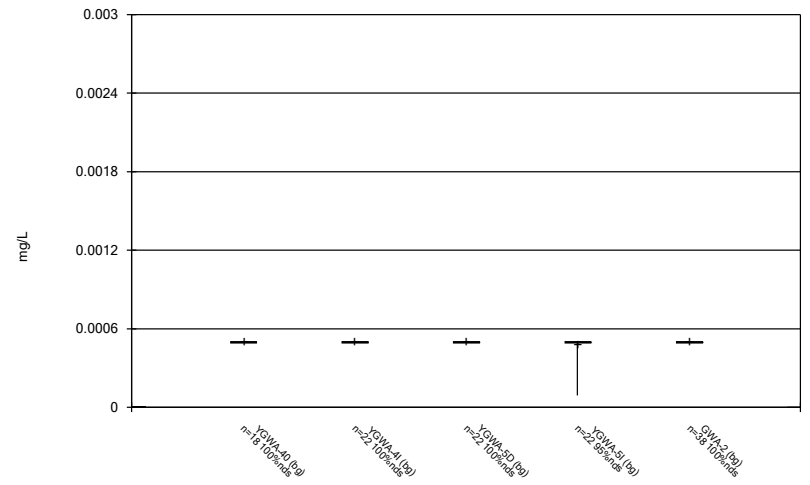
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



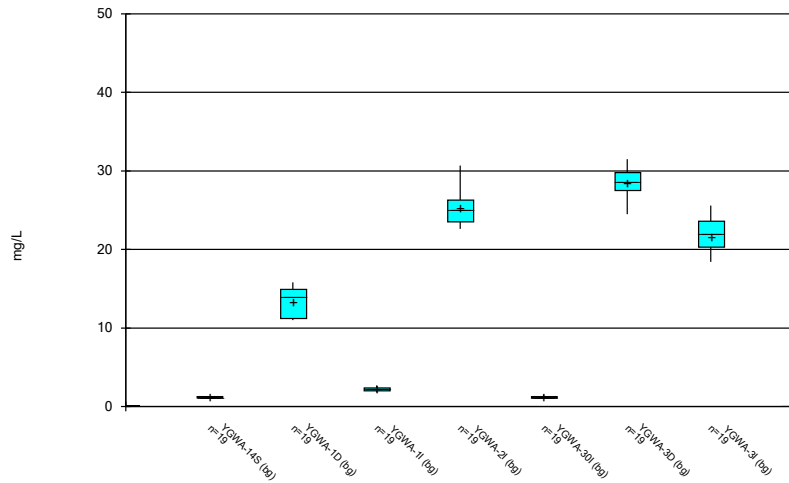
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



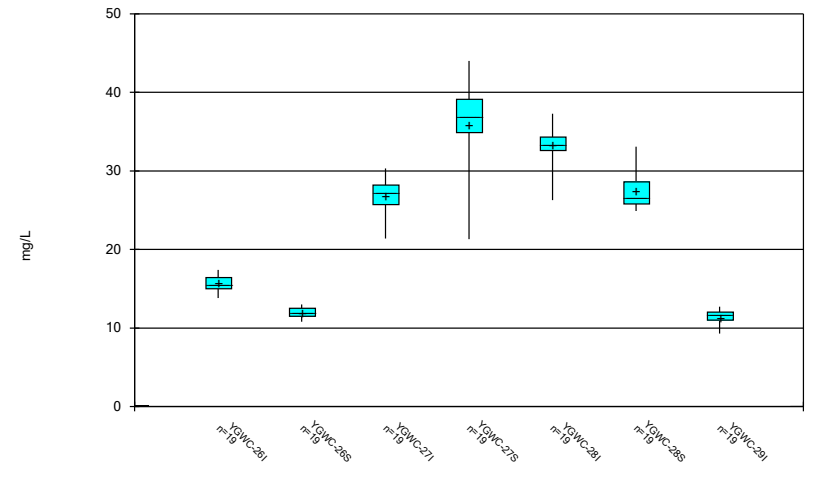
Constituent: Cadmium Analysis Run 10/13/2022 3:44 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



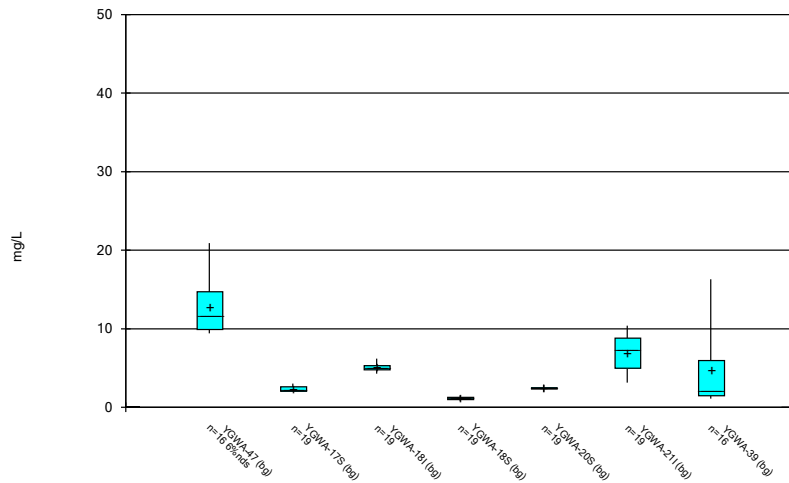
Constituent: Calcium Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



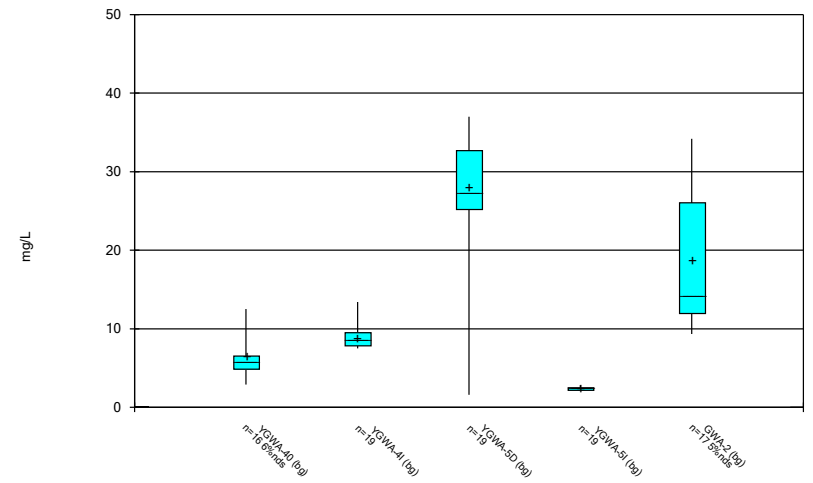
Constituent: Calcium Analysis Run 10/13/2022 3:44 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



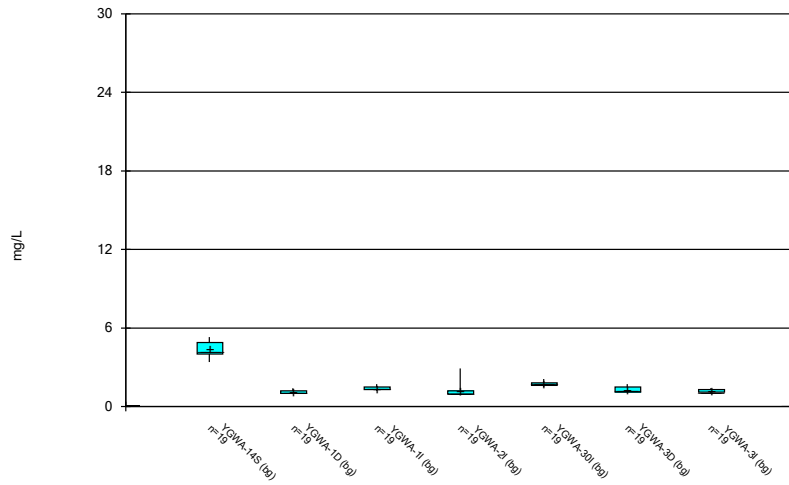
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Box & Whiskers Plot



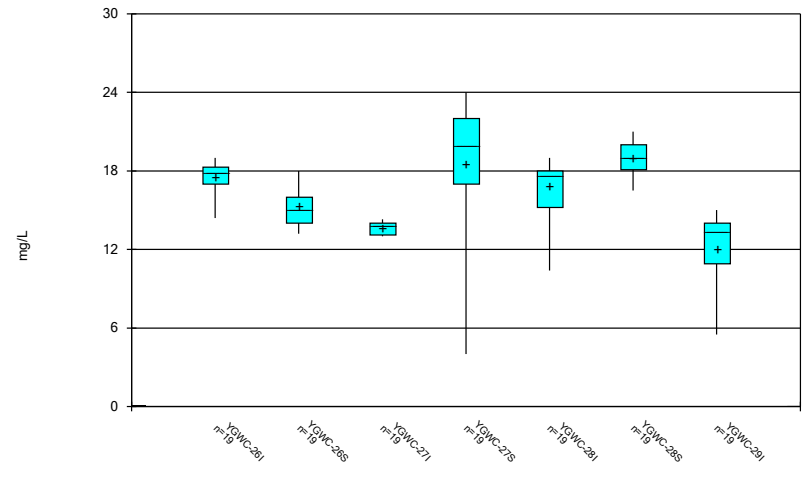
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Box & Whiskers Plot



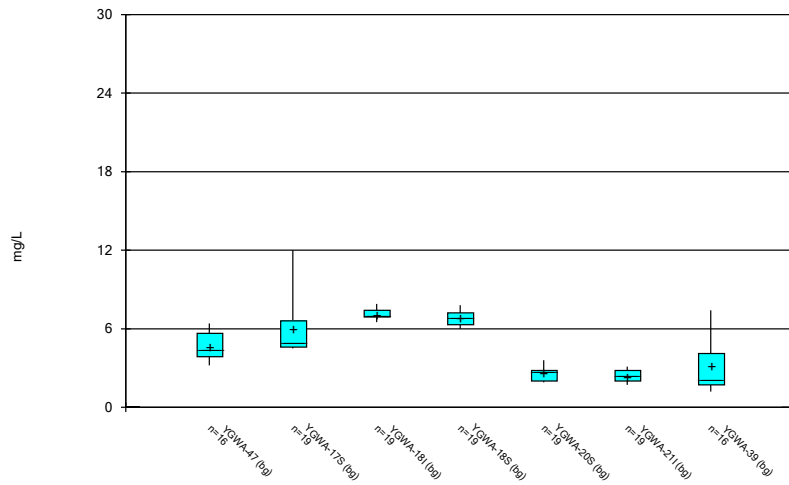
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Box & Whiskers Plot



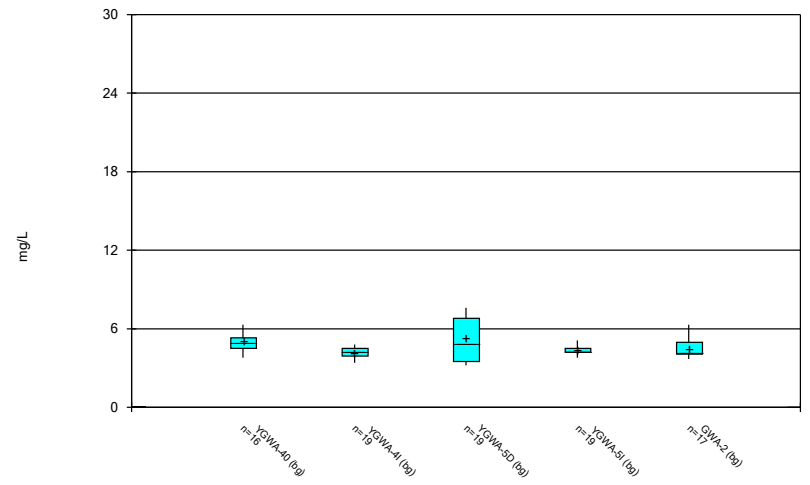
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Box & Whiskers Plot



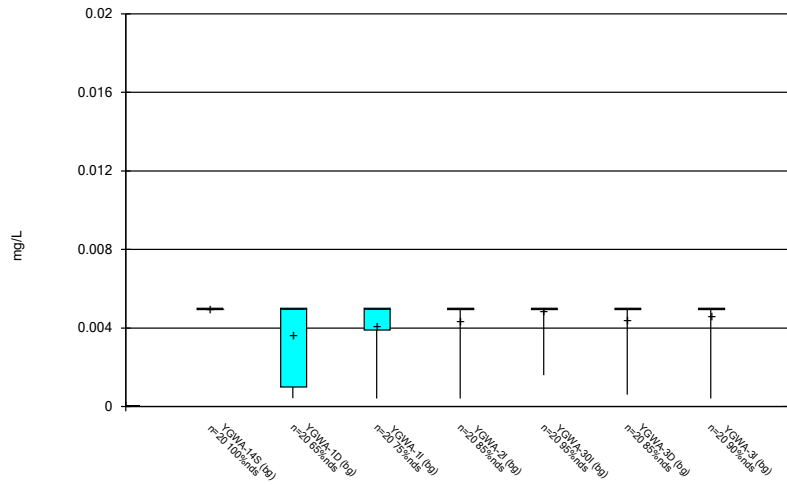
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Box & Whiskers Plot



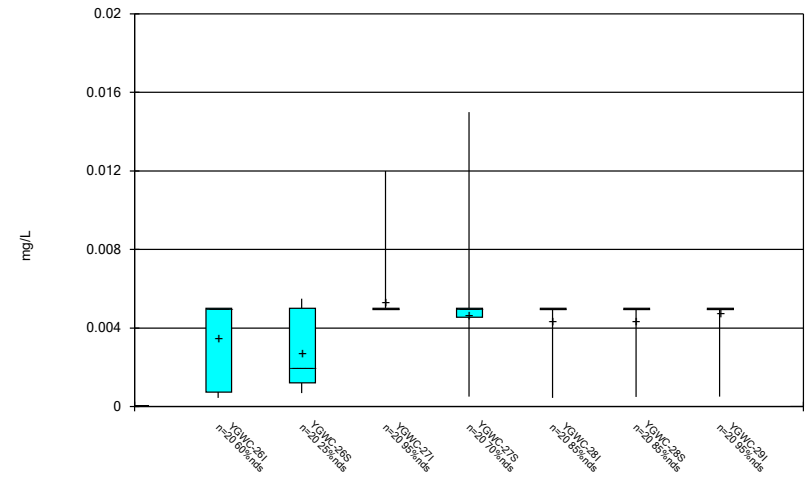
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Box & Whiskers Plot



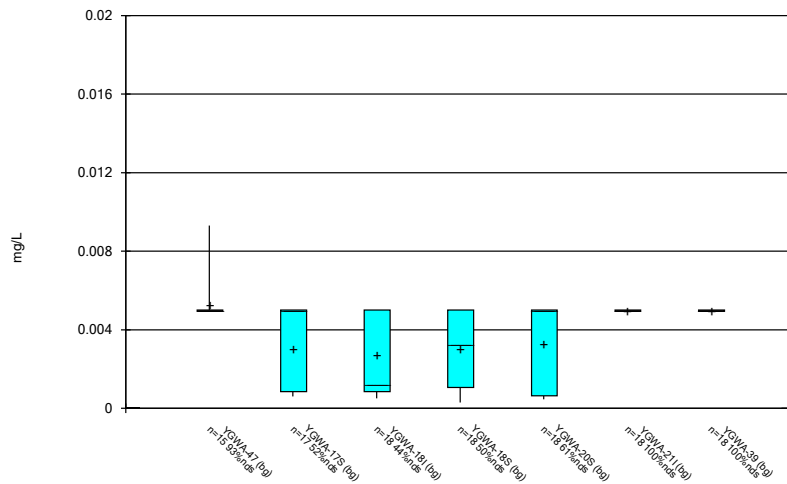
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Box & Whiskers Plot



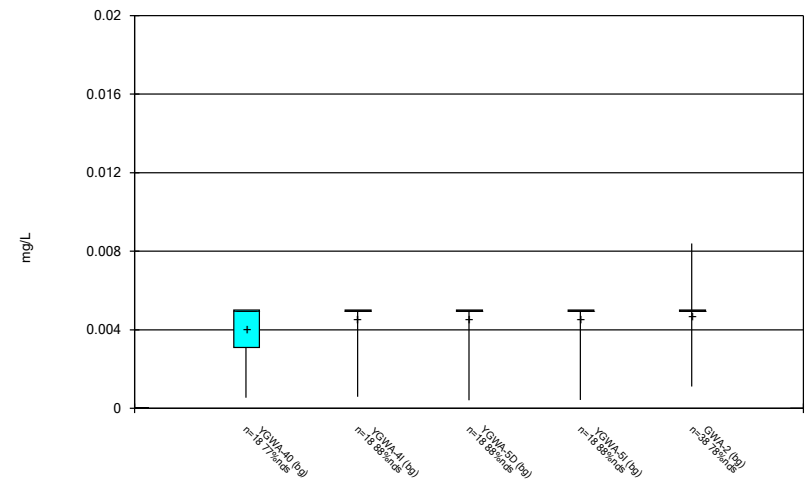
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Box & Whiskers Plot



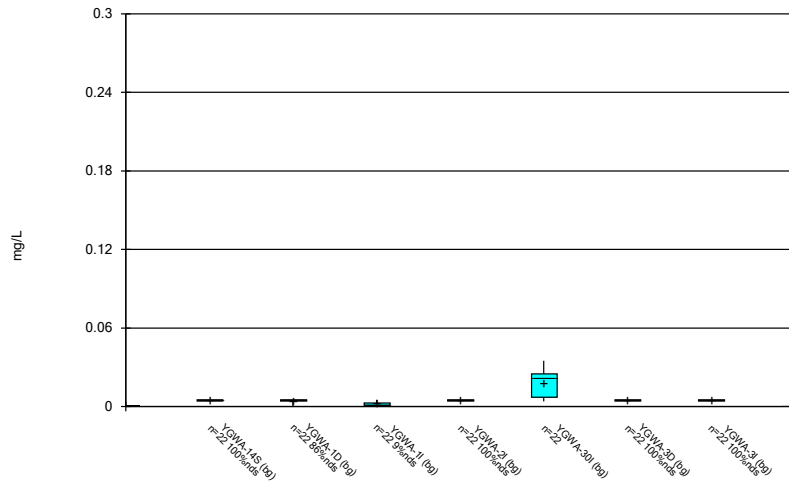
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Box & Whiskers Plot



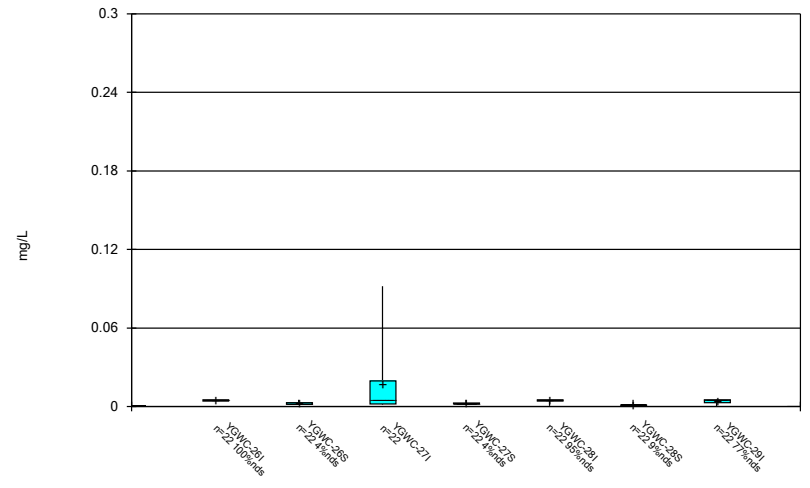
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Box & Whiskers Plot



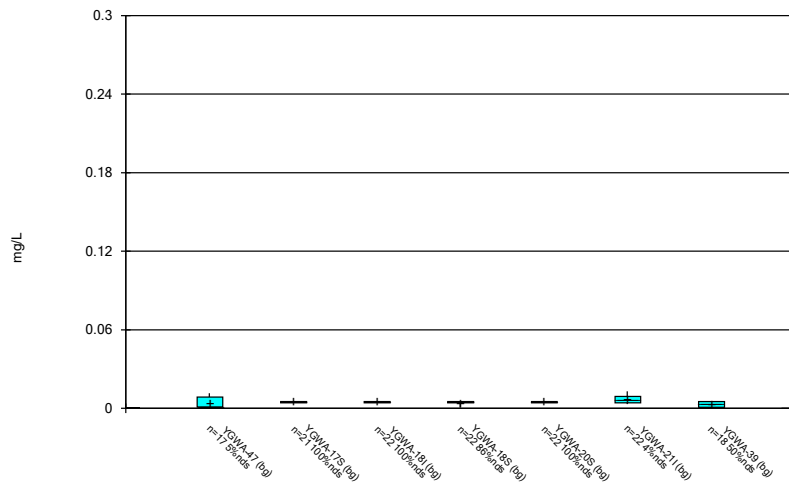
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Box & Whiskers Plot



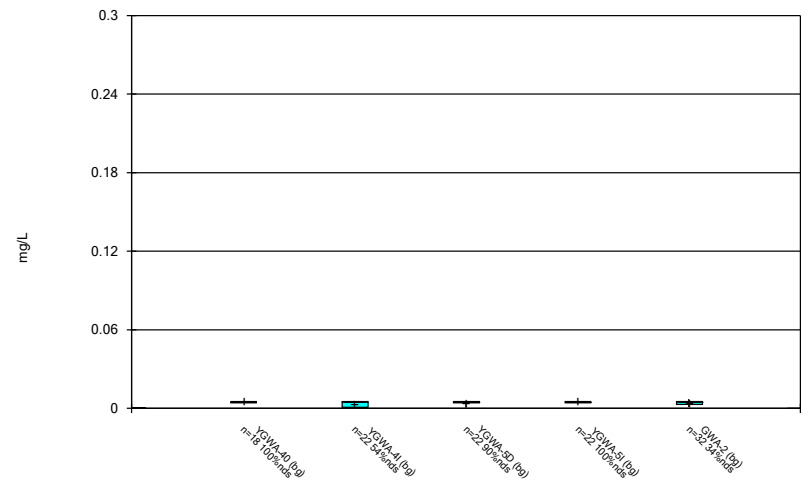
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Box & Whiskers Plot



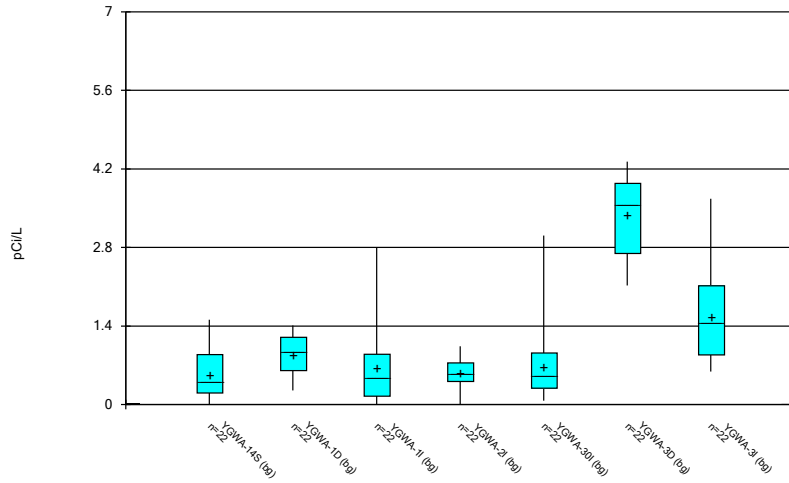
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Box & Whiskers Plot



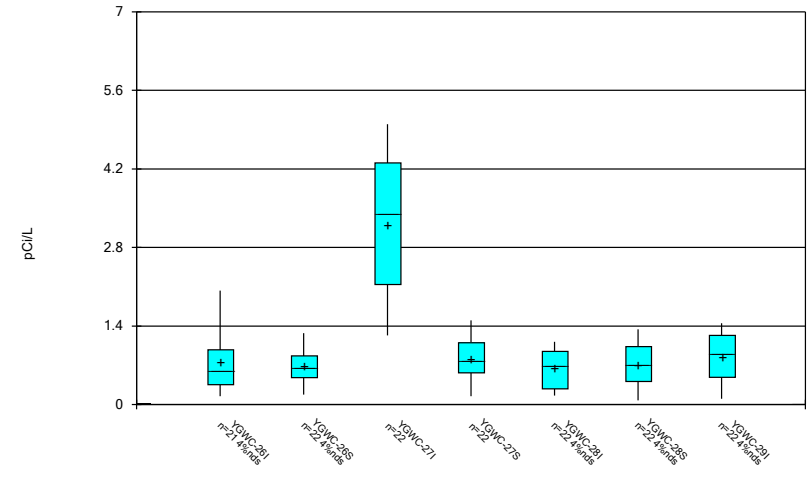
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Box & Whiskers Plot



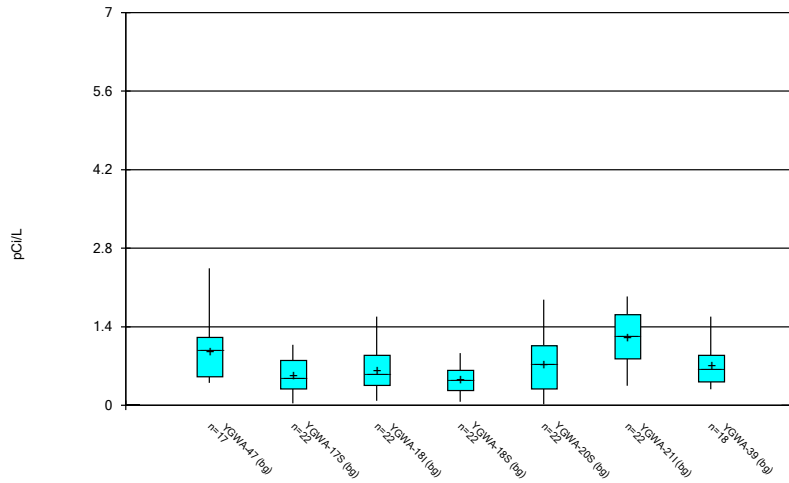
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Box & Whiskers Plot



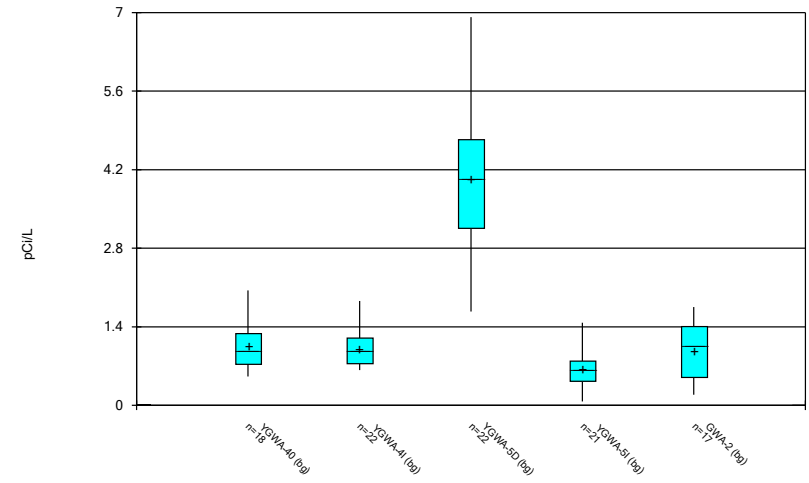
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Box & Whiskers Plot



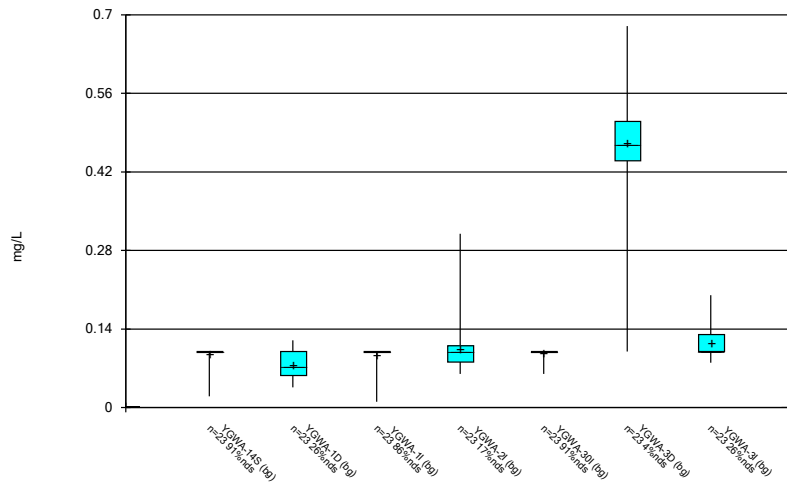
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Box & Whiskers Plot



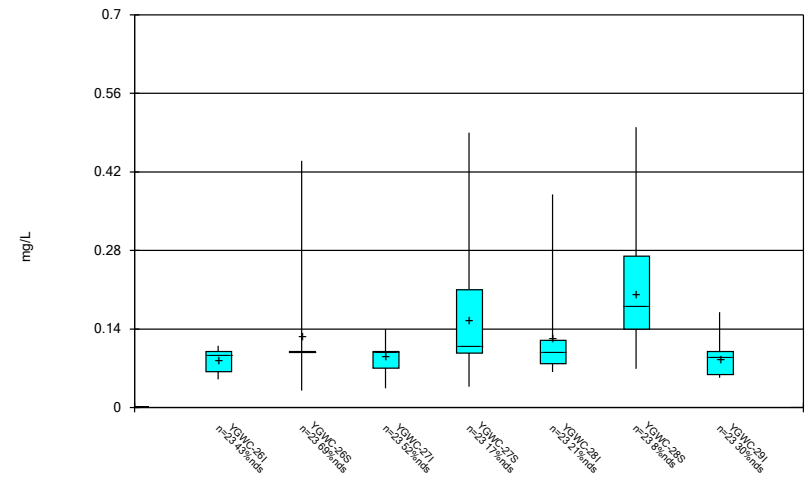
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Box & Whiskers Plot



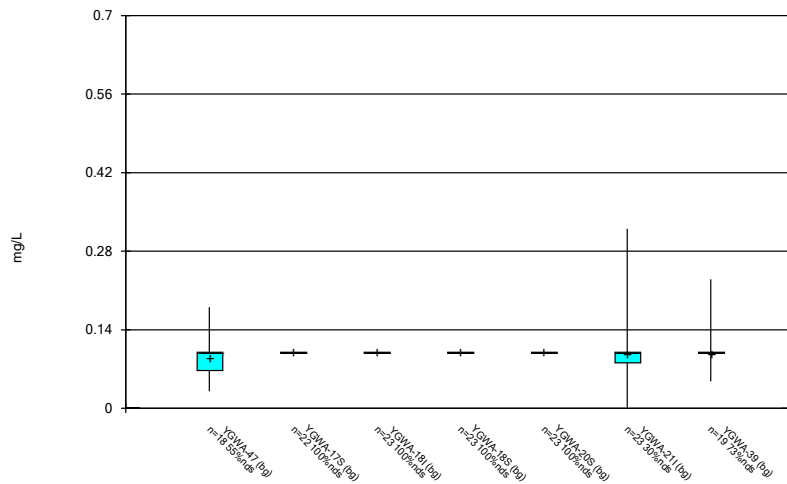
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Box & Whiskers Plot



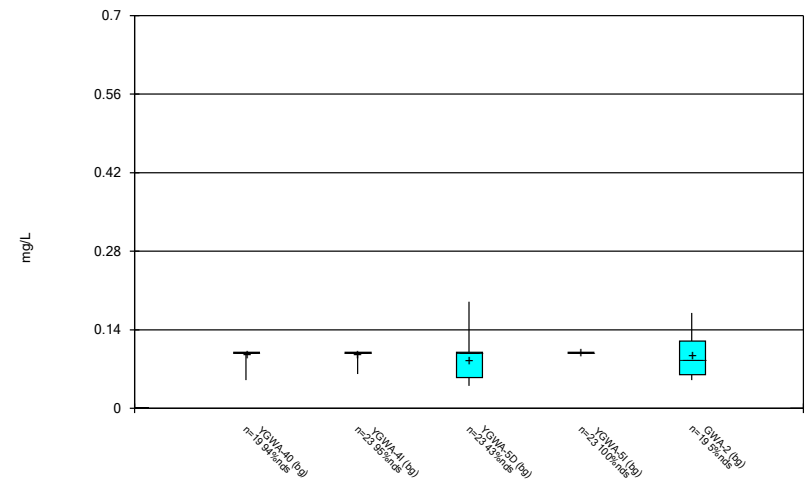
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Box & Whiskers Plot



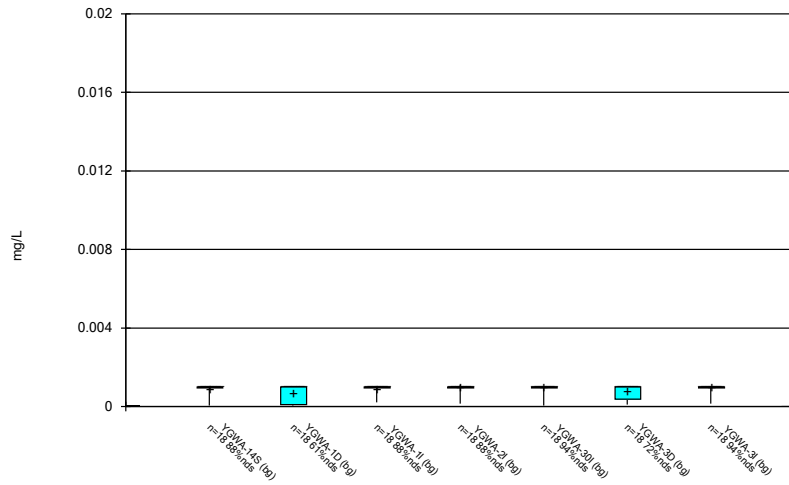
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Box & Whiskers Plot



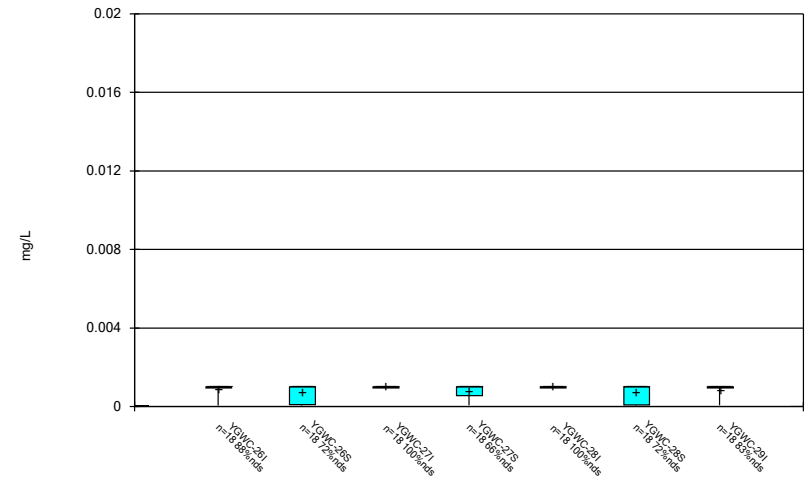
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Box & Whiskers Plot



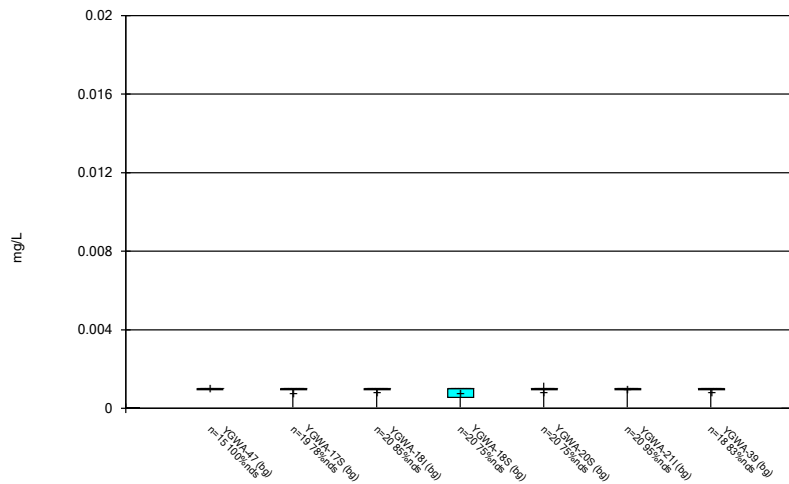
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Box & Whiskers Plot



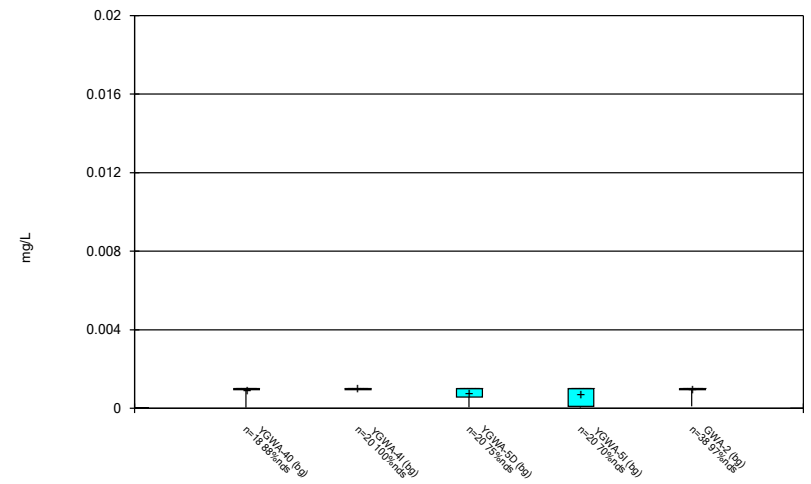
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Box & Whiskers Plot



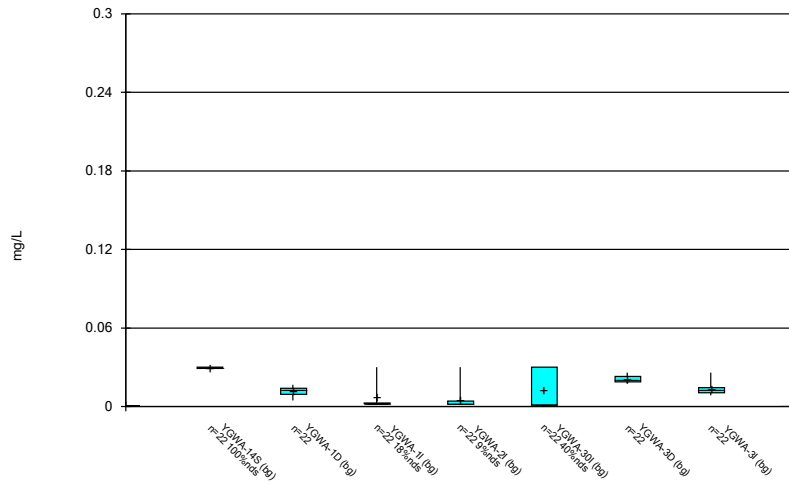
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Box & Whiskers Plot



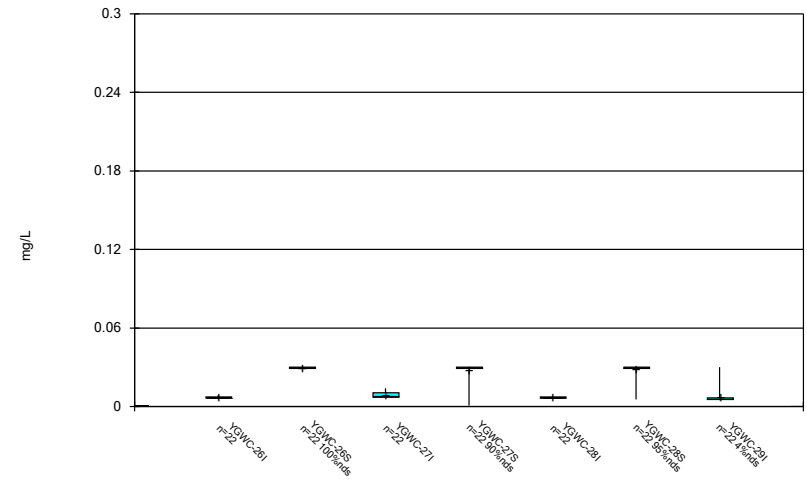
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Box & Whiskers Plot



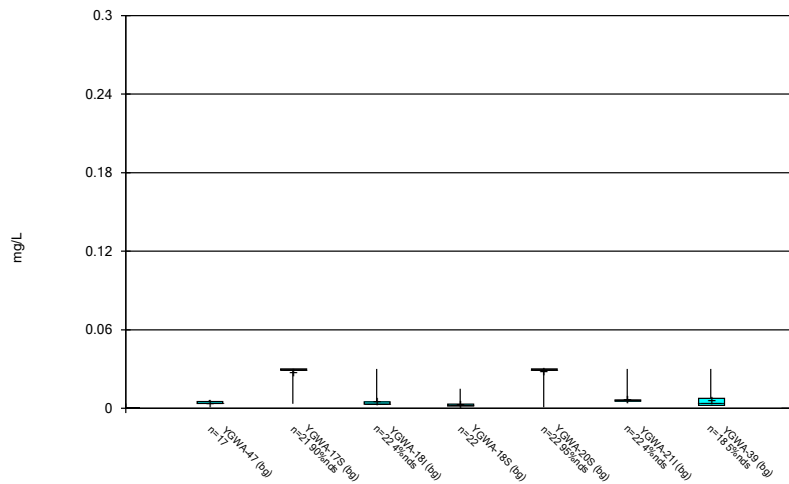
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Box & Whiskers Plot



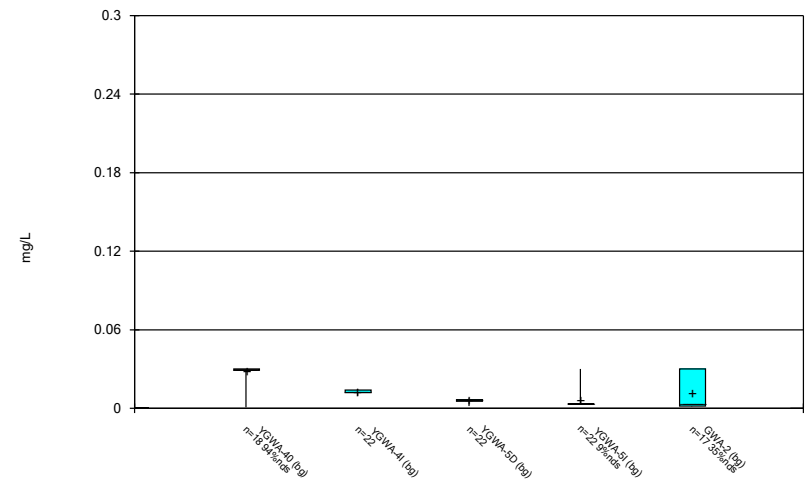
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Box & Whiskers Plot



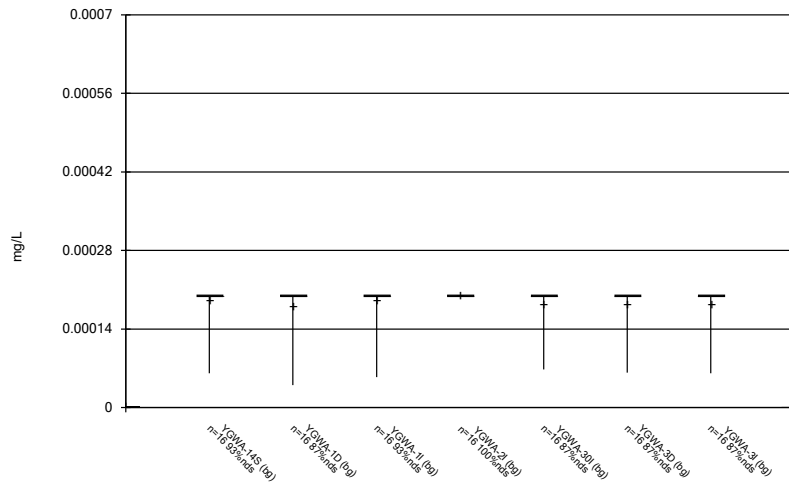
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Box & Whiskers Plot



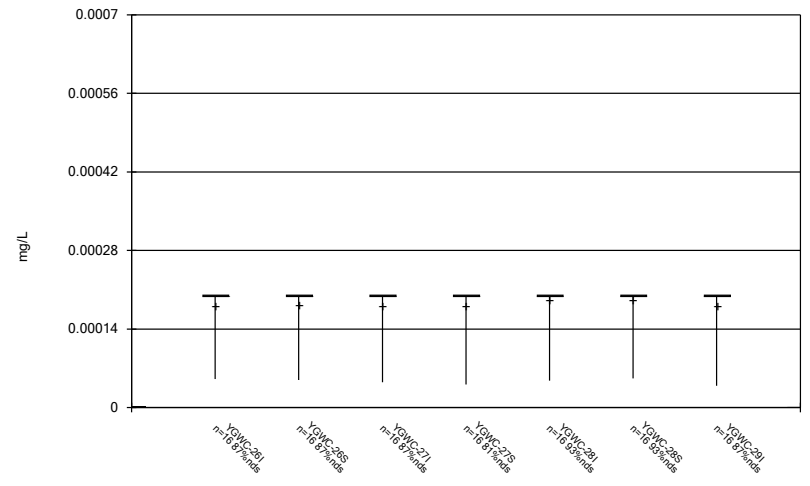
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Box & Whiskers Plot



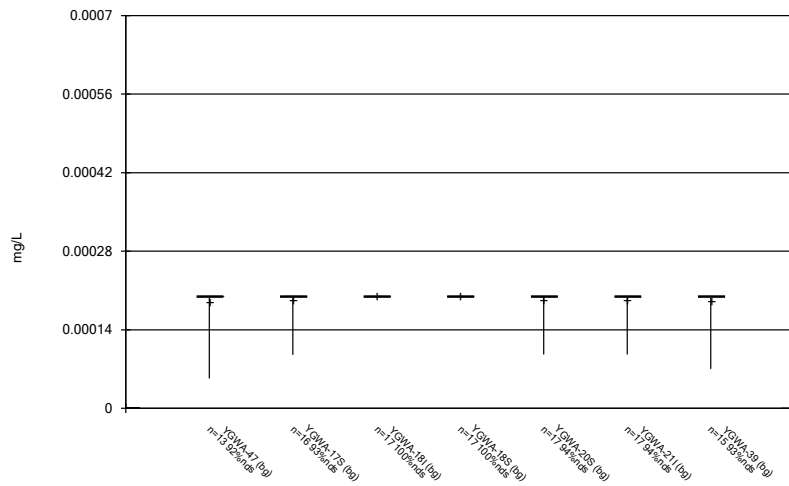
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Box & Whiskers Plot



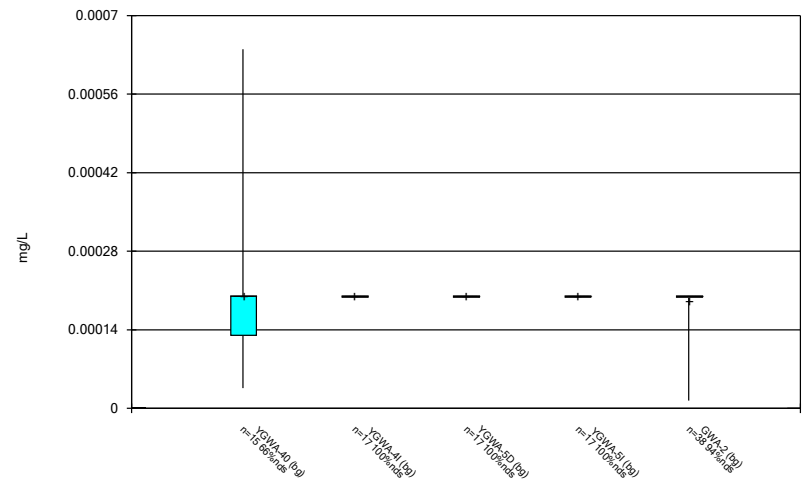
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Box & Whiskers Plot



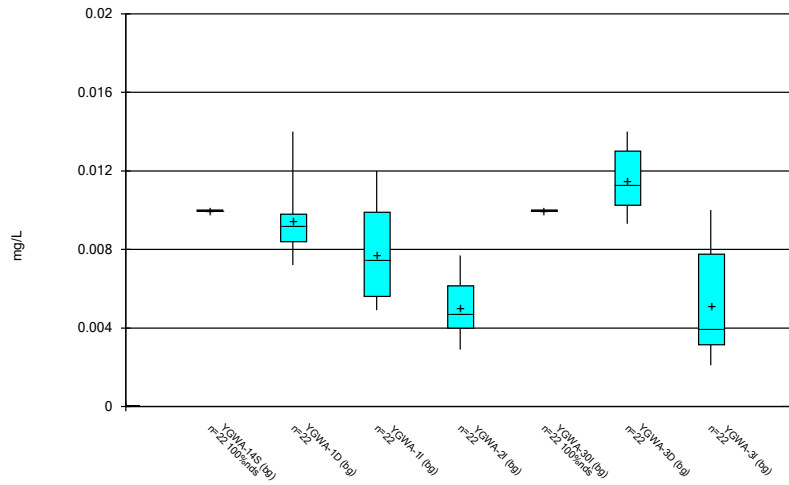
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Box & Whiskers Plot



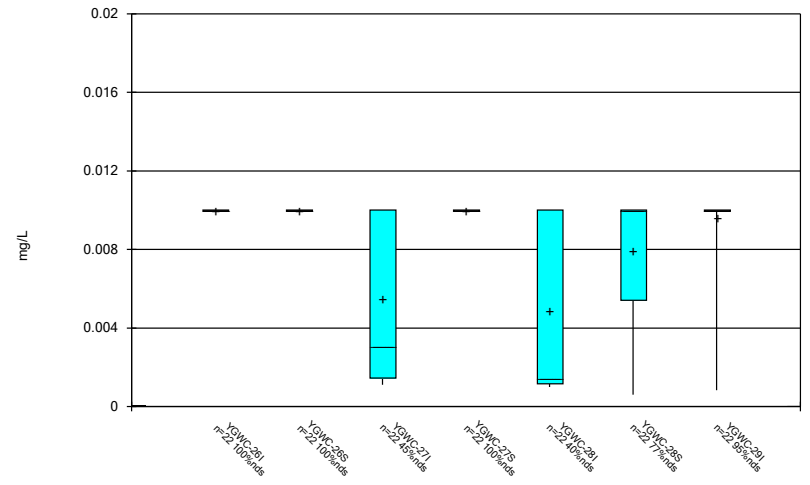
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Box & Whiskers Plot



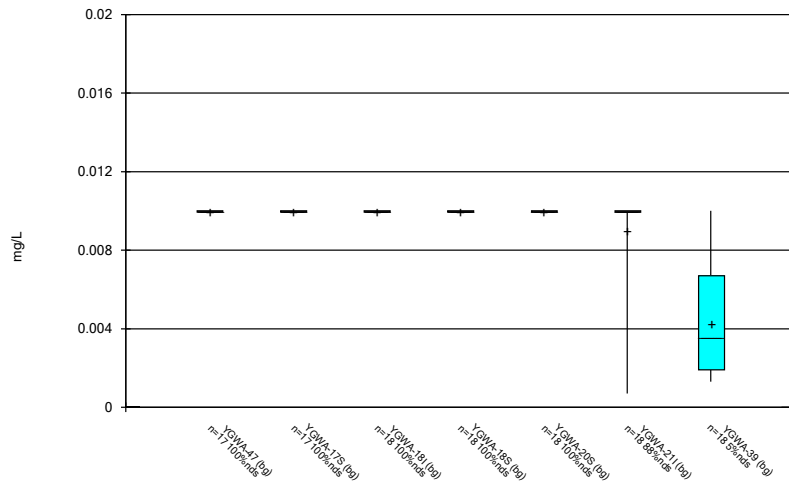
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



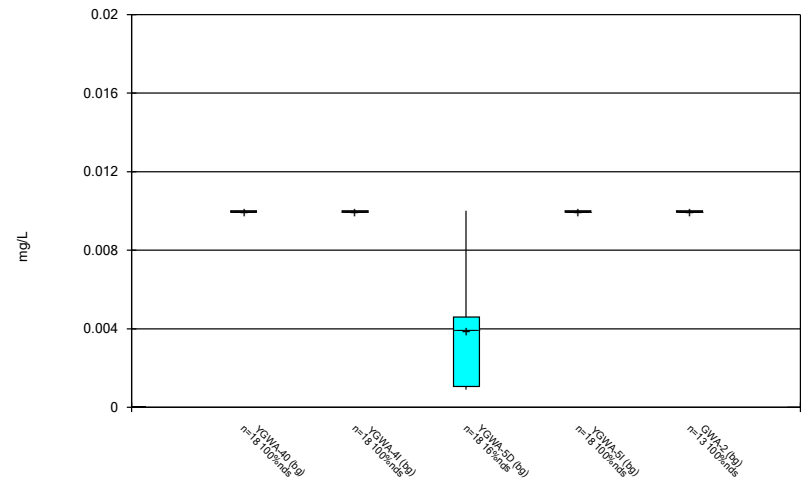
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Box & Whiskers Plot



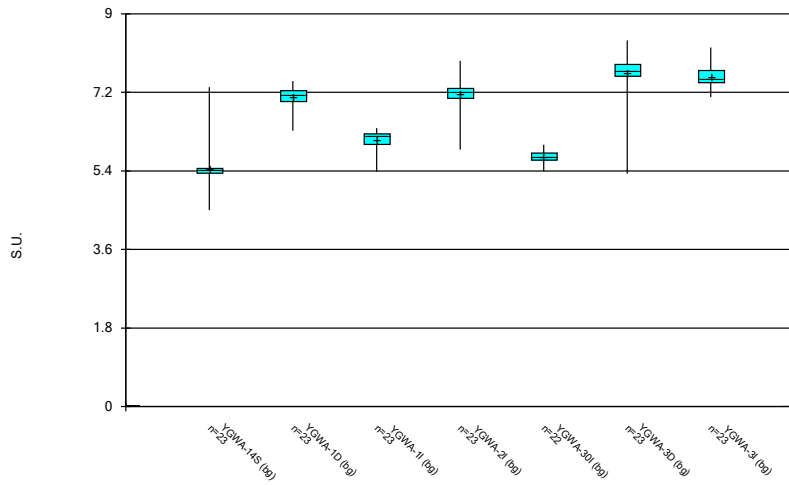
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Box & Whiskers Plot



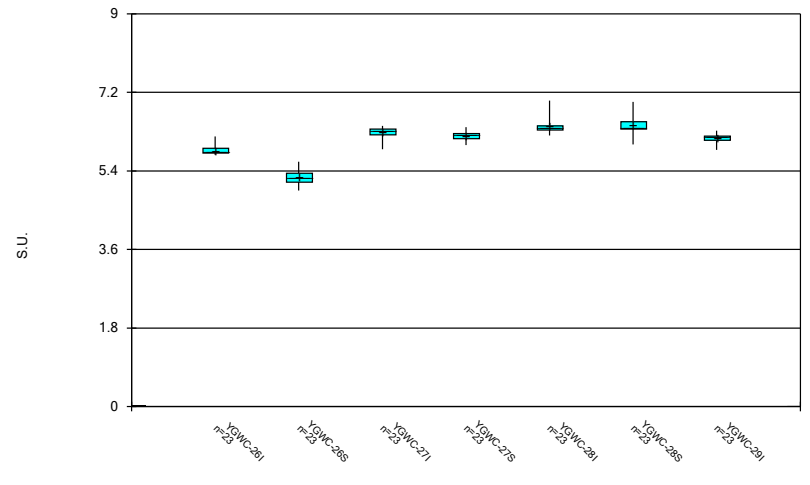
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Box & Whiskers Plot



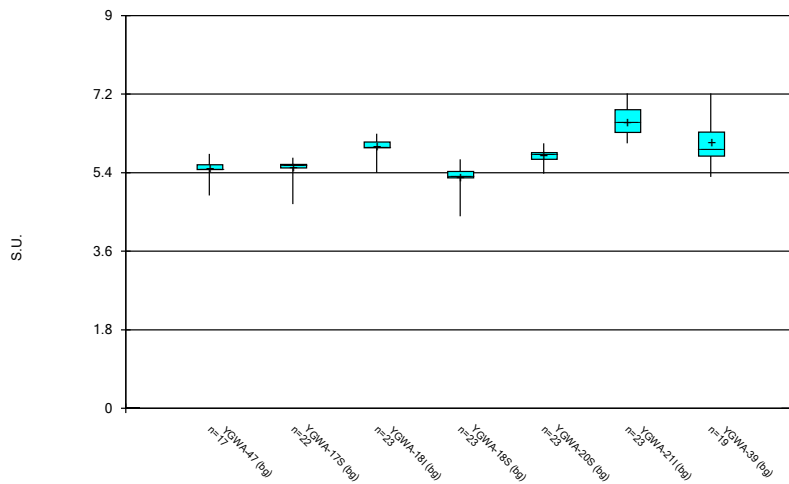
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Box & Whiskers Plot



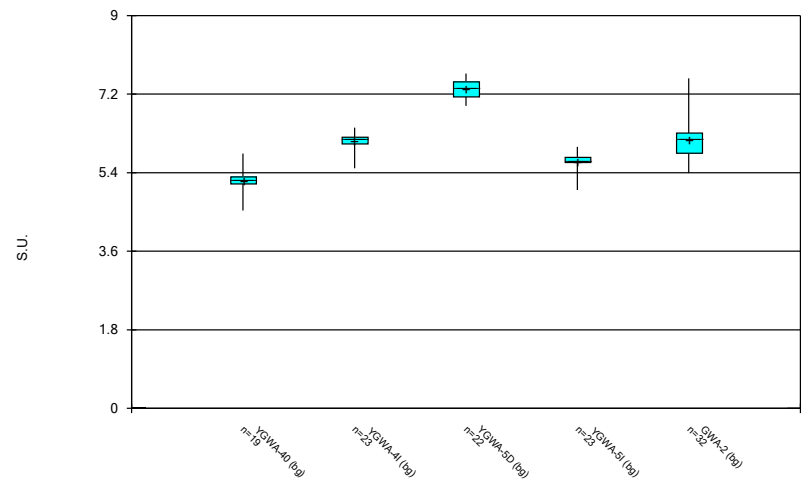
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Box & Whiskers Plot



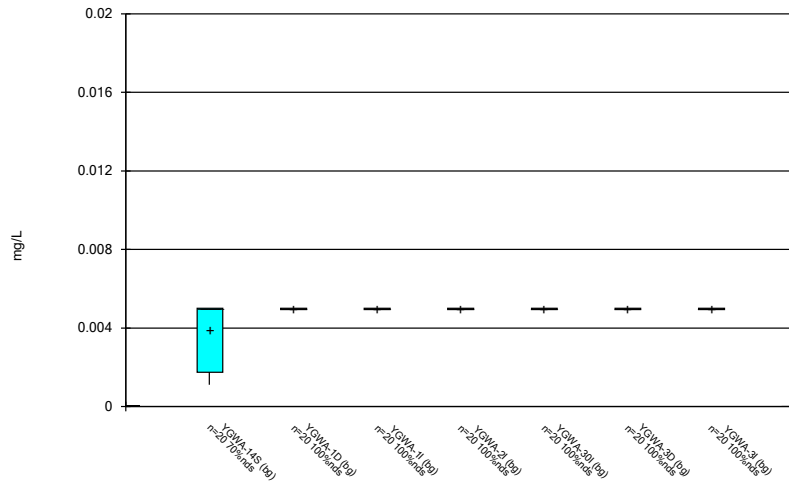
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Box & Whiskers Plot



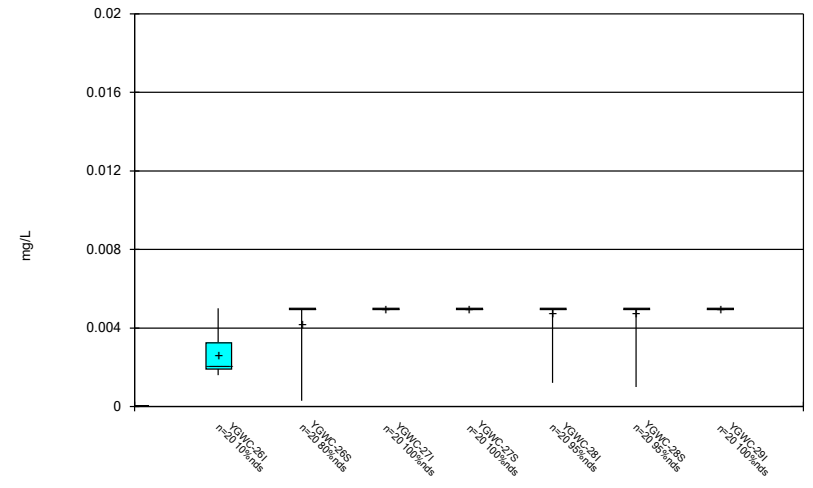
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Box & Whiskers Plot



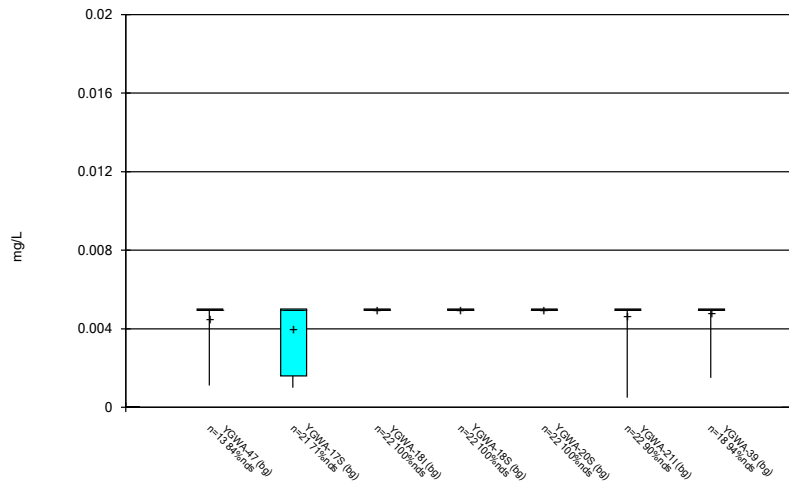
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Box & Whiskers Plot



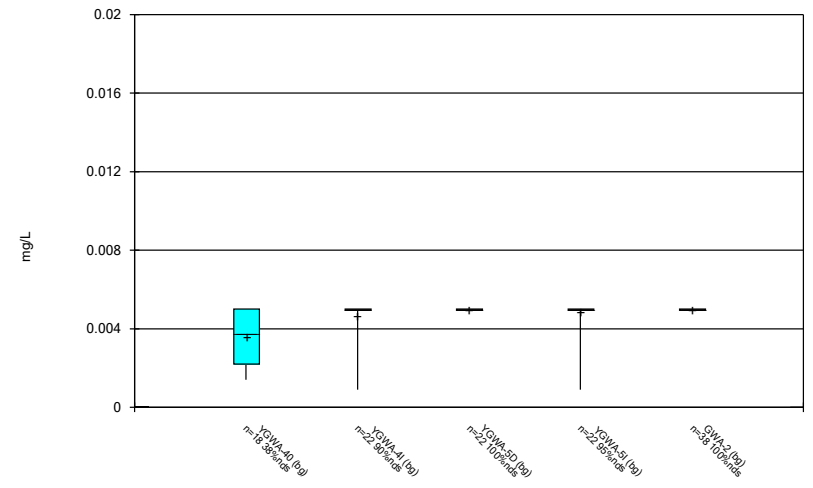
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



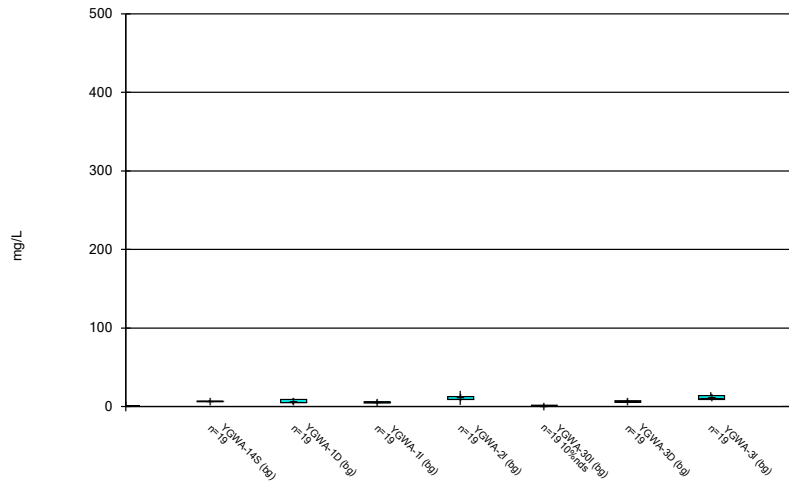
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Box & Whiskers Plot



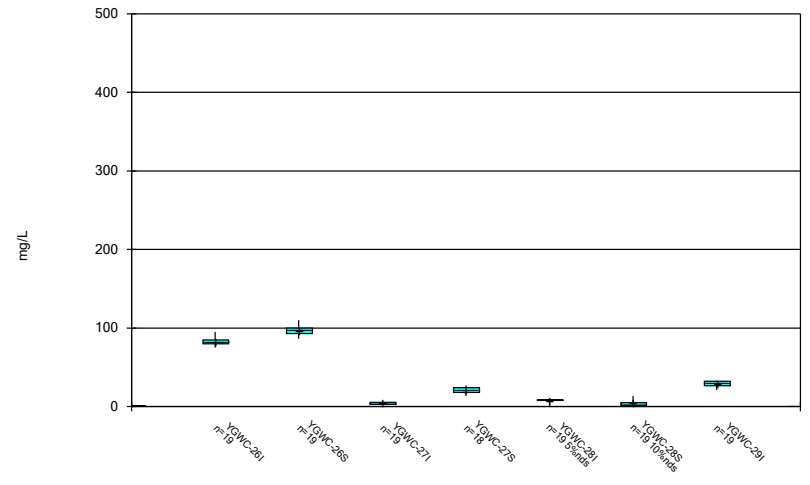
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Box & Whiskers Plot



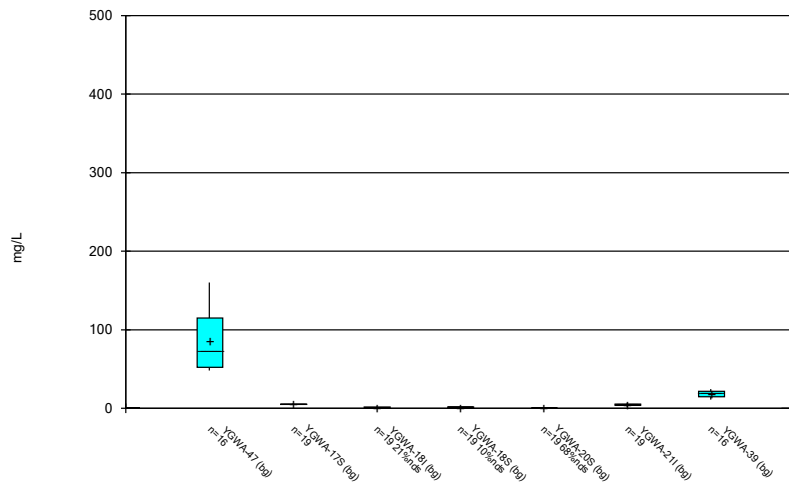
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Box & Whiskers Plot



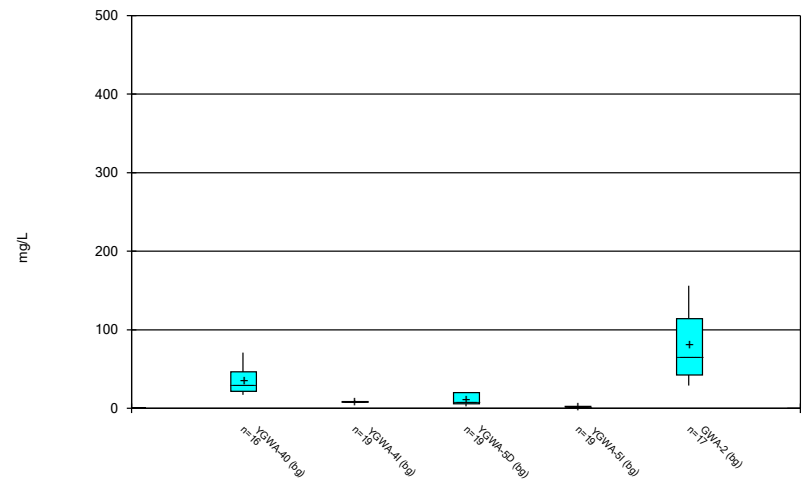
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Box & Whiskers Plot



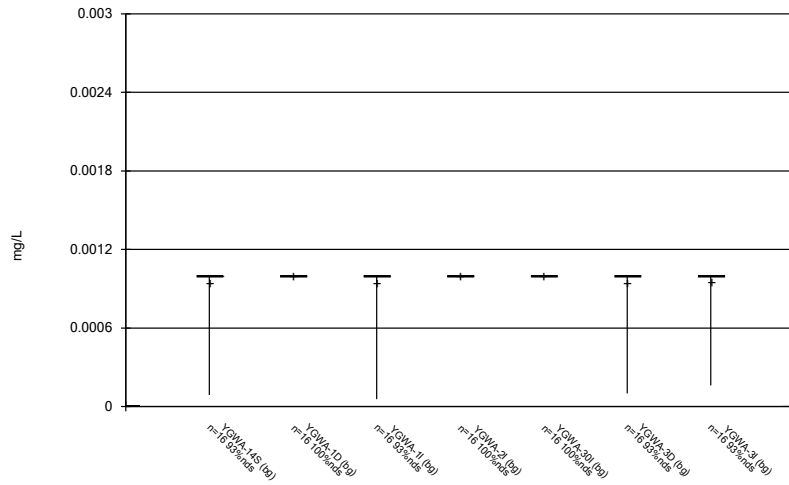
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Box & Whiskers Plot



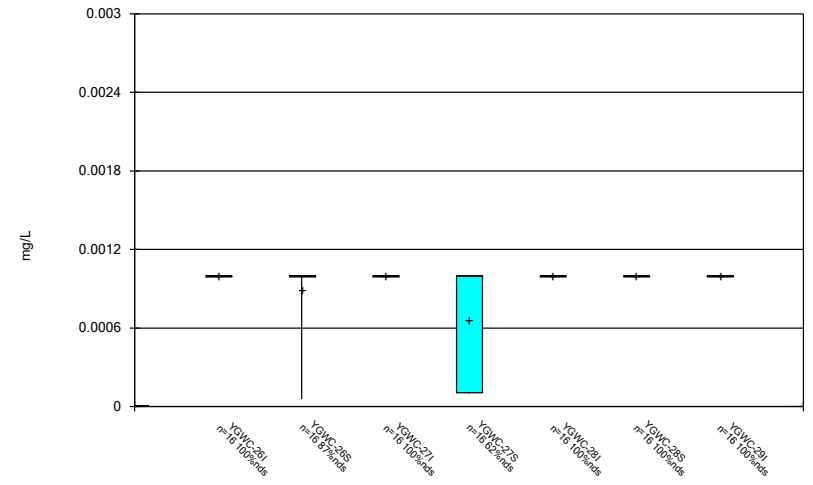
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Box & Whiskers Plot



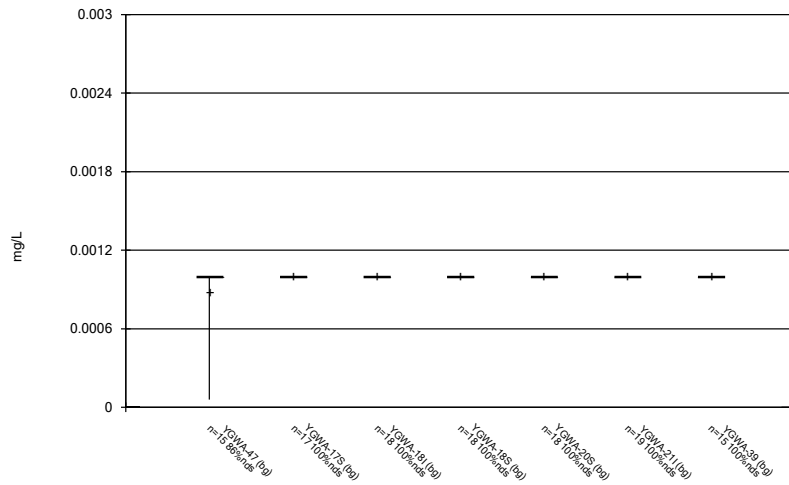
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Box & Whiskers Plot



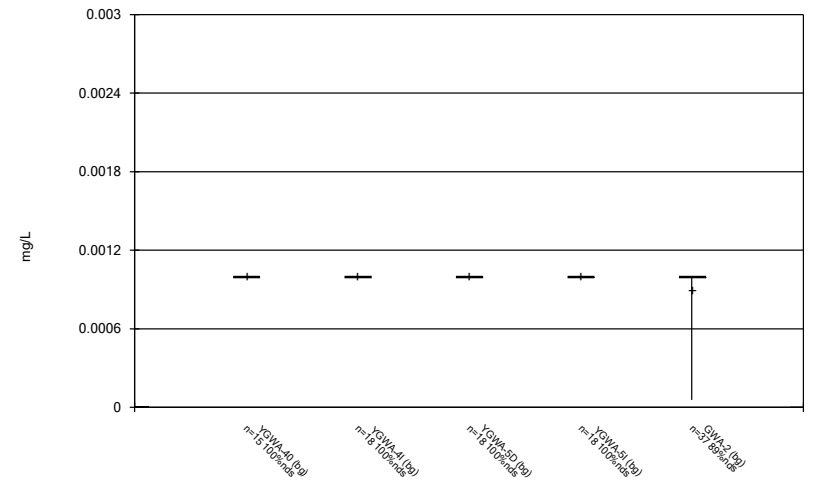
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Box & Whiskers Plot



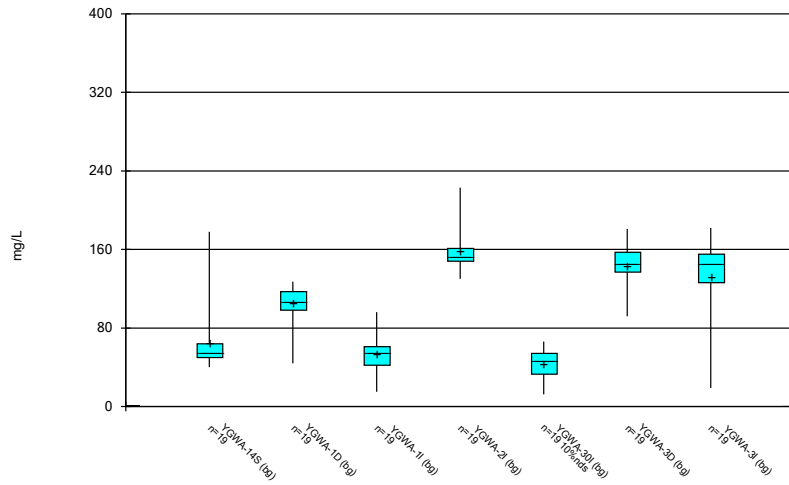
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Box & Whiskers Plot



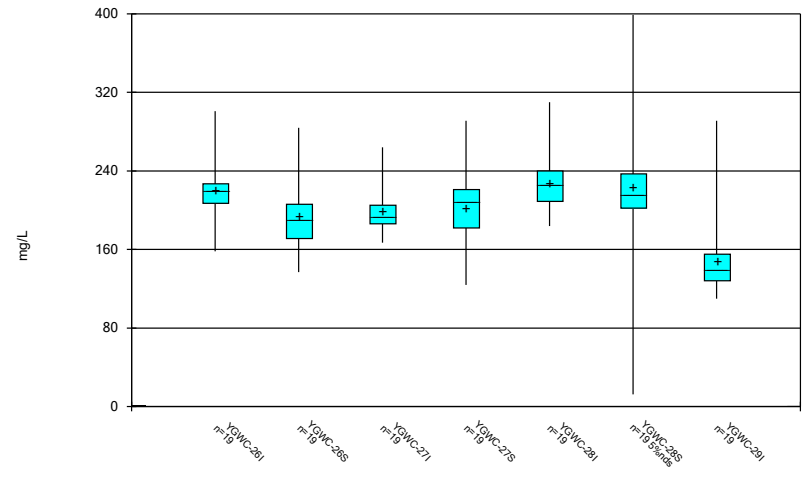
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



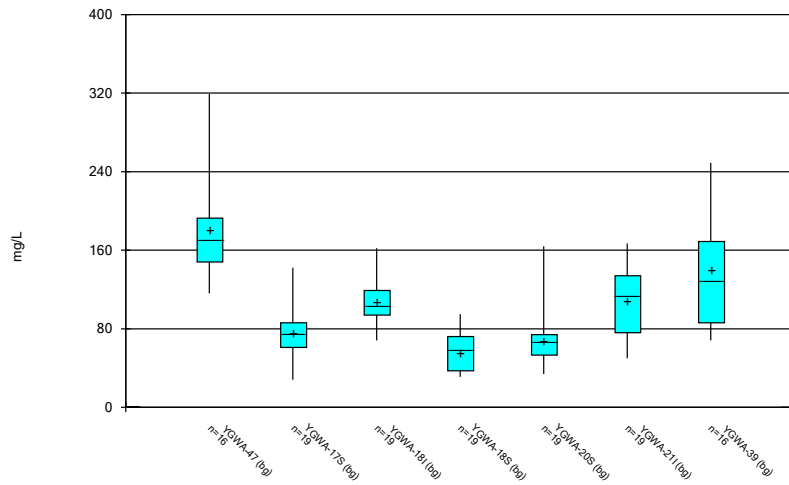
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



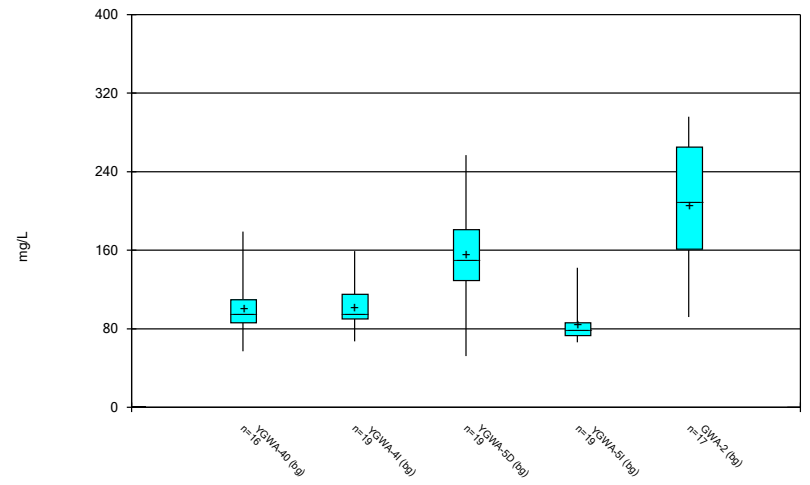
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:45 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:45 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/13/2022, 3:47 PM

	GWA-2 Cobalt (mg/L)	YGWC-261 Combined Radium 226 + 228 (pCi/L)	YGWA-47 pH (S.U.)	YGWC-27S Sulfate (mg/L)
6/8/2016	6.68 (o)			
4/2/2018		6.3 (o)		
8/26/2020	0.2 (O)			
9/22/2020	0.16 (O)			
3/2/2021	0.21 (O)			
3/3/2021				451 (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 Pond 2 Printed 10/13/2022, 3:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	8/31/2022	0.64	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	8/31/2022	0.7	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	9/1/2022	2.3	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	9/1/2022	1	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	9/1/2022	1.8	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	9/1/2022	2.2	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	9/1/2022	0.71	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	12	n/a	8/31/2022	16.6	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	12	n/a	8/31/2022	15	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	12	n/a	9/1/2022	13.4	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	12	n/a	9/1/2022	16.5	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	209.3	n/a	8/31/2022	228	Yes	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	209.3	n/a	9/1/2022	225	Yes	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2

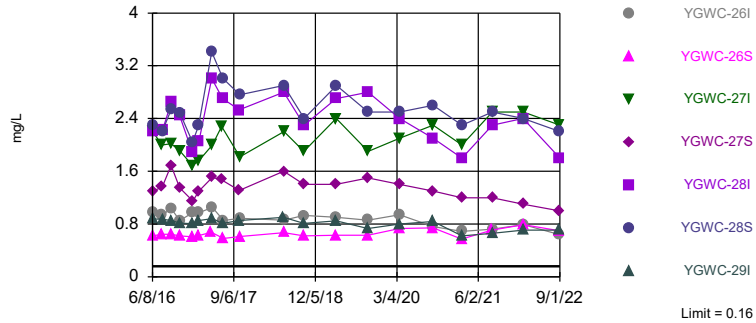
Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/13/2022, 3:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	8/31/2022	0.64	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	8/31/2022	0.7	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	9/1/2022	2.3	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	9/1/2022	1	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	9/1/2022	1.8	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	9/1/2022	2.2	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	9/1/2022	0.71	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26I	37	n/a	8/31/2022	16.4	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	8/31/2022	10.8	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	9/1/2022	28.2	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	9/1/2022	21.3	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	9/1/2022	26.3	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	9/1/2022	33.1	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	9/1/2022	11	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	12	n/a	8/31/2022	16.6	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	12	n/a	8/31/2022	15	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	12	n/a	9/1/2022	13.4	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	12	n/a	9/1/2022	10.4	No	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	12	n/a	9/1/2022	10.4	No	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	12	n/a	9/1/2022	16.5	Yes	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	12	n/a	9/1/2022	8.1	No	350	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	8/31/2022	0.082J	No	419	n/a	n/a	65.63	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	8/31/2022	0.076J	No	419	n/a	n/a	65.63	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	9/1/2022	0.1	No	419	n/a	n/a	65.63	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	9/1/2022	0.12	No	419	n/a	n/a	65.63	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	9/1/2022	0.11	No	419	n/a	n/a	65.63	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	9/1/2022	0.16	No	419	n/a	n/a	65.63	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	9/1/2022	0.091J	No	419	n/a	n/a	65.63	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	8/31/2022	5.77	No	429	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	8/31/2022	5.61	No	429	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	9/1/2022	6.13	No	429	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	9/1/2022	6.13	No	429	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	9/1/2022	6.41	No	429	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	9/1/2022	6.59	No	429	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	8.39	4.4	9/1/2022	6.05	No	429	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	8/31/2022	85.9	No	350	n/a	n/a	6	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	8/31/2022	90.2	No	350	n/a	n/a	6	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	9/1/2022	2.5	No	350	n/a	n/a	6	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	9/1/2022	13.5	No	350	n/a	n/a	6	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	9/1/2022	7.6	No	350	n/a	n/a	6	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	9/1/2022	13.4	No	350	n/a	n/a	6	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	9/1/2022	21.2	No	350	n/a	n/a	6	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	209.3	n/a	8/31/2022	228	Yes	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	209.3	n/a	8/31/2022	206	No	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	209.3	n/a	9/1/2022	193	No	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	209.3	n/a	9/1/2022	124	No	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	209.3	n/a	9/1/2022	186	No	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	209.3	n/a	9/1/2022	225	Yes	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	209.3	n/a	9/1/2022	128	No	350	108.1	54.44	0.5714	None	No	0.001075	Param Inter 1 of 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

Prediction Limit
Interwell Non-parametric

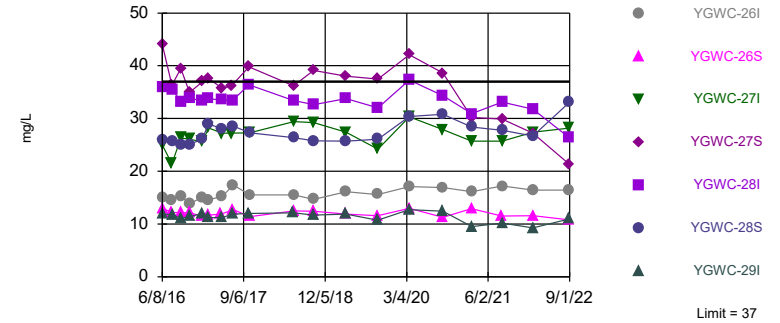


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. 48.57% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 10/13/2022 3:49 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

Prediction Limit
Interwell Non-parametric

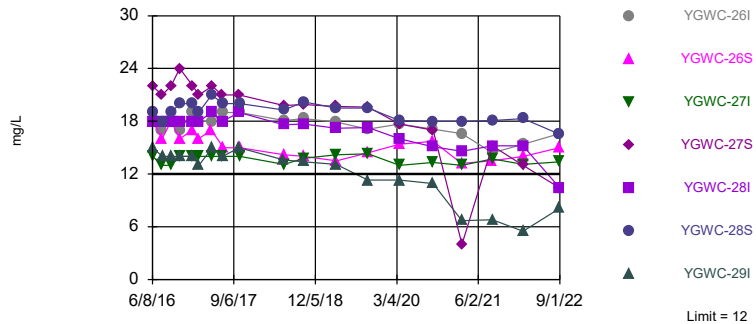


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. 0.8571% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 10/13/2022 3:49 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S

Prediction Limit
Interwell Non-parametric



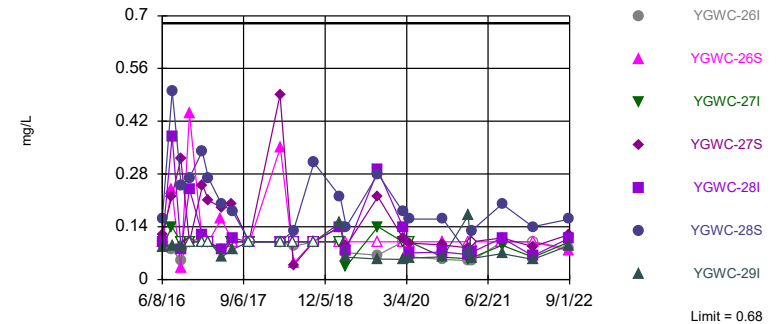
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 10/13/2022 3:49 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric

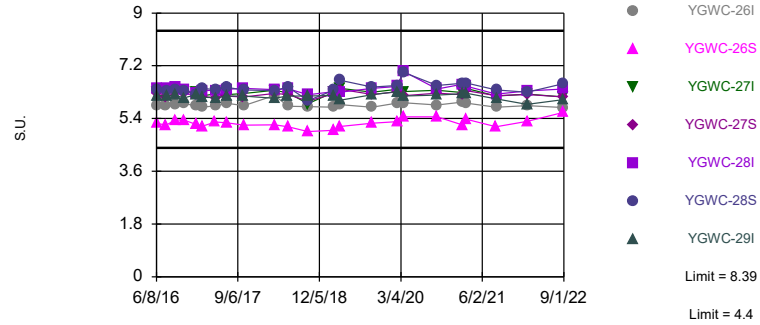


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 419 background values. 65.63% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 10/13/2022 3:49 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limits

Prediction Limit
Interwell Non-parametric



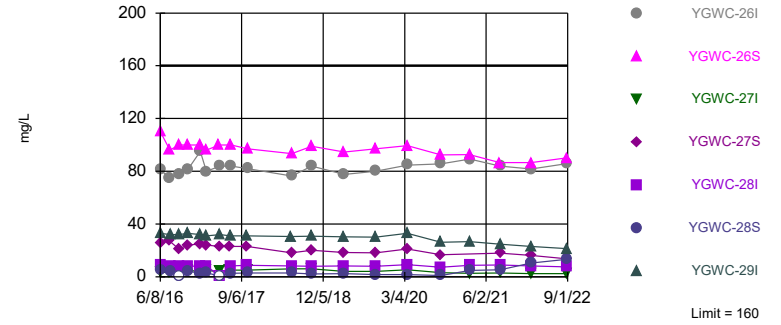
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 429 background values. Annual per-constituent alpha = 0.001377. Individual comparison alpha = 0.00009836 (1 of 2). Comparing 7 points to limit.

Constituent: pH Analysis Run 10/13/2022 3:50 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric

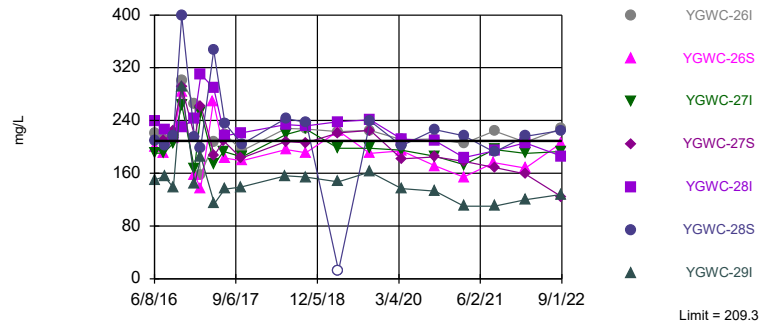


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. 6% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 10/13/2022 3:50 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-26I, YGWC-28S

Prediction Limit Interwell Parametric



Background Data Summary: Mean=108.1, Std. Dev.=54.44, n=350, 0.5714% NDs. Normality test was disabled.
Kappa = 1.859 (c=7, w=7, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report
alpha = 0.007498. Individual comparison alpha = 0.001075. Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 10/13/2022 3:50 PM View: Appendix III - Parametric
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		0.0087 (J)	0.006 (J)		0.0079 (J)				<0.04
6/28/2017	<0.04							<0.04	
6/29/2017						<0.04			
6/30/2017				0.0173 (J)			<0.04		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		0.0072 (J)	0.0071 (J)		0.0094 (J)				<0.04
10/4/2017	<0.04						<0.04	<0.04	
10/5/2017				0.0173 (J)		<0.04			
10/6/2017									
10/9/2017									
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									
6/5/2018		0.0052 (J)							
6/6/2018			<0.04		0.0098 (J)				
6/7/2018						0.0045 (J)		0.004 (J)	<0.04
6/8/2018	<0.04			0.013 (J)					
6/11/2018							0.014 (J)		
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					0.01 (J)	0.005 (J)			0.0057 (J)
10/1/2018	<0.04	0.021 (J)	0.0049 (J)	0.015 (J)				<0.04	
10/2/2018							<0.04		
10/3/2018									
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	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
6/8/2016						0.62	1.3	0.97	2.2
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	<0.04	0.0059 (J)	0.008 (J)		<0.04				
7/28/2016				<0.04					
8/1/2016						0.643	1.36	0.932	2
8/2/2016									
8/30/2016									
8/31/2016									
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				
9/20/2016						0.644	1.69	1.04	2.02
9/21/2016									
11/1/2016									
11/2/2016					<0.04				
11/3/2016	<0.04	0.0082 (J)	0.0077 (J)	<0.04					
11/4/2016									
11/7/2016						0.621	1.35	0.852	1.91
11/8/2016									
11/14/2016									
11/28/2016									
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									
1/18/2017						0.607		0.972	1.69
1/19/2017							1.15		
2/21/2017						0.624		0.972	
2/22/2017							1.3		
2/23/2017									1.76
2/24/2017									
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						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
5/3/2017						0.676			
5/5/2017									
5/8/2017							1.51	1.05	2
5/26/2017									
6/27/2017									
6/28/2017	<0.04	0.0079 (J)							
6/29/2017			0.0074 (J)	<0.04	<0.04				
6/30/2017							1.47		2.28
7/5/2017									
7/7/2017									
7/10/2017						0.58		0.855	
7/11/2017									
7/17/2017									
10/3/2017				<0.04					
10/4/2017		0.009 (J)	0.0077 (J)		<0.04				
10/5/2017	<0.04								
10/6/2017							1.31		
10/9/2017									1.82
10/10/2017						0.612		0.887	
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									
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)						
6/12/2018							1.6		
6/13/2018						0.67		0.86	2.2
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
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						0.62	1.4	0.93	1.9
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							1.4		2.4

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
4/2/2019			0.0066 (J)	0.011 (J)		0.63		0.9	
4/3/2019	<0.04	0.0053 (J)			<0.04				
6/12/2019									
9/24/2019				0.018 (J)					
9/25/2019			0.0081 (J)		<0.04	0.63		0.86	
9/26/2019	0.0062 (J)	0.0072 (J)					1.5		1.9
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020						0.73			
3/20/2020							1.4	0.94	2.1
3/24/2020	0.0054 (J)	0.01 (J)	0.0092 (J)	0.016 (J)	<0.04				
3/25/2020									
9/22/2020									
9/23/2020	0.021 (J)	0.006 (J)	0.0066 (J)						
9/24/2020				0.013 (J)	0.0094 (J)	0.74	1.3	0.76	2.3
9/25/2020									
3/1/2021									
3/2/2021						0.57			
3/3/2021	<0.04	0.0094 (J)	0.01 (J)		<0.04		1.2	0.69	2
3/4/2021				0.0079 (J)					
8/19/2021						0.71			
8/20/2021							1.2	0.72	2.5
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							1.1		
2/9/2022	<0.04	<0.04	0.0098 (J)	<0.04	<0.04				
2/10/2022						0.79		0.79	2.5
2/11/2022									
8/30/2022	<0.04	0.014 (J)	0.013 (J)	0.012 (J)					
8/31/2022					<0.04	0.7		0.64	
9/1/2022							1		2.3

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	3.41		3.01					
5/8/2017		0.884		0.0141 (J)	0.0084 (J)			
5/26/2017						<0.04		
6/27/2017								
6/28/2017						<0.04		
6/29/2017								
6/30/2017								
7/5/2017		0.811	2.7					
7/7/2017	3.01							
7/10/2017								
7/11/2017				0.0131 (J)				
7/17/2017					0.0092 (J)			
10/3/2017						<0.04		
10/4/2017								
10/5/2017		0.851	2.53					
10/6/2017								
10/9/2017	2.76							
10/10/2017				0.0124 (J)				
10/11/2017							0.0135 (J)	
10/12/2017								0.0401
10/16/2017					<0.04			
11/20/2017							0.0251 (J)	0.156
1/10/2018								0.15
1/11/2018							0.0255 (J)	
2/19/2018					<0.04			0.146
2/20/2018							<0.04	
4/2/2018				0.013 (J)				
4/3/2018							0.033 (J)	0.12
6/5/2018								
6/6/2018								
6/7/2018						<0.04		
6/8/2018								
6/11/2018		0.9						
6/12/2018	2.9		2.8					
6/13/2018								
6/28/2018							0.053	0.16
8/6/2018					<0.04			
8/7/2018							0.024 (J)	0.12
9/19/2018				0.012 (J)				
9/24/2018							0.028 (J)	0.099
9/25/2018								
9/26/2018								
10/1/2018						<0.04		
10/2/2018		0.81						
10/3/2018	2.4		2.3					
2/25/2019					<0.04			
3/26/2019								0.096
3/27/2019				0.013 (J)			0.017 (J)	
3/28/2019								
3/29/2019						0.0065 (J)		
4/1/2019		0.85	2.7					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	2.9							
4/3/2019								
6/12/2019					<0.04			
9/24/2019						0.0076 (J)		
9/25/2019		0.73						
9/26/2019	2.5		2.8					
10/8/2019				0.012 (J)	<0.04			
10/9/2019							0.017 (J)	0.079
3/17/2020				0.023 (J)	0.0051 (J)			
3/18/2020								
3/19/2020	2.5		2.4			0.0073 (J)		
3/20/2020		0.8						
3/24/2020								0.088 (J)
3/25/2020							0.043 (J)	
9/22/2020				0.0076 (J)	0.0079 (J)			
9/23/2020						<0.04		
9/24/2020	2.6	0.84	2.1				0.037 (J)	0.087 (J)
9/25/2020								
3/1/2021				0.013 (J)				
3/2/2021					<0.04			
3/3/2021	2.3	0.62	1.8			<0.04		
3/4/2021							0.033 (J)	0.078
8/19/2021				0.011 (J)				
8/20/2021	2.5	0.66	2.3		<0.04			
8/26/2021							0.095	
8/27/2021						<0.04		
9/1/2021								
9/3/2021								0.077
2/8/2022	2.4	0.71	2.4	0.015 (J)	<0.04		0.13	0.074
2/9/2022						<0.04		
2/10/2022								
2/11/2022								
8/30/2022					<0.04	<0.04		
8/31/2022				0.0091 (J)			0.14	0.062
9/1/2022	2.2	0.71	1.8					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		13.8	2.36		36.5				2.13
6/28/2017	23.9							29.8	
6/29/2017						8.81			
6/30/2017				1.24			1.13		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		14	2.21		30.9				2.15
10/4/2017	22.1						1.09	29.7	
10/5/2017				1.11		9.29			
10/6/2017									
10/9/2017									
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									
6/5/2018		15.2 (J)							
6/6/2018			2.3		26.2				
6/7/2018						8.2		29.1	2.3
6/8/2018	21.9 (J)			1.1					
6/11/2018							1.1		
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					25.8	9.5 (J)			2.3
10/1/2018	19.7	15.1	1.8	0.99				26.9	
10/2/2018							1.1		
10/3/2018									
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)						1.3	30.1	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	6.2	1.4							
6/7/2016			2.2	3.7	2.3				
6/8/2016						13	44	15	25
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	4.73	1.19	2		2.08				
7/28/2016				3.15					
8/1/2016						12.2	36.3	14.5	21.4
8/2/2016									
8/30/2016									
8/31/2016									
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				
9/20/2016						12.2	39.5	15.3	26.3
9/21/2016									
11/1/2016									
11/2/2016					2.13				
11/3/2016	5.25	1.31	1.99	3.4					
11/4/2016									
11/7/2016						12.1	34.9	13.8	26.1
11/8/2016									
11/14/2016									
11/28/2016									
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									
1/18/2017						11.5		15.1	25.6
1/19/2017							37		
2/21/2017						11.7		14.6	
2/22/2017							37.6		
2/23/2017									28.2
2/24/2017									
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						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
5/3/2017						11.9			
5/5/2017									
5/8/2017							35.7	15.2	27.2
5/26/2017									
6/27/2017									
6/28/2017	4.95	1.06							
6/29/2017			2.02	6.04	2.54				
6/30/2017							36.2		27.2
7/5/2017									
7/7/2017									
7/10/2017						12.7		17.4	
7/11/2017									
7/17/2017									
10/3/2017				8.28					
10/4/2017		1.1	2.03		2.25				
10/5/2017	5.28								
10/6/2017							39.8		
10/9/2017									27.3
10/10/2017						11.4		15.5	
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									
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						
6/12/2018							36.2		
6/13/2018						12.5		15.5	29.4
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
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						12.4 (J)	39.1	14.7	29.2
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							38		27.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
4/2/2019			2.5	8.8		11.9 (J)		16.1 (J)	
4/3/2019	5.3	1.2			2.9				
6/12/2019									
9/24/2019				7.7					
9/25/2019			2.6		2.4	11.6		15.6	
9/26/2019	4.9	1.1					37.5		24.2
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020						13			
3/20/2020							42.1	17.1	30.3
3/24/2020	5.3	1	2.7	6	2.6				
3/25/2020									
9/22/2020									
9/23/2020	5.2	0.91 (J)	2.6						
9/24/2020				7.8	2.6	11.3	38.6	16.9	27.9
9/25/2020									
3/1/2021									
3/2/2021						12.9			
3/3/2021	5.2	0.96 (J)	2.5		2.4		30.2	16.1	25.7
3/4/2021				8.7					
8/19/2021						11.5			
8/20/2021							29.9	17.2	25.7
8/26/2021		0.98 (J)							
8/27/2021	5.1		2.7		2.4				
9/1/2021				9.5					
9/3/2021									
2/8/2022							27.2		
2/9/2022	5.1	0.87 (J)	2.8	9.8	2.3				
2/10/2022						11.6		16.4	27.4
2/11/2022									
8/30/2022	5.7	0.77 (J)	3	7.3					
8/31/2022					2.4	10.8		16.4	
9/1/2022							21.3		28.2

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	28.1		33.5					
5/8/2017		11.2		14.6	14.2			
5/26/2017						26.2		
6/27/2017								
6/28/2017						26.1		
6/29/2017								
6/30/2017								
7/5/2017		11.9	33.4					
7/7/2017	28.6							
7/10/2017								
7/11/2017				14.3				
7/17/2017					14.1			
10/3/2017						26.7		
10/4/2017								
10/5/2017		12	36.4					
10/6/2017								
10/9/2017	27.3							
10/10/2017				12.1				
10/11/2017							2.74	
10/12/2017								2.9
10/16/2017					13.6			
11/20/2017							1.81	10.4
1/10/2018								10.2
1/11/2018							1.54	
2/19/2018					<25			<25
2/20/2018							1.71	
4/2/2018				<25				
4/3/2018							1.4	6.3
6/5/2018								
6/6/2018								
6/7/2018						25		
6/8/2018								
6/11/2018		12.1						
6/12/2018	26.4		33.4					
6/13/2018								
6/28/2018							1.4	6.7
8/6/2018					11.4 (J)			
8/7/2018							1.2	6.3
9/19/2018				11.1 (J)				
9/24/2018							1.1	5.7
9/25/2018								
9/26/2018								
10/1/2018						25		
10/2/2018		11.7 (J)						
10/3/2018	25.8		32.6					
2/25/2019					12.7 (J)			
3/26/2019								5.6
3/27/2019				10.8 (J)			1.5	
3/28/2019								
3/29/2019						23.5 (J)		
4/1/2019		11.9 (J)	33.8					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	25.7							
4/3/2019								
6/12/2019					18.9			
9/24/2019						26.4		
9/25/2019		10.7						
9/26/2019	26.1		32					
10/8/2019				9.7	28.3			
10/9/2019							2.4	4.9
3/17/2020				14.8	24.3			
3/18/2020								
3/19/2020	30.4		37.3			27.4		
3/20/2020		12.7						
3/24/2020								4.8
3/25/2020							2.7	
9/22/2020				10.1	31			
9/23/2020						26.3		
9/24/2020	30.8	12.4	34.3				3.7	4.4
9/25/2020								
3/1/2021				10.3				
3/2/2021					34.2			
3/3/2021	28.4	9.5	30.9			25.6		
3/4/2021							8.2	4.6
8/19/2021				9.6				
8/20/2021	27.8	10.2	33.1		26.5			
8/26/2021							14.1	
8/27/2021						22.6		
9/1/2021								
9/3/2021								5.6
2/8/2022	26.7	9.3	31.8	9.4	25.6		15.2	6
2/9/2022						23.4		
2/10/2022								
2/11/2022								
8/30/2022					23.5	25.4		
8/31/2022				9.6			16.3	6.2
9/1/2022	33.1	11	26.3					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		1.1	1.4		7				4.3
6/28/2017	1.2							1.3	
6/29/2017						4.2			
6/30/2017				3.7			1.8		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		1.1	1.7		6.5				4.2
10/4/2017	1.2						1.8	1.5	
10/5/2017				3.8		4.7			
10/6/2017									
10/9/2017									
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									
6/5/2018		1.1							
6/6/2018			1.4		4.7				
6/7/2018						4.4		1.2	4.5
6/8/2018	1.2			3.4					
6/11/2018							2		
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					4.8	4.8			5.1
10/1/2018	1.2	1.1	1.4	3.8				1.5	
10/2/2018							1.8		
10/3/2018									
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						1.7	1.2	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	6.8	6.4							
6/7/2016			4.5	2.8	1.9				
6/8/2016						18	22	19	14
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	6.7	6.2	4.5		1.9				
7/28/2016				2.6					
8/1/2016						16	21	17	13
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		6.1	4.5						
9/19/2016	7			2.4	1.9				
9/20/2016						18	22	18	13
9/21/2016									
11/1/2016									
11/2/2016					2.6				
11/3/2016	7.5	7.4	5.4	2.9					
11/4/2016									
11/7/2016						16	24	17	14
11/8/2016									
11/14/2016									
11/28/2016									
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									
1/18/2017						17		19	14
1/19/2017							22		
2/21/2017						16		18	
2/22/2017							21		
2/23/2017									14
2/24/2017									
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						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
5/3/2017						17			
5/5/2017									
5/8/2017							22	18	14
5/26/2017									
6/27/2017									
6/28/2017	7	6.4							
6/29/2017			4.5	2.8	2.6				
6/30/2017							21		14
7/5/2017									
7/7/2017									
7/10/2017						15		19	
7/11/2017									
7/17/2017									
10/3/2017				2.2					
10/4/2017		6.8	4.7		2.6				
10/5/2017	7								
10/6/2017							21		
10/9/2017									14
10/10/2017						15		19	
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									
6/5/2018				1.7					
6/6/2018					2.7				
6/7/2018	6.8								
6/8/2018									
6/11/2018		6.8	4.9						
6/12/2018							19.8		
6/13/2018						14.2		18.1	13.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	7.9	7.8	5.6	2.2	3.6				
9/26/2018									
10/1/2018									
10/2/2018						14	19.9	18.3	13.8
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							19.7		14.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
4/2/2019			4.8	2.5		13.5		17.9	
4/3/2019	6.9	6.3			3.1				
6/12/2019				3.1					
9/24/2019									
9/25/2019			5.7		2.8	14.4		17.1	
9/26/2019	7	7.1					19.6		14.3
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020						15.4			
3/20/2020							17.7	17.7	13
3/24/2020	7	6.8	5	2.8	2.7				
3/25/2020									
9/22/2020									
9/23/2020	7.2	7.2	6.6						
9/24/2020				2	2.7	15.7	17	17.1	13.3
9/25/2020									
3/1/2021									
3/2/2021						13.2			
3/3/2021	7	7.2	7.1		2.7		4	16.6	13
3/4/2021				1.8					
8/19/2021						13.5			
8/20/2021							15.2	14.4	13.7
8/26/2021		7.3							
8/27/2021	7.4		8.5		2.8				
9/1/2021				1.8					
9/3/2021									
2/8/2022							13		
2/9/2022	7.5	7	10.9	1.7	2.8				
2/10/2022						14		15.4	13.1
2/11/2022									
8/30/2022	7.9	7	12	2.4					
8/31/2022					2.9	15		16.6	
9/1/2022							10.4		13.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	21		19					
5/8/2017		15		5.8	4.2			
5/26/2017						0.93		
6/27/2017								
6/28/2017						1		
6/29/2017								
6/30/2017								
7/5/2017		14	18					
7/7/2017	20							
7/10/2017								
7/11/2017				5.8				
7/17/2017					3.8			
10/3/2017						1.2		
10/4/2017								
10/5/2017		15	19					
10/6/2017								
10/9/2017	20							
10/10/2017				5.9				
10/11/2017							2.4	
10/12/2017								3.8
10/16/2017					4.2			
11/20/2017							1.8	4.4
1/10/2018								4.6
1/11/2018							1.6	
2/19/2018					4.3			4.6
2/20/2018							2	
4/2/2018				4.8				
4/3/2018							3.3	5.9
6/5/2018								
6/6/2018								
6/7/2018						1		
6/8/2018								
6/11/2018		13.6						
6/12/2018	19.3		17.6					
6/13/2018								
6/28/2018							2.1	5
8/6/2018					3.8			
8/7/2018							1.2	4.3
9/19/2018				4				
9/24/2018							1.3	4.9
9/25/2018								
9/26/2018								
10/1/2018						1.1		
10/2/2018		13.4						
10/3/2018	20.2		17.7					
2/25/2019					4.1			
3/26/2019								4.4
3/27/2019				4.3			1.4	
3/28/2019								
3/29/2019						1.2		
4/1/2019		13.1	17.2					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	19.5							
4/3/2019								
6/12/2019					4.7			
9/24/2019						0.95 (J)		
9/25/2019		11.3						
9/26/2019	19.5		17.3					
10/8/2019				4.4	5.1			
10/9/2019							2.1	5.1
3/17/2020				4.1	4.8			
3/18/2020								
3/19/2020	18.1		16			0.97 (J)		
3/20/2020		11.3						
3/24/2020								4.7
3/25/2020							1.9	
9/22/2020				4.2	4.2			
9/23/2020						0.88 (J)		
9/24/2020	18	10.9	15.1				2.7	5
9/25/2020								
3/1/2021				3.7				
3/2/2021					4.1			
3/3/2021	18	6.7	14.6			0.86 (J)		
3/4/2021							4.9	4.9
8/19/2021				3.5				
8/20/2021	18.1	6.8	15.2		5.2			
8/26/2021							7.2	
8/27/2021						0.99 (J)		
9/1/2021								
9/3/2021								5.5
2/8/2022	18.3	5.5	15.2	3.2	5.7		7.4	6.2
2/9/2022						1 (J)		
2/10/2022								
2/11/2022								
8/30/2022					6.3	1.2		
8/31/2022				3.5			6.7	6.3
9/1/2022	16.5	8.1	10.4					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
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				
6/30/2017				<0.1			<0.1		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
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				
10/6/2017									
10/9/2017									
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
3/30/2018									
4/2/2018									
4/3/2018									
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		
6/12/2018									
6/13/2018									
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	<0.1		0.44			
10/2/2018							<0.1		
10/3/2018									
2/25/2019									
2/26/2019				<0.1			<0.1		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-211 (bg)	YGWA-17S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1				
6/8/2016						0.086 (J)	0.094 (J)	0.12 (J)	<0.1
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1		<0.1				
7/28/2016				0.02 (J)					
8/1/2016						0.14 (J)	0.08 (J)	0.22 (J)	0.24 (J)
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		<0.1			<0.1				
9/19/2016	<0.1		<0.1	0.02 (J)					
9/20/2016						<0.1	0.05 (J)	0.32	0.03 (J)
9/21/2016									
11/1/2016									
11/2/2016			<0.1						
11/3/2016	<0.1	<0.1		<0.1	<0.1				
11/4/2016									
11/7/2016						<0.1 (*)	<0.1 (*)	<0.1 (*)	0.44
11/8/2016									
11/14/2016									
11/28/2016									
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									
1/18/2017						<0.1 (*)	0.11 (J)		<0.1 (*)
1/19/2017								0.25 (J)	
2/21/2017							<0.1 (*)		<0.1 (*)
2/22/2017								0.21 (J)	
2/23/2017						<0.1 (*)			
2/24/2017									
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	<0.1	0.04 (J)					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					<0.1				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
2/27/2019						<0.1	<0.1	0.14 (J)	<0.1
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									
3/28/2019									
3/29/2019									
4/1/2019						0.034 (J)		0.088 (J)	
4/2/2019				0.12 (J)	<0.1		0.071 (J)		<0.1
4/3/2019	<0.1	<0.1	<0.1						
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019				0.15 (J)					
9/25/2019			<0.1		<0.1		0.064 (J)		<0.1
9/26/2019	<0.1	<0.1				0.14 (J)		0.22 (J)	
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020	<0.1	<0.1			<0.1				
2/12/2020			<0.1	0.1 (J)					
2/13/2020						<0.1	<0.1	0.11 (J)	<0.1
3/17/2020									
3/18/2020									
3/19/2020									<0.1
3/20/2020						<0.1	0.06 (J)	0.097 (J)	
3/24/2020	<0.1	<0.1	<0.1	0.081 (J)	<0.1				
3/25/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020	<0.1	<0.1			<0.1				
9/24/2020			<0.1	0.079 (J)		0.059 (J)	0.053 (J)	0.092 (J)	<0.1
9/25/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	<0.1	0.092 (J)					
2/10/2021						0.055 (J)	0.05 (J)	0.084 (J)	<0.1
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021									<0.1
3/3/2021	<0.1	<0.1	<0.1		<0.1	0.058 (J)	0.05 (J)	<0.1	
3/4/2021				0.091 (J)					
8/19/2021									<0.1
8/20/2021						0.091 (J)	<0.1	0.11	
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								0.087 (J)	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
2/9/2022	<0.1	<0.1	<0.1	0.1	<0.1				
2/10/2022						0.059 (J)	<0.1		<0.1
2/11/2022									
8/30/2022	<0.1	<0.1		0.1	<0.1				
8/31/2022			<0.1				0.082 (J)		0.076 (J)
9/1/2022						0.1		0.12	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/27/2019	0.22 (J)	0.15 (J)	0.14 (J)			0.12 (J)		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								<0.1
3/27/2019				0.081 (J)			<0.1	
3/28/2019								
3/29/2019						0.13 (J)		
4/1/2019		0.059 (J)	0.078 (J)					
4/2/2019	0.14 (J)							
4/3/2019								
6/12/2019					0.12 (J)			
8/19/2019					<0.1			
8/20/2019				<0.1				
8/21/2019							<0.1	<0.1
9/24/2019						0.081 (J)		
9/25/2019		0.054 (J)						
9/26/2019	0.28 (J)		0.29 (J)					
10/8/2019				0.034 (J)	0.052 (J)			
10/9/2019							<0.1	<0.1
2/10/2020								
2/11/2020						0.075 (J)		
2/12/2020							<0.1	<0.1
2/13/2020	0.18 (J)	0.053 (J)	0.14 (J)					
3/17/2020				<0.1	0.053 (J)			
3/18/2020								
3/19/2020	0.16 (J)		0.07 (J)			0.093 (J)		
3/20/2020		0.057 (J)						
3/24/2020								<0.1
3/25/2020							<0.1	
8/26/2020					0.068 (J)			
8/27/2020				<0.1				
9/22/2020				<0.1	0.058 (J)			
9/23/2020						0.08 (J)		
9/24/2020	0.16	0.06 (J)	0.073 (J)				<0.1	<0.1
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021						0.094 (J)	<0.1	<0.1
2/11/2021			0.066 (J)					
2/12/2021	0.069 (J)	0.17						
3/1/2021				<0.1				
3/2/2021					0.073 (J)			
3/3/2021	0.13	0.056 (J)	0.072 (J)			0.085 (J)		
3/4/2021							<0.1	<0.1
8/19/2021				<0.1				
8/20/2021	0.2	0.069 (J)	0.11		0.06 (J)			
8/26/2021							0.063 (J)	
8/27/2021						0.12		
9/1/2021								
9/3/2021								<0.1
2/8/2022	0.14	0.053 (J)	0.063 (J)	<0.1	0.064 (J)		0.052 (J)	<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/9/2022						0.094 (J)		
2/10/2022								
2/11/2022								
8/30/2022					0.086 (J)	0.12		
8/31/2022				0.065 (J)			0.065 (J)	0.05 (J)
9/1/2022	0.16	0.091 (J)	0.11					

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/13/2022 3:52 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5D (bg)
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018						5.63			7.13
10/1/2018		5.9	6.8	7.47	7.39			5.39	
10/2/2018							5.39		
10/3/2018									
2/25/2019	6.51								
2/26/2019							5.77	5.46	
2/27/2019		5.8	6.84	7.54	7.55				
3/4/2019						5.75			7.46
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019		6.15	6.99						
3/29/2019								5.34	
4/1/2019				7.74	7.87		5.62		
4/2/2019									
4/3/2019						5.63			7.11
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
9/24/2019		6.23	7.07			5.6			6.93
9/25/2019				7.47	7.64		5.69	5.19	
9/26/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020		6.1	7.2						
2/11/2020				7.09					
2/12/2020					7.83	5.83	5.8	5.48	7.52
2/13/2020									
3/17/2020	6.14								
3/18/2020		6.19						5.38	
3/19/2020			7.03	7.31	7.65		6		
3/20/2020									
3/24/2020						5.81			7.34
3/25/2020									
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020									
9/22/2020	5.78					5.99			7.19
9/23/2020		6.01	7.15	7.37	7.57				
9/24/2020							5.67		
9/25/2020								5.44	
2/8/2021						5.67			
2/9/2021									
2/10/2021				7.58	7.81			5.35	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-26S	YGWC-27I	YGWC-27S
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	6.36								
6/6/2016		5.71	6.17						
6/7/2016				5.77	6.1	5.62			
6/8/2016							5.24	6.32	6.24
6/9/2016									
7/25/2016									
7/26/2016	6.22								
7/27/2016		5.46	6.14	5.79		5.59			
7/28/2016					6.12				
8/1/2016							5.17	6.34	6.12
8/2/2016									
8/30/2016									
9/13/2016									
9/14/2016	6.23								
9/15/2016									
9/16/2016						5.58			
9/19/2016		5.59	6.04	5.73	6.12				
9/20/2016							5.35	6.36	6.3
9/21/2016									
11/1/2016									
11/2/2016	6.08			5.67					
11/3/2016		5.39	5.97		6.07	5.59			
11/4/2016									
11/7/2016							5.35	6.3	6.25
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		5.48	6.05			5.59			
1/12/2017									
1/13/2017	6.19			5.79	6.41				
1/16/2017									
1/18/2017							5.2	6.31	
1/19/2017									6.2
2/21/2017							5.14		
2/22/2017									6.14
2/23/2017							6.18		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-26S	YGWC-27I	YGWC-27S
2/24/2017									
3/1/2017		5.41	5.94						
3/2/2017						5.54			
3/3/2017									
3/6/2017	6.2			5.63	6.34				
3/7/2017									
3/8/2017									
4/26/2017		5.4	5.99	5.66	6.32				
4/27/2017									
4/28/2017									
5/1/2017	6.21								
5/2/2017						5.47			
5/3/2017							5.28		
5/5/2017									
5/8/2017								6.24	6.11
5/26/2017									
6/27/2017									
6/28/2017		5.36	6						
6/29/2017	6.21			5.85	6.47	5.56			
6/30/2017								6.21	6.17
7/5/2017									
7/7/2017									
7/10/2017							5.25		
7/11/2017									
7/17/2017									
10/3/2017					6.56				
10/4/2017		5.32		5.83		5.57			
10/5/2017	6.16		6.11						
10/6/2017									6.13
10/9/2017								6.26	
10/10/2017							5.17		
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									
3/28/2018		5.34	6.1			5.59			
3/29/2018	6.09			5.93	6.75			6.36	6.25
3/30/2018							5.19		
4/2/2018									
4/3/2018									
6/5/2018					6.09				
6/6/2018				5.86					
6/7/2018	6.12		5.98						
6/8/2018									
6/11/2018		5.28				5.58			
6/12/2018									6.22
6/13/2018							5.12	6.28	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-26S	YGWC-27I	YGWC-27S
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018		4.86	5.81	5.84	6.67	5.59			
9/26/2018	5.84								
10/1/2018									
10/2/2018							4.95	5.9	5.99
10/3/2018									
2/25/2019									
2/26/2019									
2/27/2019							5	6.31	6.26
3/4/2019	6.18								
3/5/2019		5.26		6.07	7.22	5.48			
3/6/2019			5.99						
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								6.43	6.4
4/2/2019					6.94	5.74	5.13		
4/3/2019	6.43	5.47	6.29	5.71					
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019					6.87				
9/25/2019	6.2			5.86		5.49	5.24		
9/26/2019		5.2	6.04					6.3	6.22
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020		5.3	6.07			5.58			
2/12/2020	6.15			6	7.13				
2/13/2020							5.29	6.4	6.31
3/17/2020									
3/18/2020									
3/19/2020							5.46		
3/20/2020								6.32	6.18
3/24/2020		5.33	5.98	5.86	6.35	5.57			
3/25/2020	6.26								
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020	5.8								
9/23/2020		5.29	6.01			5.58			
9/24/2020				5.8	6.7		5.46	6.36	6.27
9/25/2020									
2/8/2021									
2/9/2021	6.06	5.43	6.12	5.86	6.95				
2/10/2021							5.18	6.29	6.21

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/24/2017					5.49			
3/1/2017								
3/2/2017								
3/3/2017						7.22		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						7.21		
5/1/2017								
5/2/2017								
5/3/2017								
5/5/2017		6.4		6.36				
5/8/2017	5.84		6.11		5.58			
5/26/2017						7.13		
6/27/2017								
6/28/2017						7.06		
6/29/2017								
6/30/2017								
7/5/2017			6.17	6.4				
7/7/2017		6.46						
7/10/2017	5.92							
7/11/2017					5.58			
7/17/2017								
10/3/2017						6.99		
10/4/2017								
10/5/2017			6.17	6.43				
10/6/2017								
10/9/2017		6.37						
10/10/2017	5.84				5.49			
10/11/2017							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			6.09					
3/30/2018	6.19	6.35		6.39				
4/2/2018					6.3 (o)			
4/3/2018							6.87	5.84
6/5/2018								
6/6/2018								
6/7/2018						7.29		
6/8/2018								
6/11/2018			6.17					
6/12/2018		6.47		6.42				
6/13/2018	5.82							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/28/2018							6.18	5.24
8/6/2018								
8/7/2018							6.08	5.18
9/19/2018					5.48			
9/24/2018							5.81	5.14
9/25/2018								
9/26/2018								
10/1/2018						7.07		
10/2/2018	5.81		6.17					
10/3/2018		6.01		6.21				
2/25/2019								
2/26/2019								
2/27/2019	5.79	6.38	6.19	6.32		7.27		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								5.3
3/27/2019					5.83		5.84	
3/28/2019								
3/29/2019						7.06		
4/1/2019			6.03	6.3				
4/2/2019	5.87	6.7						
4/3/2019								
6/12/2019								
8/19/2019								
8/20/2019					5.58			
8/21/2019							5.96	5.26
9/24/2019						7.01		
9/25/2019	5.79		6.21					
9/26/2019		6.47		6.43				
10/8/2019					5.59			
10/9/2019							5.81	5.22
2/10/2020								
2/11/2020						7.38		
2/12/2020							5.97	5.3
2/13/2020	5.93	6.53	6.32	6.49				
3/17/2020					5.57			
3/18/2020								
3/19/2020		6.98		7.01		7.22		
3/20/2020	5.94		6.17					
3/24/2020								5.29
3/25/2020							5.78	
5/6/2020								
8/26/2020								
8/27/2020					4.88			
9/22/2020					5.46			
9/23/2020						7.22		
9/24/2020	5.86	6.53	6.2	6.41			5.7	5.43
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021	5.96					7.29	5.8	5.19

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/13/2022 3:52 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/11/2021				6.57				
2/12/2021		6.6	6.24					
3/1/2021					5.48			
3/2/2021								
3/3/2021	5.93	6.61	6.27	6.51		7.92		
3/4/2021							5.54	5.23
8/19/2021					5.5			
8/20/2021	5.78	6.38	6.07	6.23				
8/26/2021							6.91	
8/27/2021						7.14		
9/1/2021								
9/3/2021								4.75
2/8/2022		6.3	5.88	6.34	5.4		5.78	5.26
2/9/2022						5.89		
2/10/2022	5.84							
2/11/2022								
8/30/2022						7.04		
8/31/2022	5.77				5.32		5.3	4.53
9/1/2022		6.59	6.05	6.41				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	12	4.2	5						
6/2/2016				6.6	20	1.9	1.3	8	5.8
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	8.4	3.7					1.2		
7/26/2016			5.4	6.1	20	1.8		7.7	6.7
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		5.2	2.9						
9/14/2016	8.6				19	1.8		7.5	
9/15/2016				6.1					6
9/16/2016									
9/19/2016							1.2		
9/20/2016									
9/21/2016									
11/1/2016	8.9		3.9				1.3		4.9
11/2/2016				6.3	20			8.2	
11/3/2016									
11/4/2016		5				2			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				5.9					
1/11/2017	8.6		3.7						4.5
1/12/2017					19	1.9			
1/13/2017								8.1	
1/16/2017		7.9					<1		
1/18/2017									
1/19/2017									
2/21/2017							1.4		
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	9.3								
3/2/2017		7.4	4.6						4.4
3/3/2017									
3/6/2017								8	
3/7/2017					20	2.1			
3/8/2017				7					
4/26/2017	11			7			1.4		5.1
4/27/2017		7.4	5.2						
4/28/2017									
5/1/2017					20			8.4	
5/2/2017						2			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		6.4	5.9		18	2.1			
6/28/2017	12								5.4
6/29/2017								9.2	
6/30/2017				6.5			<1		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		5.9	6.6		16	2.3			
10/4/2017	12						1.4		6.2
10/5/2017				7.9				9.6	
10/6/2017									
10/9/2017									
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									
6/5/2018			6.4						
6/6/2018		4.4			8.3				
6/7/2018						2		8.5	6.7
6/8/2018	9.6			6.4					
6/11/2018							1.1		
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					7.9	2.3		10.2	
10/1/2018	9.1	4	5.6	6.8					7.1
10/2/2018							1		
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		4.3	8						
3/29/2019				7.3					
4/1/2019	8.5						0.96 (J)		7.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	1.2	1.8							
6/7/2016			5.2	<1	4.4				
6/8/2016						81	110	26	3.2
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.7	1.9		0.08 (J)	4.7				
7/28/2016			5.1						
8/1/2016						75	96	27	3.6
8/2/2016									
8/30/2016									
8/31/2016									
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)					
9/20/2016						78	100	21	5.6
9/21/2016									
11/1/2016									
11/2/2016				0.1 (J)					
11/3/2016	0.69 (J)	1.9	5		5.3				
11/4/2016									
11/7/2016						81	100	24	5.4
11/8/2016									
11/14/2016									
11/28/2016									
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									
1/18/2017						95	100		3.5
1/19/2017								25	
2/21/2017						80	96		
2/22/2017								24	
2/23/2017									4.9
2/24/2017									
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				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-27I
5/3/2017							100		
5/5/2017									
5/8/2017						84		23	3.9
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.5	<1	5.2				
6/30/2017								23	5
7/5/2017									
7/7/2017									
7/10/2017						84	100		
7/11/2017									
7/17/2017									
10/3/2017			5.8						
10/4/2017		1.7		<1	5.3				
10/5/2017	1.6								
10/6/2017								23	
10/9/2017									5.1
10/10/2017						82	97		
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									
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				
6/12/2018								18.1	
6/13/2018						76.5	93.3		6.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	1	1.5	7	0.13 (J)	6.1				
9/26/2018									
10/1/2018									
10/2/2018						83.9	99	20.2	6.1
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								18.3	4.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-27I
4/2/2019			3.8		5.1	77.6	94.5		
4/3/2019	0.82 (J)	1.3		0.12 (J)					
6/12/2019									
9/24/2019			1						
9/25/2019				<1	5.5	80.1	97		
9/26/2019	0.64 (J)	1						18.2	4.2
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020							99.4		
3/20/2020						84.7		21.1	5.2
3/24/2020	<1	0.99 (J)	3	<1	5.4				
3/25/2020									
9/22/2020									
9/23/2020	0.53 (J)	1.1			5.1				
9/24/2020			3.6	<1		85.6	92.3	16.6	3
9/25/2020									
3/1/2021									
3/2/2021							92.7		
3/3/2021	<1	1		<1	5.2	89.3		451 (o)	2.6
3/4/2021			4.5						
8/19/2021							86.5		
8/20/2021						84		18	2.9
8/26/2021		1.2							
8/27/2021	0.59 (J)			<1	5.3				
9/1/2021			5						
9/3/2021									
2/8/2022								16.3	
2/9/2022	0.51 (J)	1.1	3.9	<1	4.8				
2/10/2022						81.8	86.5		2.4
2/11/2022									
8/30/2022	0.78 (J)	1.3	3.2		4.7				
8/31/2022				<1		85.9	90.2		
9/1/2022								13.5	2.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	<1 (*)		<1 (*)					
5/8/2017		32		120	60			
5/26/2017						12		
6/27/2017								
6/28/2017						11		
6/29/2017								
6/30/2017								
7/5/2017	8.1	31						
7/7/2017			2.7					
7/10/2017								
7/11/2017				110				
7/17/2017					63			
10/3/2017						7.9		
10/4/2017								
10/5/2017	8.6	31						
10/6/2017								
10/9/2017			2.9					
10/10/2017				93				
10/11/2017							20	
10/12/2017								17
10/16/2017					62			
11/20/2017							24	71
1/10/2018								66
1/11/2018							23	
2/19/2018					64.6			57.2
2/20/2018							20.6	
4/2/2018				88.8				
4/3/2018							24.5	49.4
6/5/2018								
6/6/2018								
6/7/2018						8.8		
6/8/2018								
6/11/2018		30.6						
6/12/2018	8.2		2.9					
6/13/2018								
6/28/2018							22	43.8
8/6/2018					42.1			
8/7/2018							20.7	40.5
9/19/2018				75				
9/24/2018							21.2	39.7
9/25/2018								
9/26/2018								
10/1/2018						9.1		
10/2/2018		30.8						
10/3/2018	8		2.1					
2/25/2019					42.1			
3/26/2019								34.3
3/27/2019				65.9			17.7	
3/28/2019								
3/29/2019						9		
4/1/2019	8.2	30.4						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019			2.4					
4/3/2019								
6/12/2019					83.4			
9/24/2019						9.1		
9/25/2019		30						
9/26/2019	7.9		1.6					
10/8/2019				52.3	128			
10/9/2019							15	27.9
3/17/2020				71.6	98.6			
3/18/2020								
3/19/2020	9.1		1.7			12.4		
3/20/2020		33						
3/24/2020								25.2
3/25/2020							14.3	
9/22/2020				51.5	145			
9/23/2020						11.8		
9/24/2020	7.2	26.2	0.99 (J)				11.7	22.9
9/25/2020								
3/1/2021				51.6				
3/2/2021					156			
3/3/2021	8.6	26.6	4.9			10.6		
3/4/2021							12	21.5
8/19/2021				52.6				
8/20/2021	8.9	24.7	5.4		121			
8/26/2021							19.2	
8/27/2021						16.7		
9/1/2021								
9/3/2021								21.3
2/8/2022	8.1	22.9	10.5	50.9	107		14.6	17.9
2/9/2022						18		
2/10/2022								
2/11/2022								
8/30/2022					101	20.1		
8/31/2022				48			10.9	17.9
9/1/2022	7.6	21.2	13.4					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III - Parametric

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		89	42		189				73
6/28/2017	126							169	
6/29/2017						79			
6/30/2017				45			42		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		119	58		170				89
10/4/2017	147						31	141	
10/5/2017				40		95			
10/6/2017									
10/9/2017									
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									
6/5/2018		127							
6/6/2018			96		151				
6/7/2018						90		95	142
6/8/2018	158			114					
6/11/2018							59		
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					144	116			86
10/1/2018	138	117	60	50				165	
10/2/2018							57		
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		87	87						
3/29/2019				63					
4/1/2019	19 (J)						54	149	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III - Parametric
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	120	58							
6/7/2016			28	60	38				
6/8/2016						200	210	220	190
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	94	35	74		74				
7/28/2016				81					
8/1/2016						191	209	211	191
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		35	67						
9/19/2016	92			68	45				
9/20/2016						213	224	217	205
9/21/2016									
11/1/2016									
11/2/2016					53				
11/3/2016	104	48	41	61					
11/4/2016									
11/7/2016						284	291	301	264
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	133	95	104						
1/12/2017									
1/13/2017				76	46				
1/16/2017									
1/18/2017						158 (D)		265 (D)	167 (D)
1/19/2017							215 (D)		
2/21/2017						137		158	
2/22/2017							262		
2/23/2017									253
2/24/2017									
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						

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III - Parametric

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
5/3/2017						269			
5/5/2017									
5/8/2017							187	207	174
5/26/2017									
6/27/2017									
6/28/2017	98	45							
6/29/2017			53	94	68				
6/30/2017							209		193
7/5/2017									
7/7/2017									
7/10/2017						183		219	
7/11/2017									
7/17/2017									
10/3/2017				149					
10/4/2017		45	61		54				
10/5/2017	104								
10/6/2017							183		
10/9/2017									185
10/10/2017						179		194	
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									
6/5/2018				109					
6/6/2018					79				
6/7/2018	68								
6/8/2018									
6/11/2018		74	70						
6/12/2018							208		
6/13/2018						196		228	219
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	109	63	86	122	73				
9/26/2018									
10/1/2018									
10/2/2018						191	206	227	227
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							221		198

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III - Parametric
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-26I	YGWC-27I
4/2/2019			72	134		224		223	
4/3/2019	89	63			57				
6/12/2019				157					
9/24/2019			81		75	190		225	
9/25/2019	126	72					225		198
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020						194			
3/20/2020							182	211	195
3/24/2020	91	59	71	117	76				
3/25/2020									
9/22/2020									
9/23/2020	103	81	99						
9/24/2020				113	69	171	185	212	186
9/25/2020									
3/1/2021									
3/2/2021						154			
3/3/2021	95	37	57		53		178	205	173
3/4/2021				110					
8/19/2021						176			
8/20/2021							169	224	196
8/26/2021		31							
8/27/2021	112		93		67				
9/1/2021				137					
9/3/2021									
2/8/2022							159		
2/9/2022	103	60	81	131	72				
2/10/2022						168		207	190
2/11/2022									
8/30/2022	100	52	81	122					
8/31/2022					62	206		228	
9/1/2022							124		193

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III - Parametric

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	347		289					
5/8/2017		114		194	145			
5/26/2017						223		
6/27/2017								
6/28/2017						166		
6/29/2017								
6/30/2017								
7/5/2017		136	217					
7/7/2017	236							
7/10/2017								
7/11/2017				193				
7/17/2017					185			
10/3/2017						153		
10/4/2017								
10/5/2017		139	221					
10/6/2017								
10/9/2017	204							
10/10/2017				175				
10/11/2017							68	
10/12/2017								74
10/16/2017					218			
11/20/2017							139	179
1/10/2018								140
1/11/2018							153	
2/19/2018					173			119
2/20/2018							87	
4/2/2018				192				
4/3/2018							85	106
6/5/2018								
6/6/2018								
6/7/2018						146		
6/8/2018								
6/11/2018		156						
6/12/2018	243		234					
6/13/2018								
6/28/2018							88	112
8/6/2018					158			
8/7/2018							89	103
9/19/2018				186				
9/24/2018							82	107
9/25/2018								
9/26/2018								
10/1/2018						155		
10/2/2018		154						
10/3/2018	237		232					
2/25/2019					92			
3/26/2019								90
3/27/2019				170			75	
3/28/2019								
3/29/2019						150		
4/1/2019		147	238					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/13/2022 3:52 PM View: Appendix III - Parametric

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	<25							
4/3/2019								
6/12/2019					226			
9/24/2019						146		
9/25/2019		162						
9/26/2019	239		241					
10/8/2019				172	276			
10/9/2019							119	98
3/17/2020				165	185			
3/18/2020								
3/19/2020	202		212			148		
3/20/2020		137						
3/24/2020								84
3/25/2020							158	
9/22/2020				141	281			
9/23/2020						161		
9/24/2020	226	133	209				170	77
9/25/2020								
3/1/2021				145				
3/2/2021					296			
3/3/2021	217	110	184			138		
3/4/2021							168	57
8/19/2021				134				
8/20/2021	192	110	194		254			
8/26/2021							249	
8/27/2021						150		
9/1/2021								
9/3/2021								88
2/8/2022	216	120	206	151	283		248	93
2/9/2022						156		
2/10/2022								
2/11/2022								
8/30/2022					244	153		
8/31/2022				116			242	92
9/1/2022	225	128	186					

FIGURE E.

Appendix III Trend Tests - Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:28 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWC-26I	-0.04321	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.02727	-92	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01529	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0435	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.3776	-77	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.5557	-95	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4528	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5433	127	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.1027	78	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1337	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.326	66	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.7454	-124	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2567	74	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:28 PM

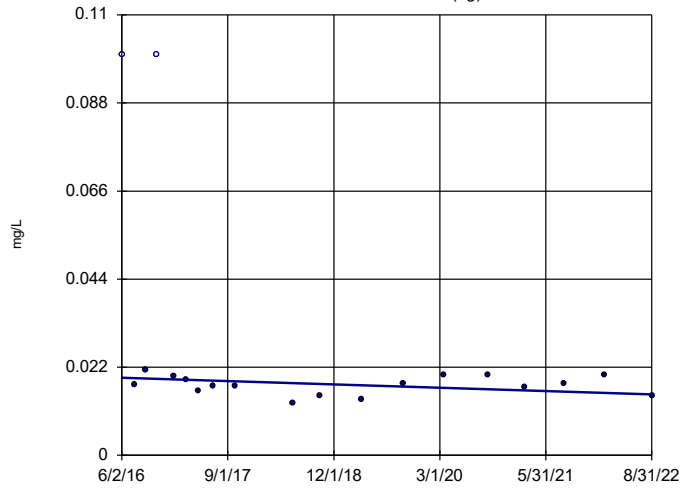
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.000665	-40	-74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0008221	34	74	No	19	36.84	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-11 (bg)	0	-8	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-6	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-19	-74	No	19	84.21	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	0	74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-17	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26I	-0.04321	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26S	0.01343	55	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.06844	60	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	-0.04234	-52	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	-0.02927	-18	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	0	-5	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.02727	-92	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0008357	-55	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0001704	22	74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-22	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.000309	24	74	No	19	21.05	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-9	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.0004731	-56	-74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.01331	56	58	No	16	6.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01529	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	1	74	No	19	68.42	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	31	74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-25	-74	No	19	63.16	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	23	63	No	17	64.71	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1251	51	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-37	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-11 (bg)	-0.01802	-38	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.02221	-34	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-8	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0435	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.02929	-65	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.3776	-77	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.5557	-95	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27I	0	-21	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28S	-0.2465	-49	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4528	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5433	127	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.1027	78	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.1557	72	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1337	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21I (bg)	-0.1148	-56	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.768	51	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.326	66	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.08123	41	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.7454	-124	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5I (bg)	0	5	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2567	74	63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:28 PM

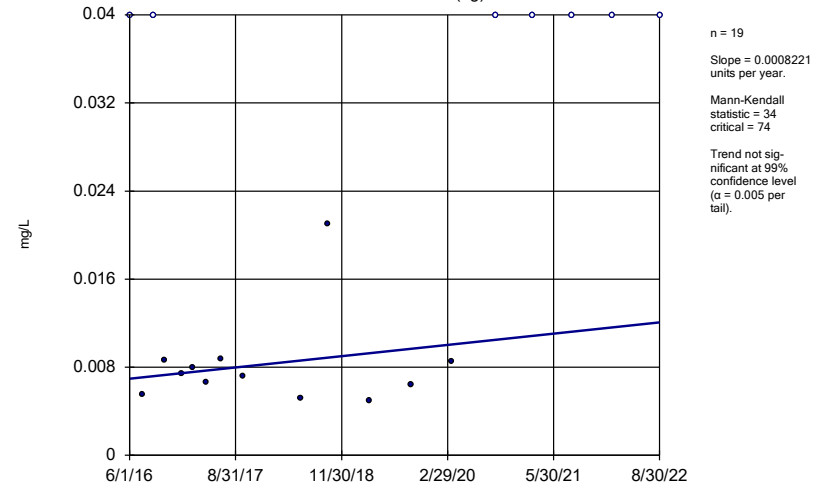
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	0.3698	12	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	0.7444	13	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-11 (bg)	-2.443	-37	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-1.72	-28	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	2.114	27	74	No	19	10.53	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	0.7739	9	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	0.954	9	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-26I	-0.5252	-6	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-28S	-1.335	-9	-74	No	19	5.263	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	3.694	44	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-0.8196	-19	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	0.4345	10	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	2.688	34	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	10.54	68	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-11.03	-58	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	0	-1	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	0	3	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP

Sen's Slope Estimator YGWA-14S (bg)



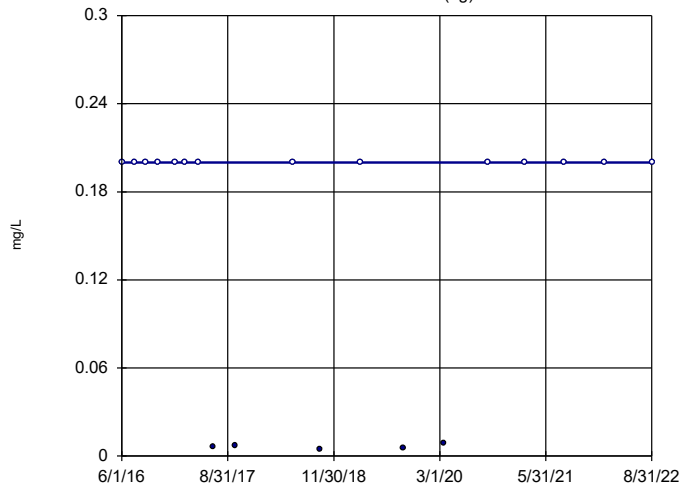
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-1D (bg)



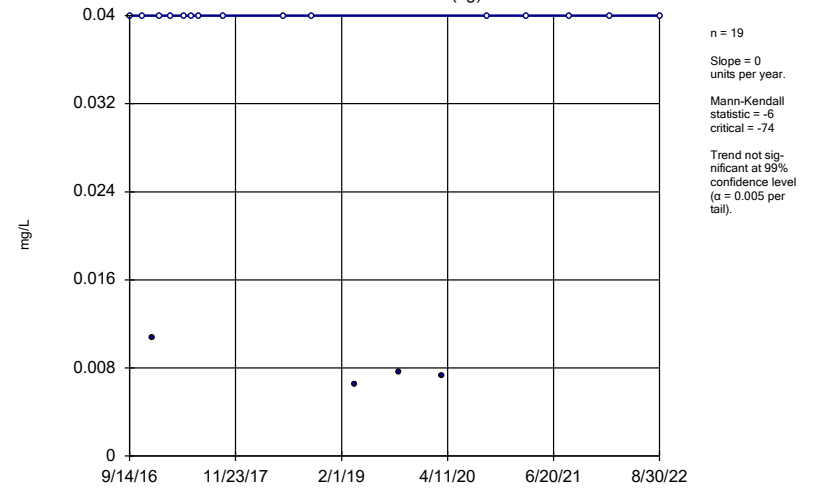
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



Constituent: Boron Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

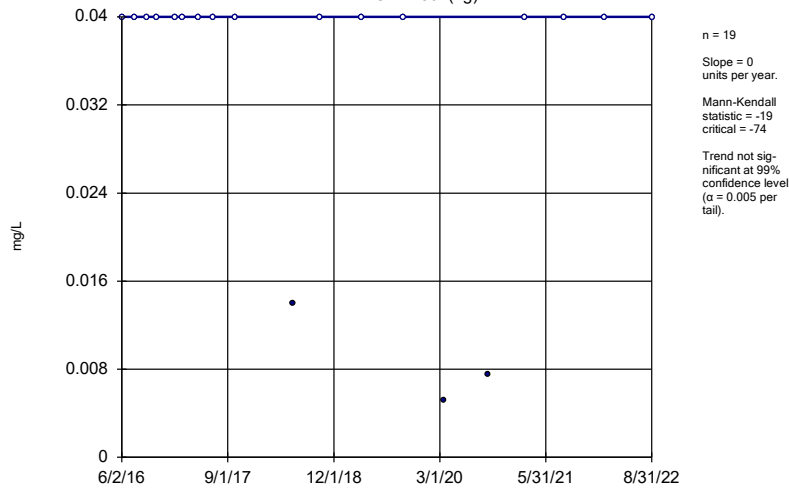
Sen's Slope Estimator YGWA-2I (bg)



Constituent: Boron Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

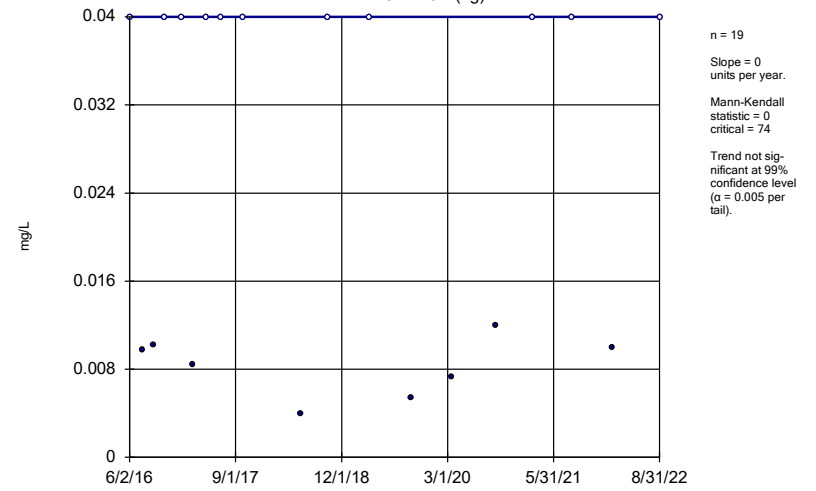
YGWA-30I (bg)



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

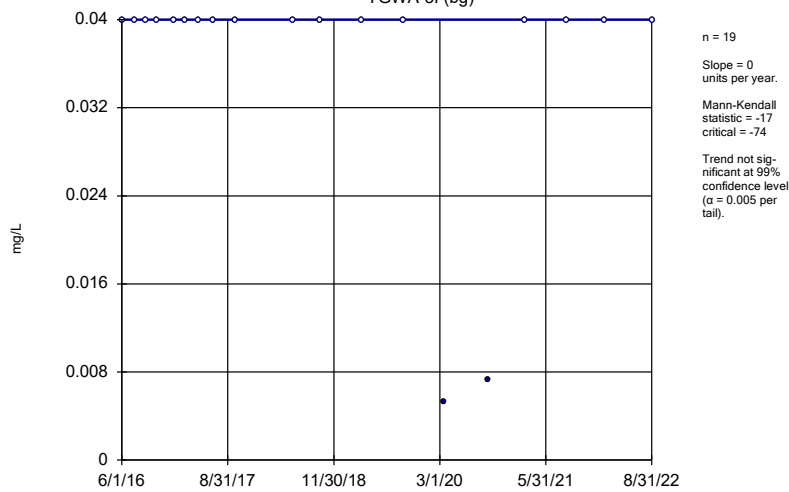
YGWA-3D (bg)



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

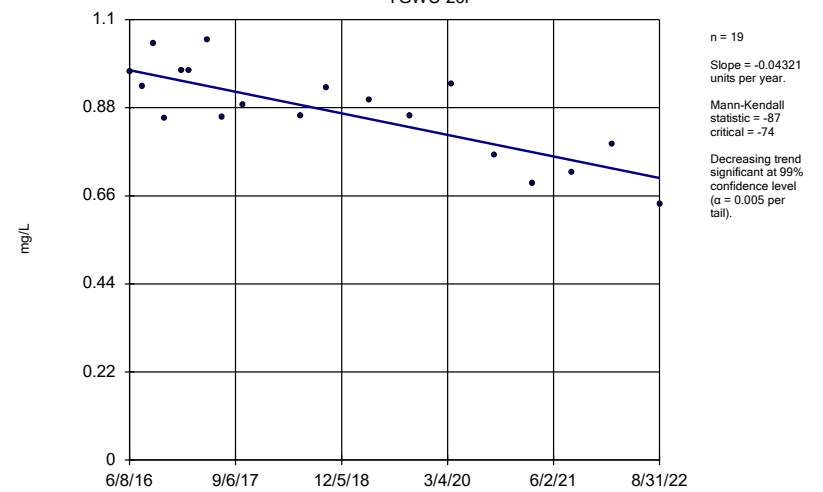
YGWA-3I (bg)



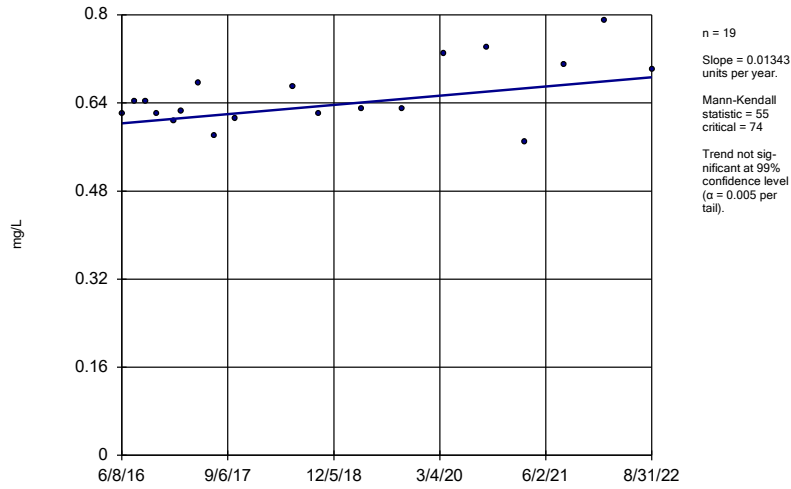
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26I

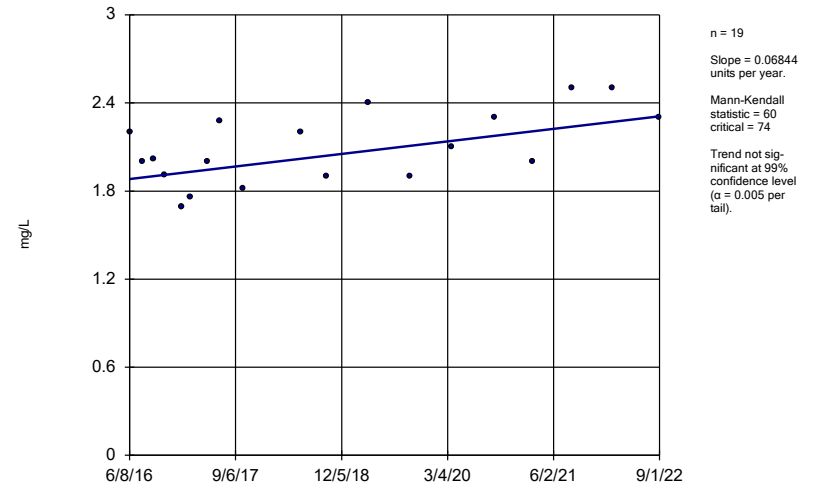


Sen's Slope Estimator YGWC-26S



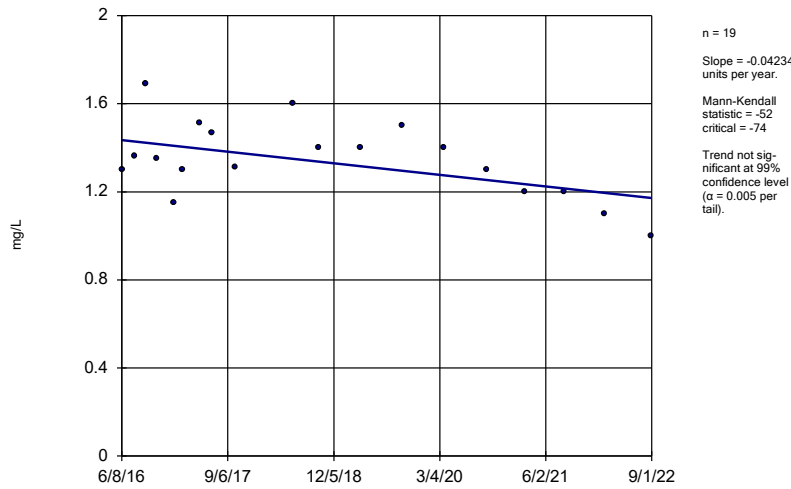
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



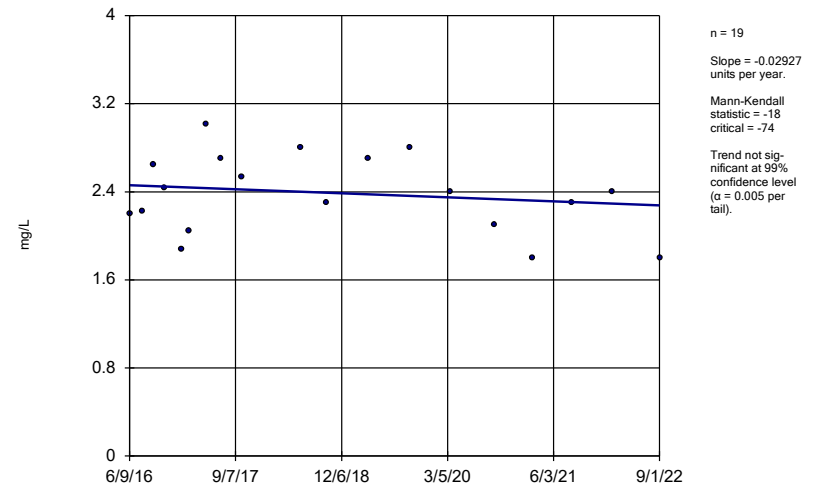
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



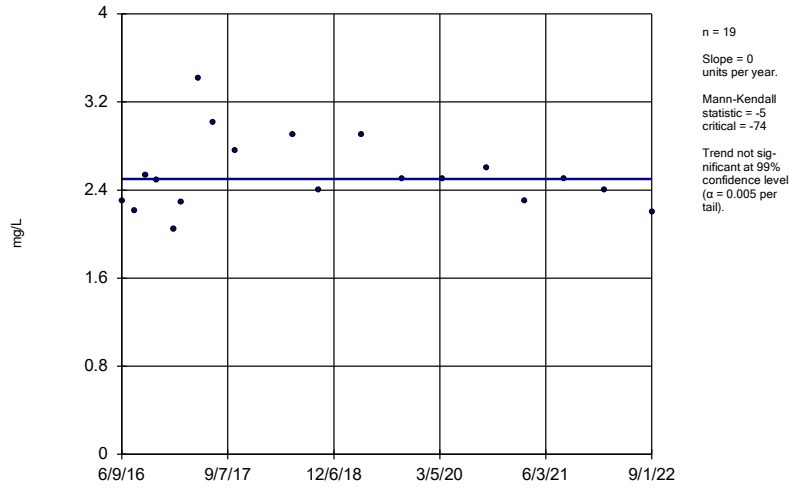
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



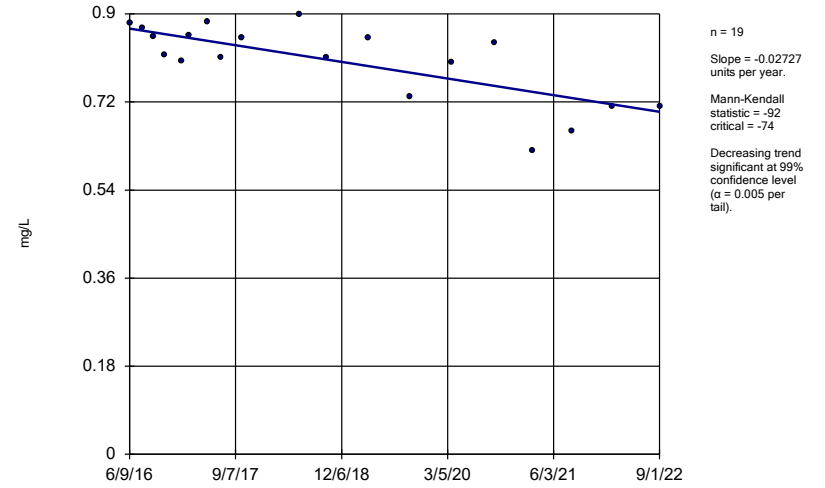
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-28S



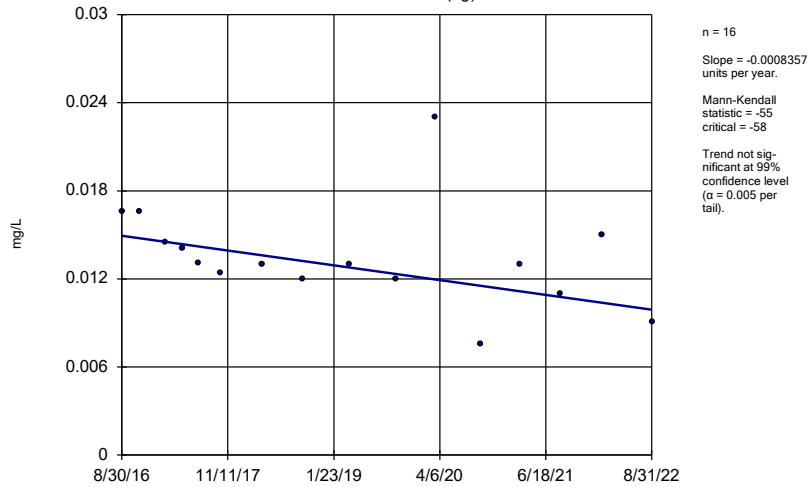
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-29I



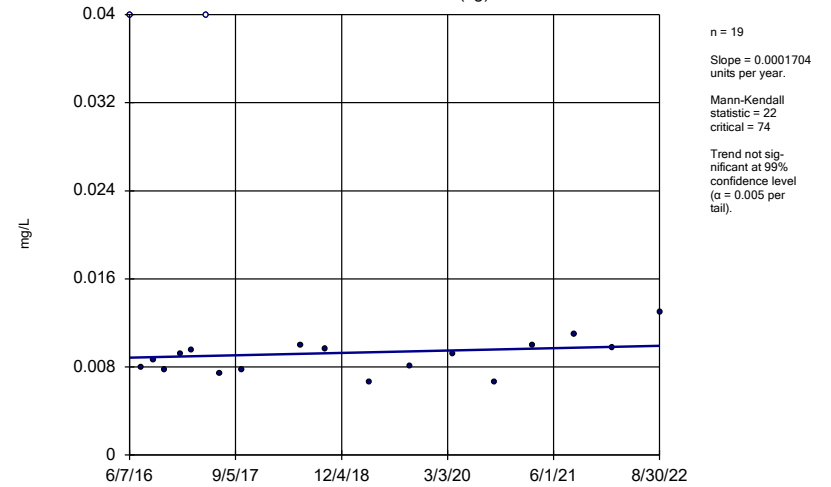
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-47 (bg)



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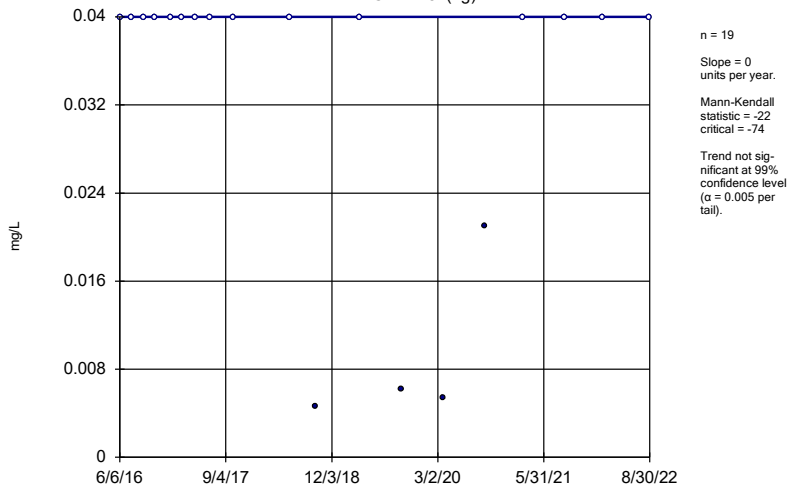
Sen's Slope Estimator
YGWA-17S (bg)



Constituent: Boron Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

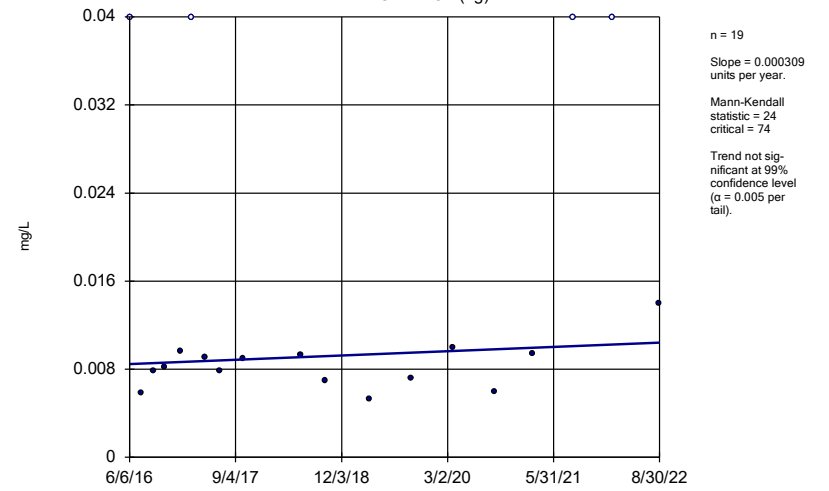
YGWA-18I (bg)



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Sen's Slope Estimator

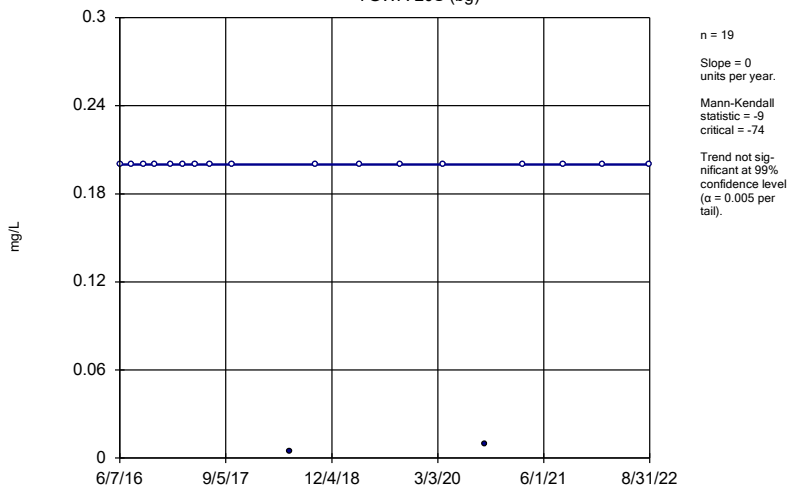
YGWA-18S (bg)



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Sen's Slope Estimator

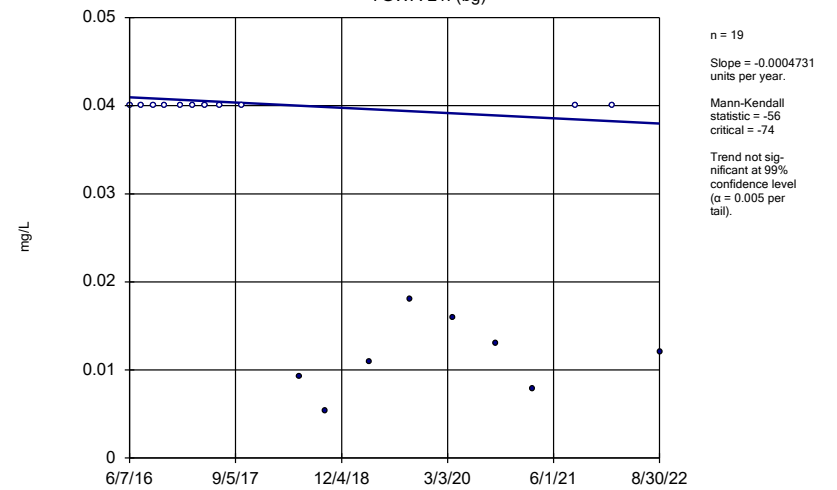
YGWA-20S (bg)



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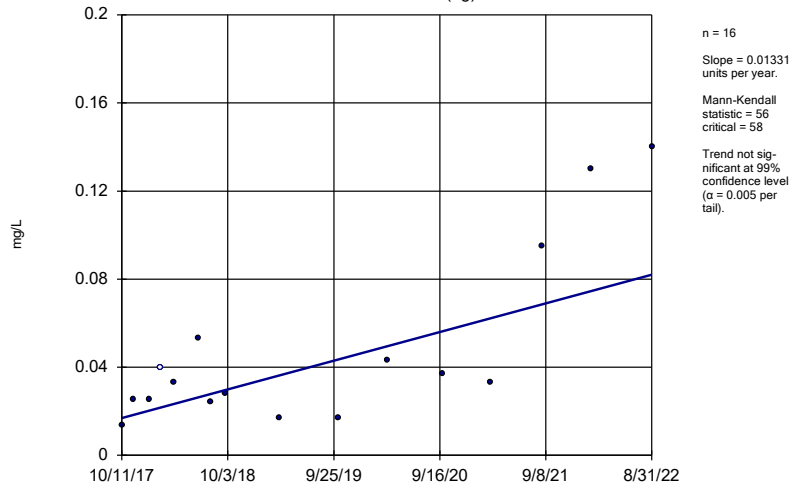
Sen's Slope Estimator

YGWA-21I (bg)



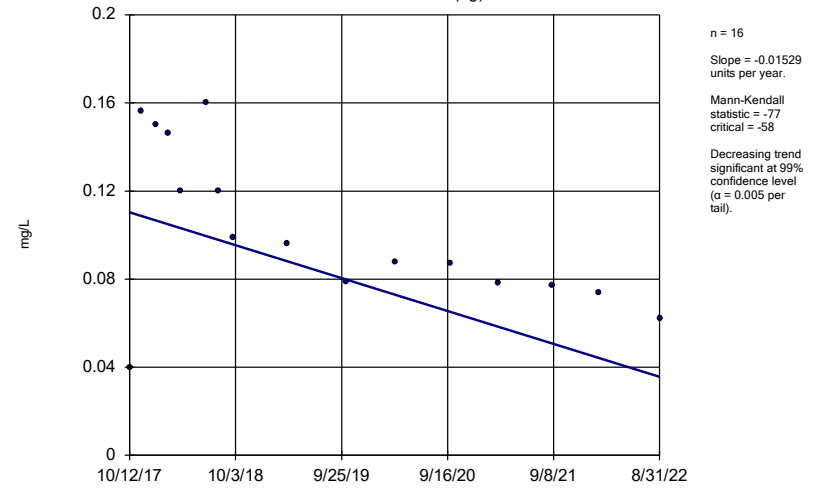
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-39 (bg)



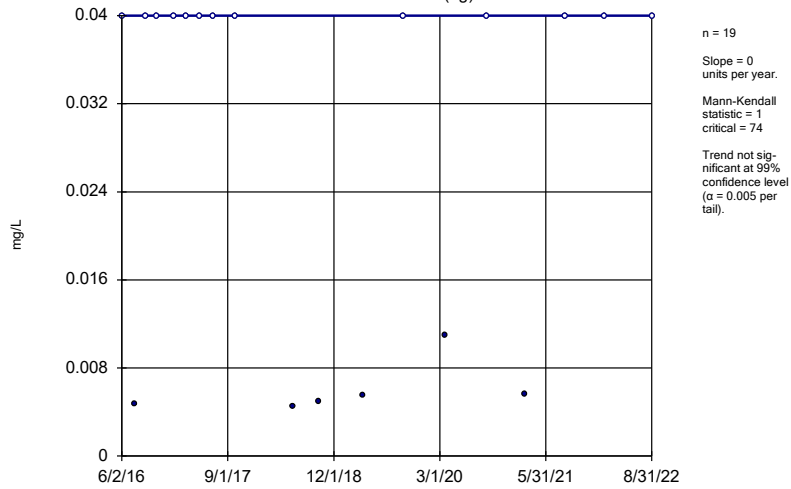
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-40 (bg)



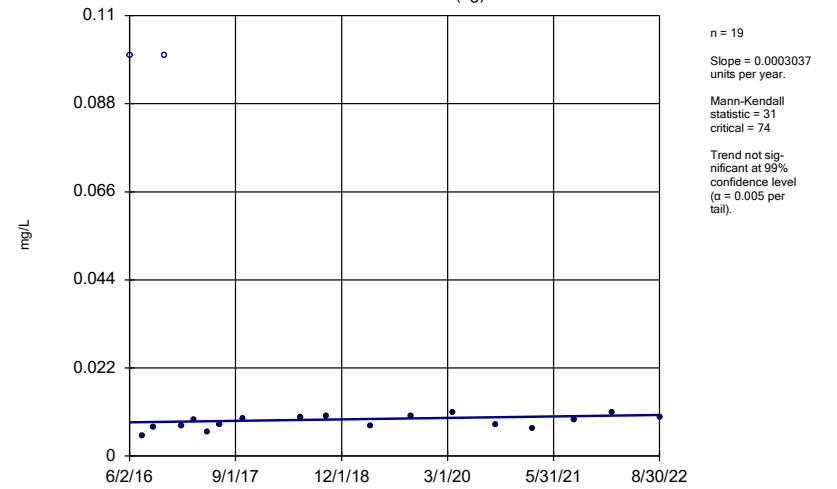
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-41 (bg)



Constituent: Boron Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

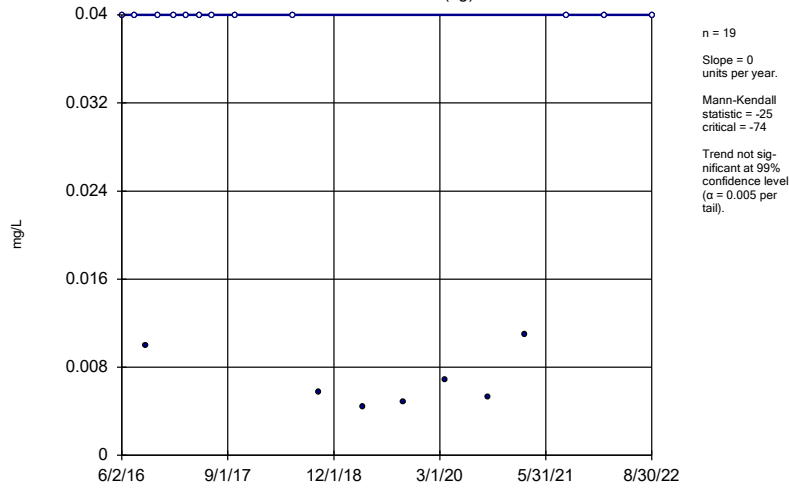
Sen's Slope Estimator YGWA-5D (bg)



Constituent: Boron Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

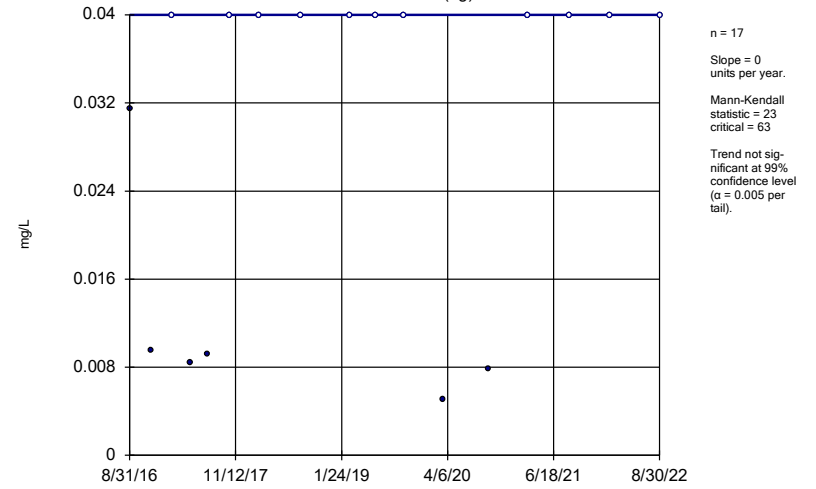
YGWA-5I (bg)



Constituent: Boron Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

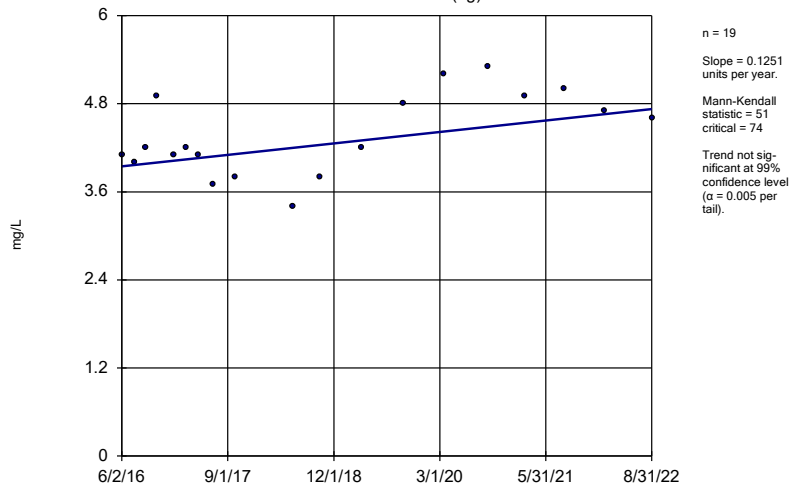
GWA-2 (bg)



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

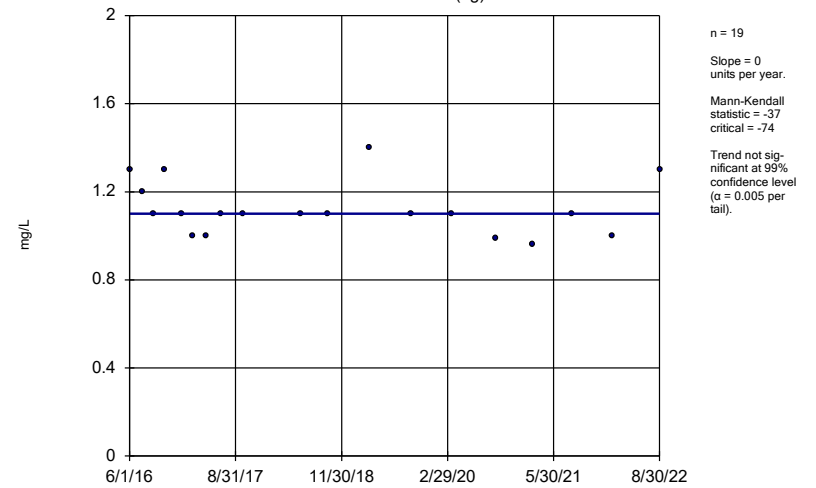
YGWA-14S (bg)



Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

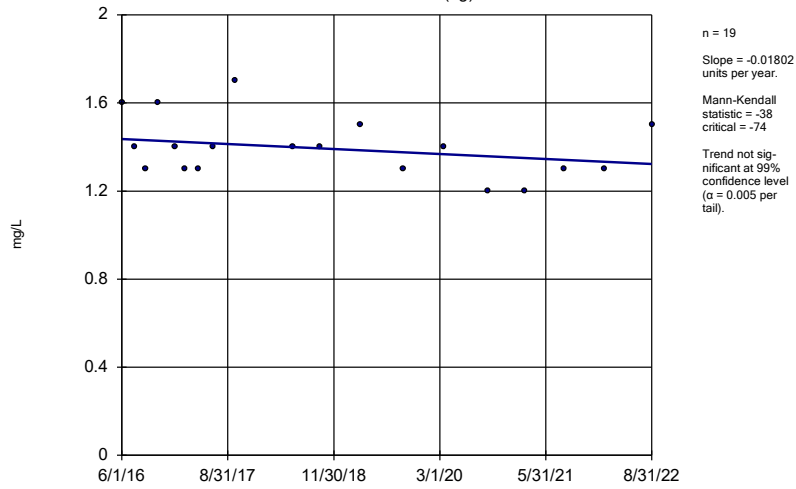
YGWA-1D (bg)



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

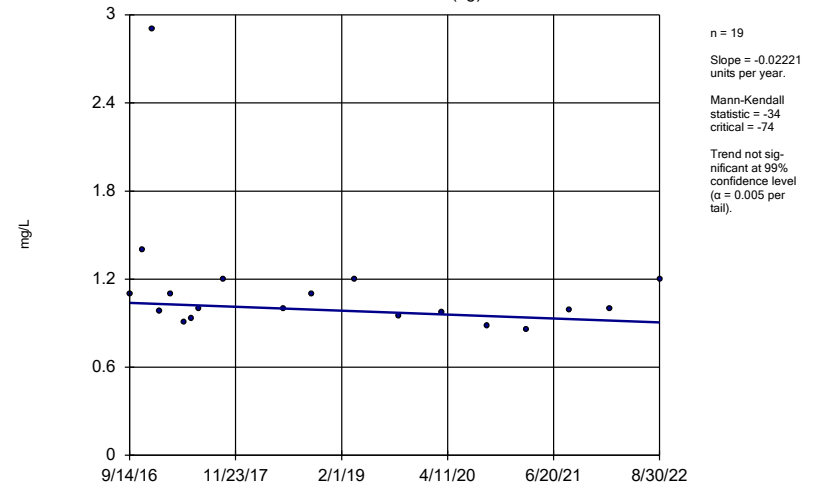
YGWA-11 (bg)



Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

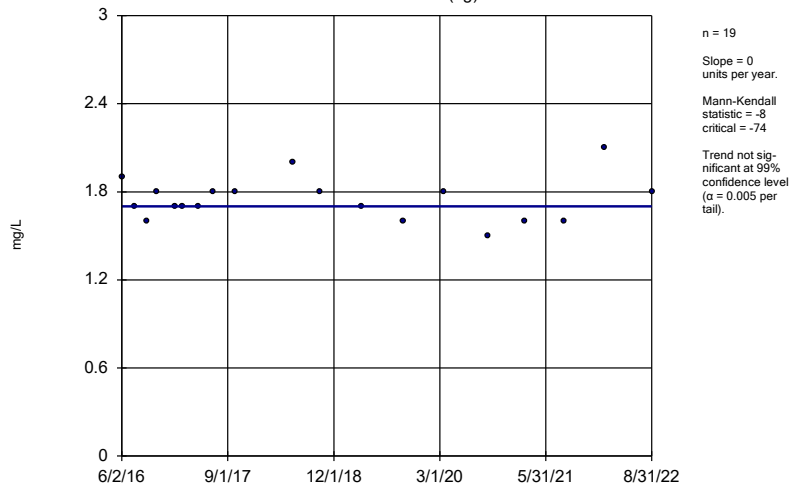
YGWA-21 (bg)



Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

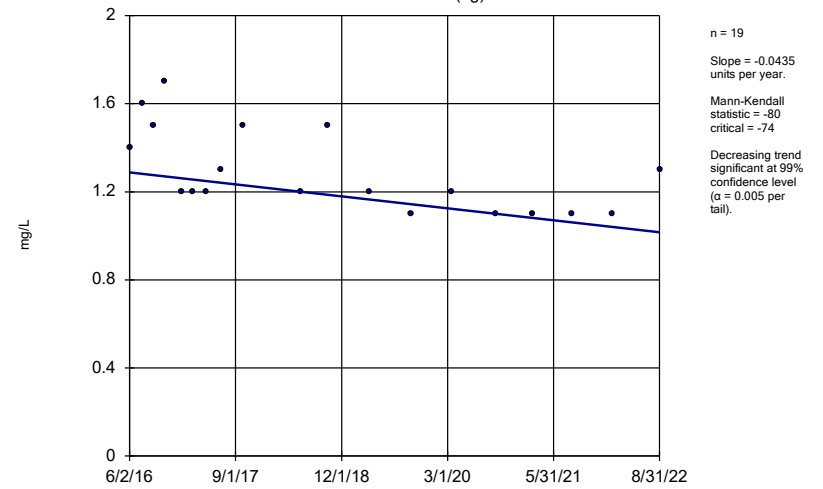
YGWA-30I (bg)



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

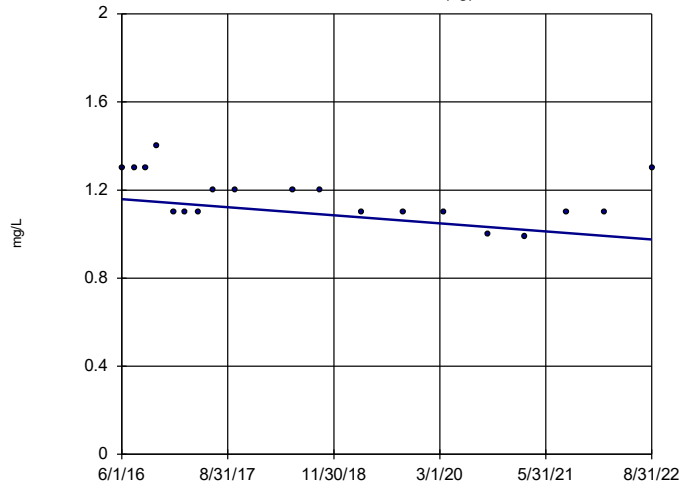
YGWA-3D (bg)



Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

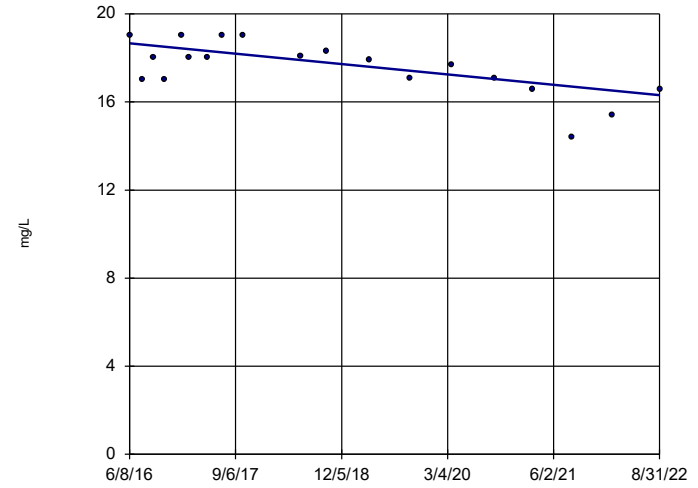


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 units per year.
 Mann-Kendall
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 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26I

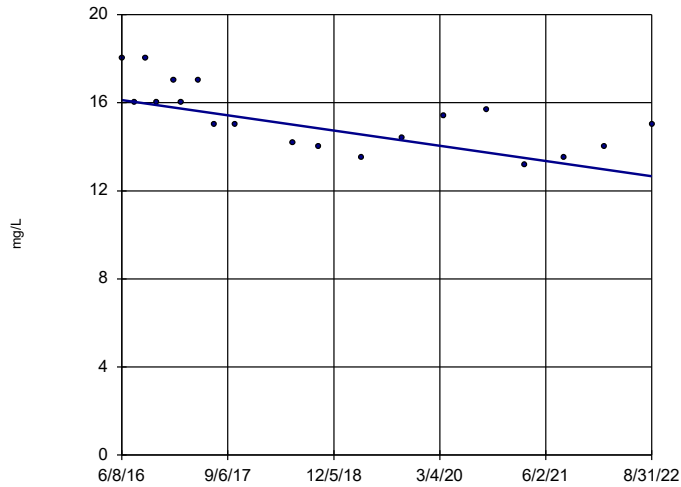


n = 19
 Slope = -0.3776
 units per year.
 Mann-Kendall
 statistic = -77
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26S

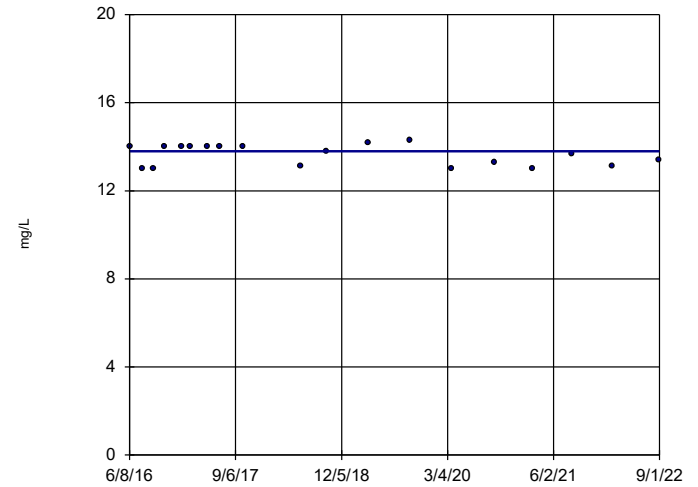


n = 19
 Slope = -0.5557
 units per year.
 Mann-Kendall
 statistic = -95
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

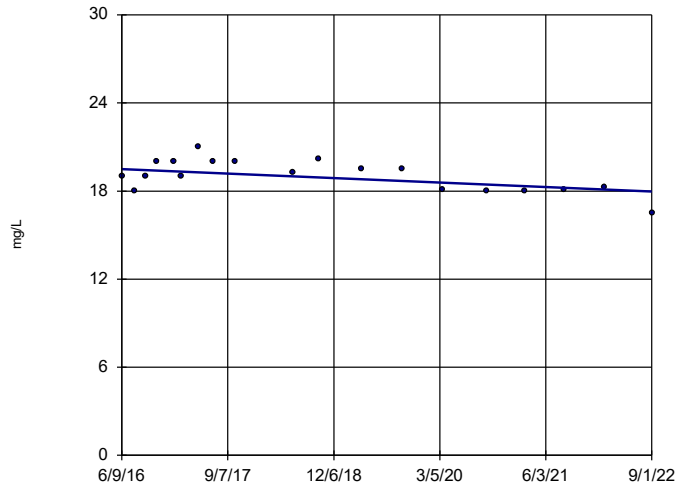
YGWC-27I



n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -21
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

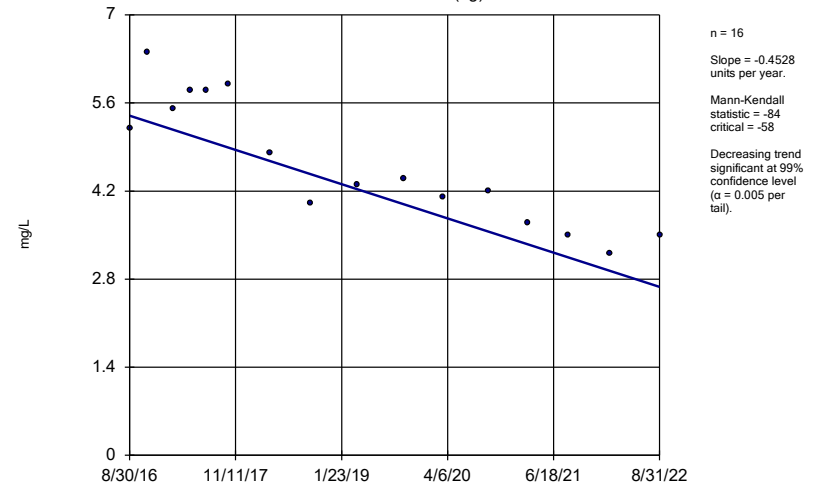
Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28S



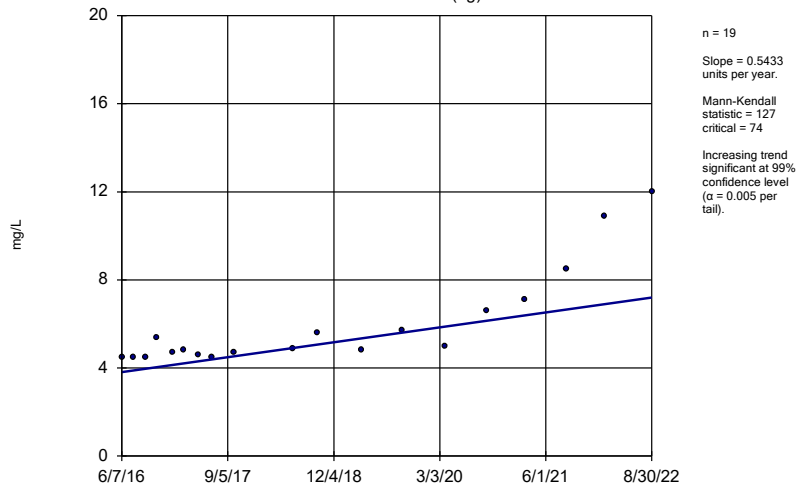
Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-47 (bg)



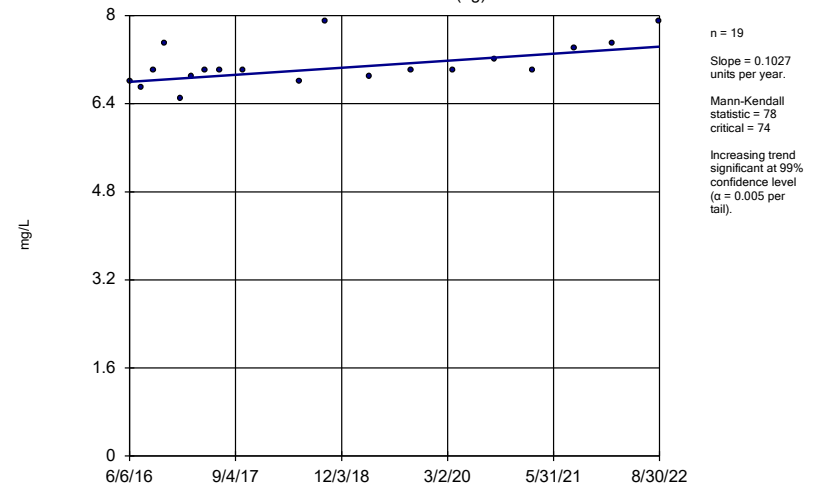
Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-17S (bg)



Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

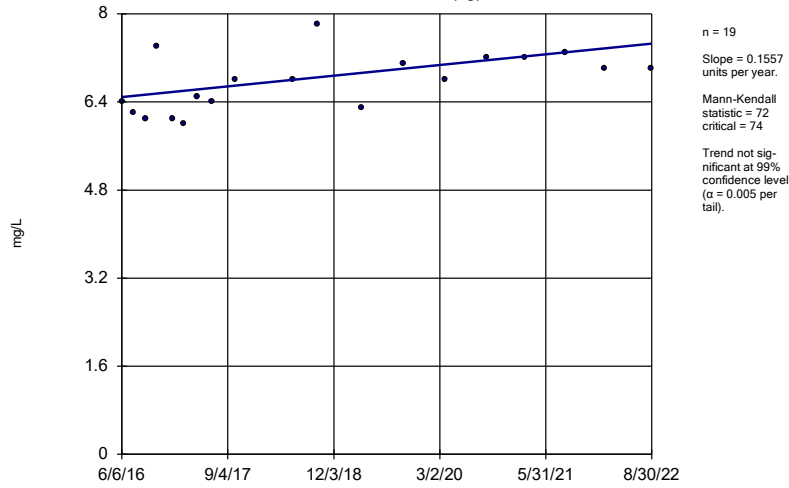
Sen's Slope Estimator YGWA-18I (bg)



Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

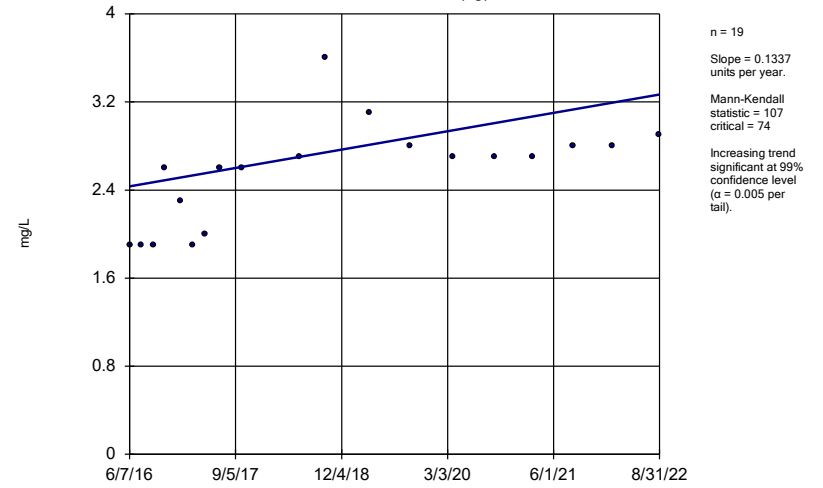
YGWA-18S (bg)



Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

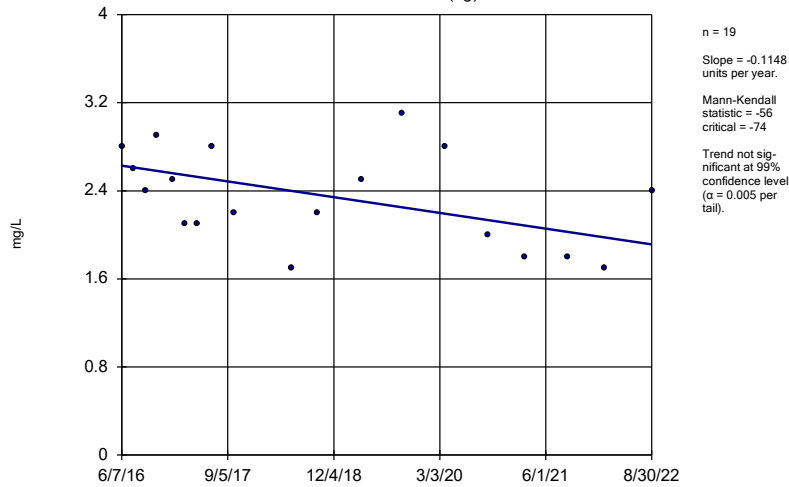
YGWA-20S (bg)



Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

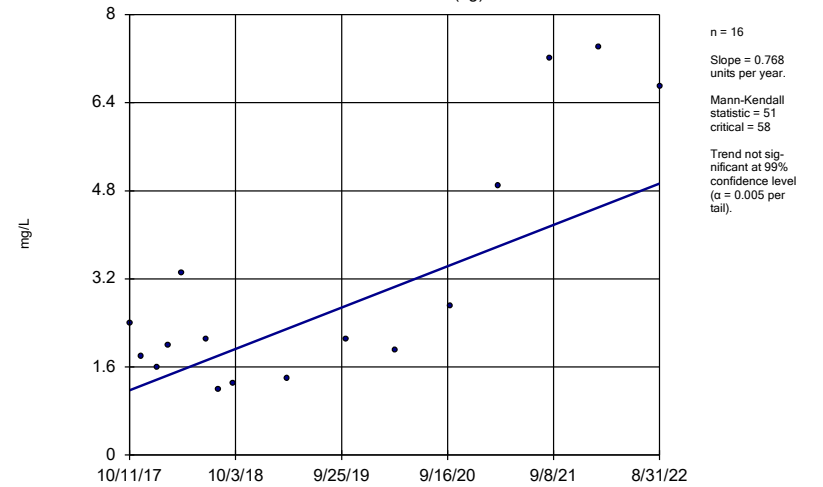
YGWA-21I (bg)



Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

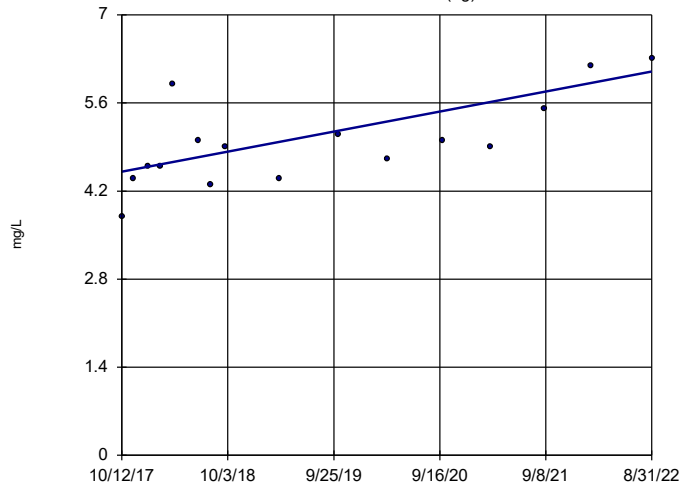
YGWA-39 (bg)



Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-40 (bg)

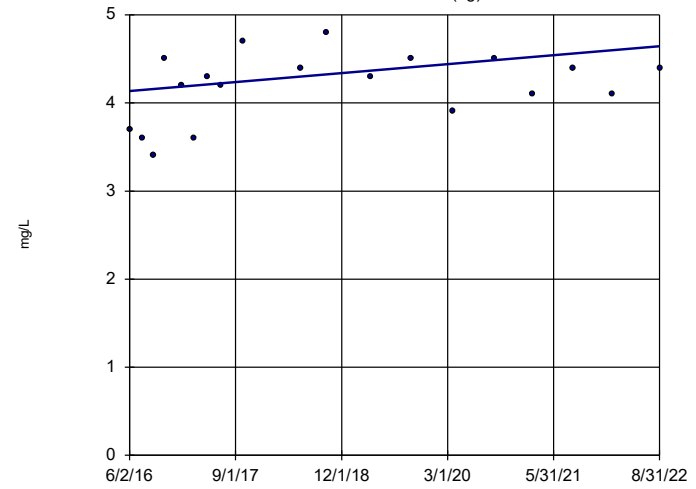


n = 16
 Slope = 0.326 units per year.
 Mann-Kendall statistic = 66
 critical = 58
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-4I (bg)

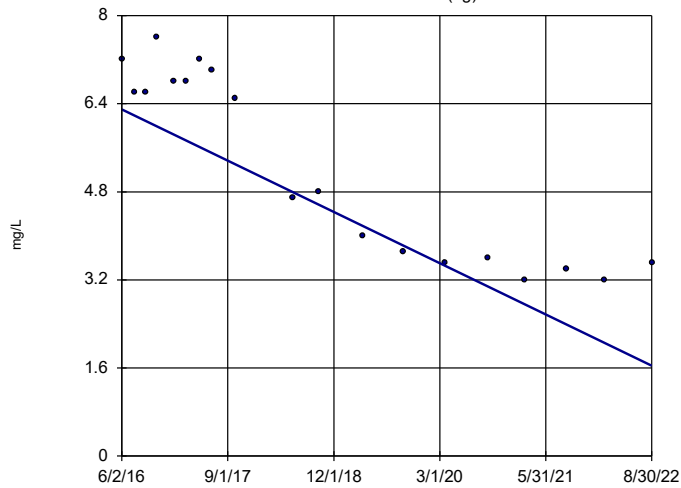


n = 19
 Slope = 0.08123 units per year.
 Mann-Kendall statistic = 41
 critical = 74
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5D (bg)

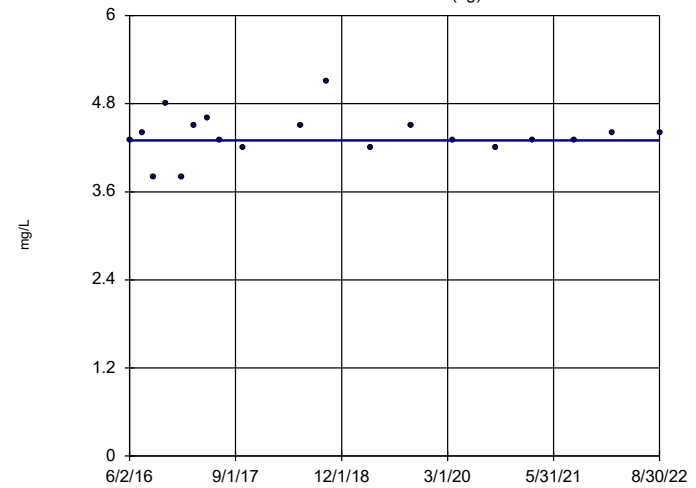


n = 19
 Slope = -0.7454 units per year.
 Mann-Kendall statistic = -124
 critical = -74
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

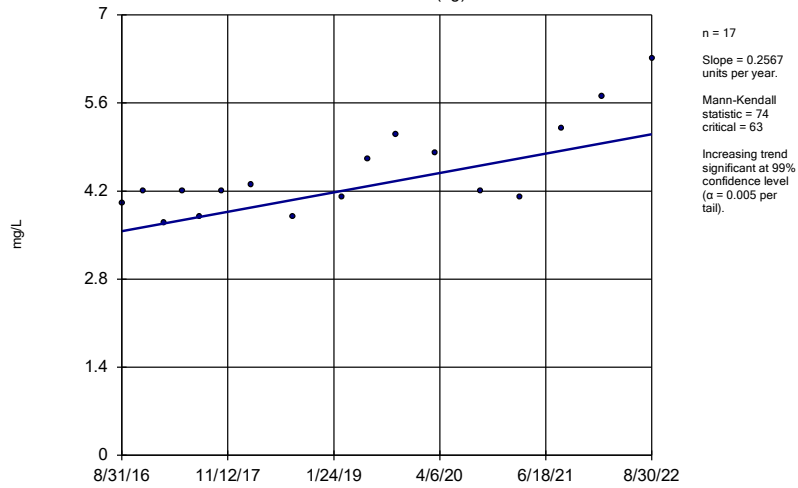
YGWA-5I (bg)



n = 19
 Slope = 0 units per year.
 Mann-Kendall statistic = 5
 critical = 74
 Trend not significant at 99% confidence level (α = 0.005 per tail).

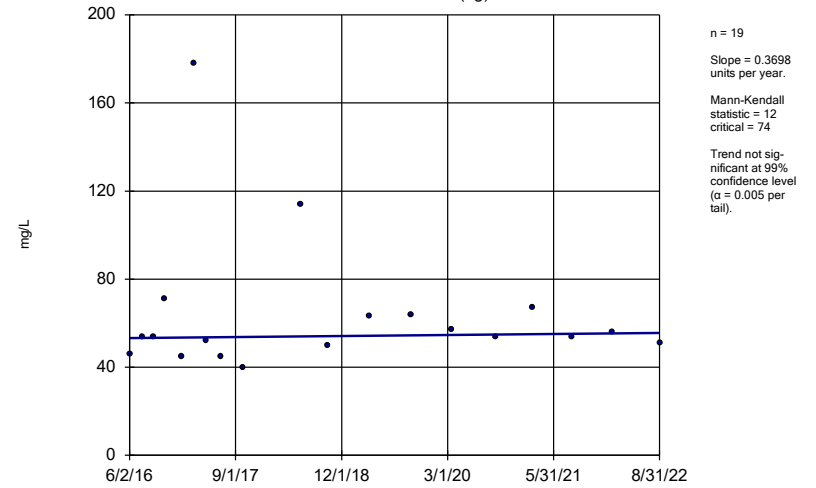
Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
GWA-2 (bg)



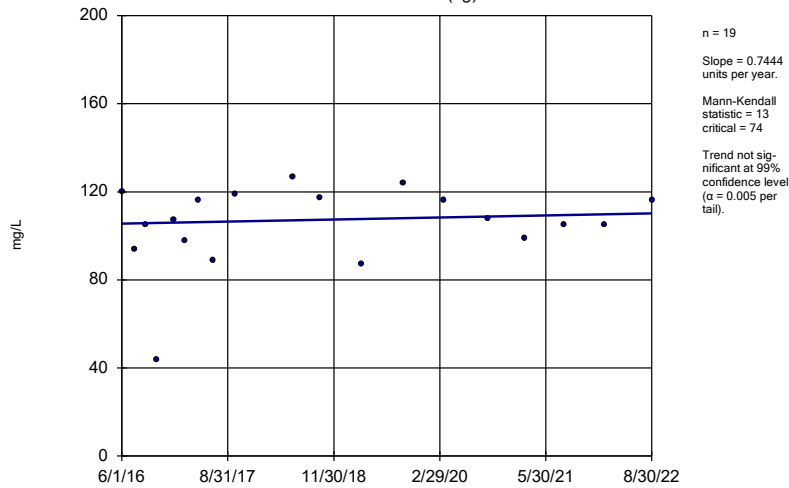
Constituent: Chloride Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-14S (bg)



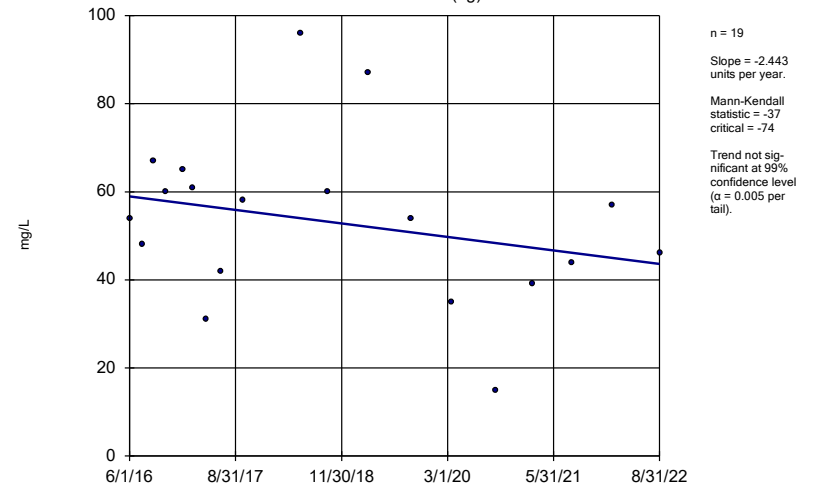
Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-1D (bg)



Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

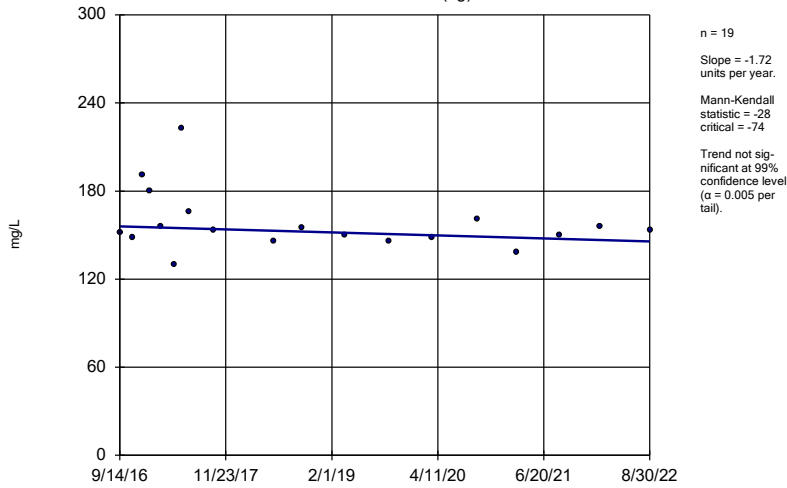
Sen's Slope Estimator
YGWA-1I (bg)



Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

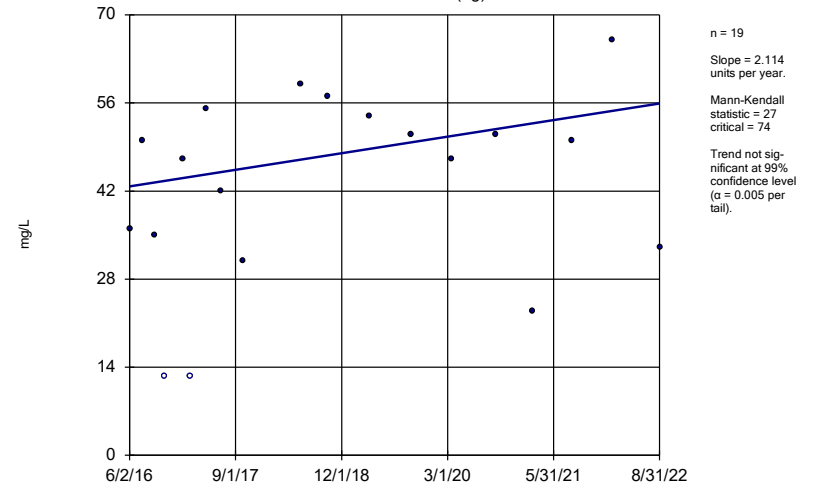
YGWA-2I (bg)



Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

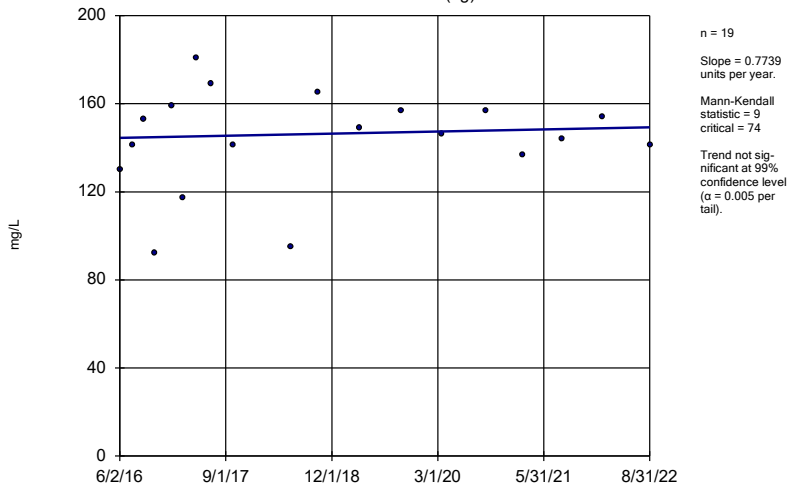
YGWA-30I (bg)



Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

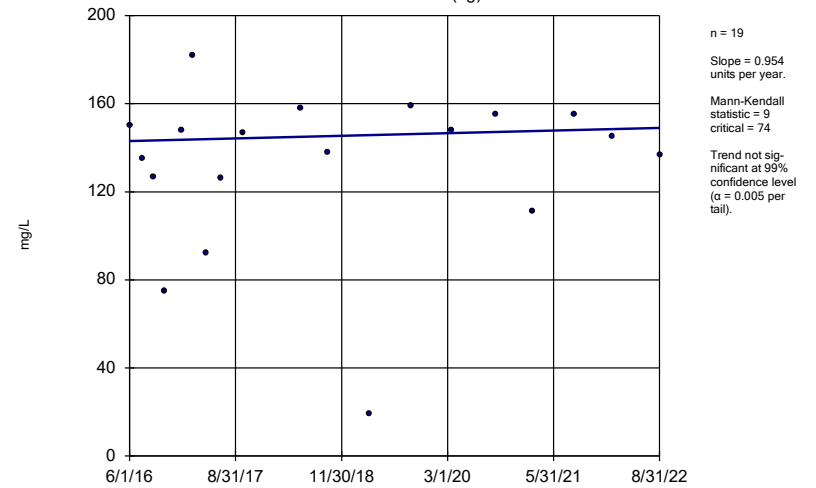
YGWA-3D (bg)



Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

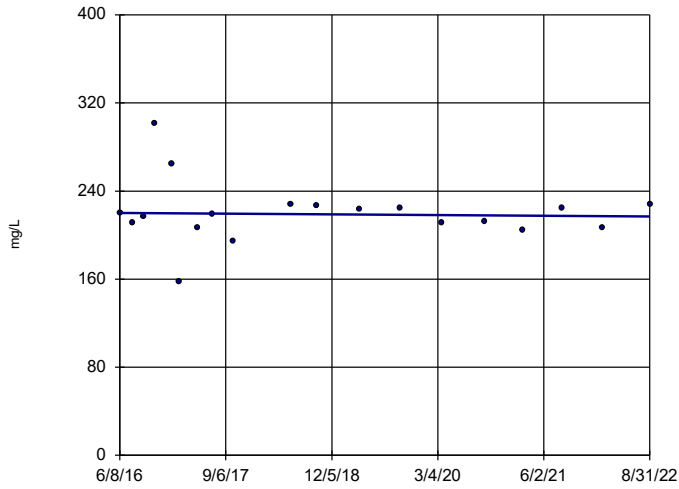
Sen's Slope Estimator

YGWA-3I (bg)



Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:25 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

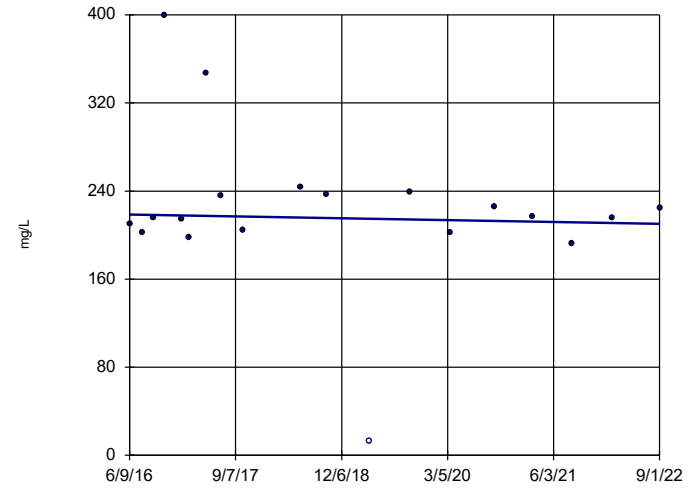
Sen's Slope Estimator YGWC-26I



n = 19
 Slope = -0.5252
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

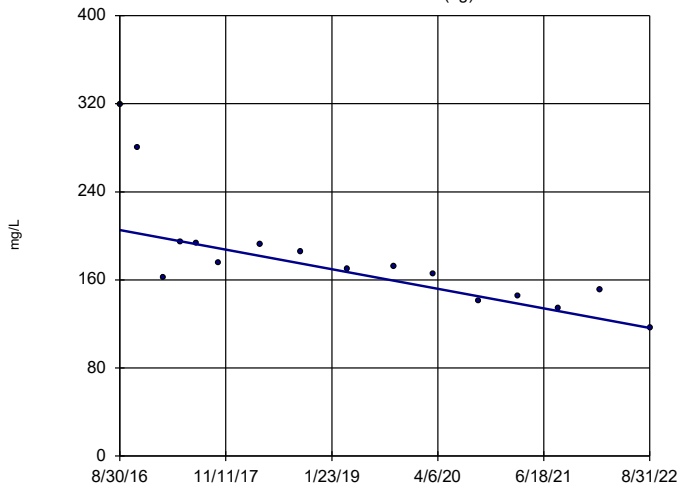
Sen's Slope Estimator YGWC-28S



n = 19
 Slope = -1.335
 units per year.
 Mann-Kendall
 statistic = -9
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

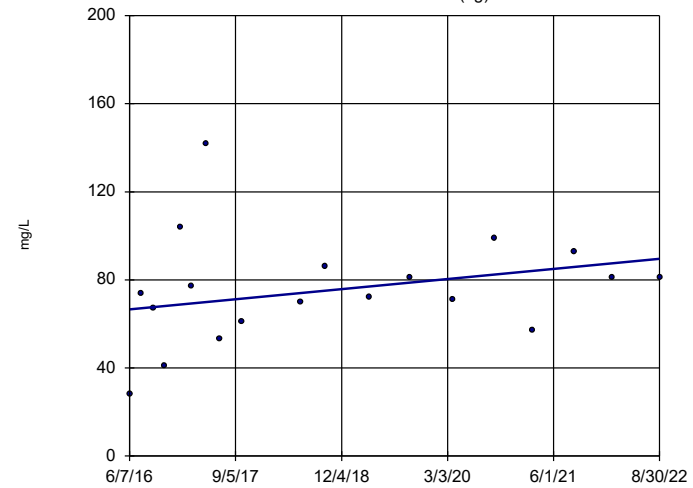
Sen's Slope Estimator YGWA-47 (bg)



n = 16
 Slope = -14.82
 units per year.
 Mann-Kendall
 statistic = -90
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-17S (bg)

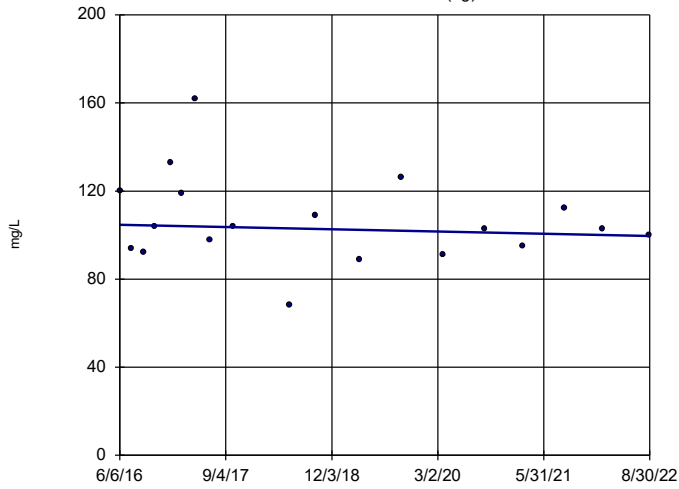


n = 19
 Slope = 3.694
 units per year.
 Mann-Kendall
 statistic = 44
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-18I (bg)

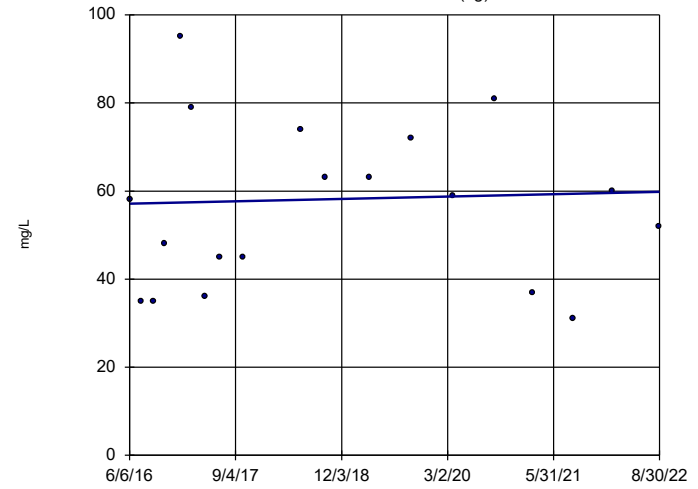


n = 19
 Slope = -0.8196
 units per year.
 Mann-Kendall
 statistic = -19
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-18S (bg)

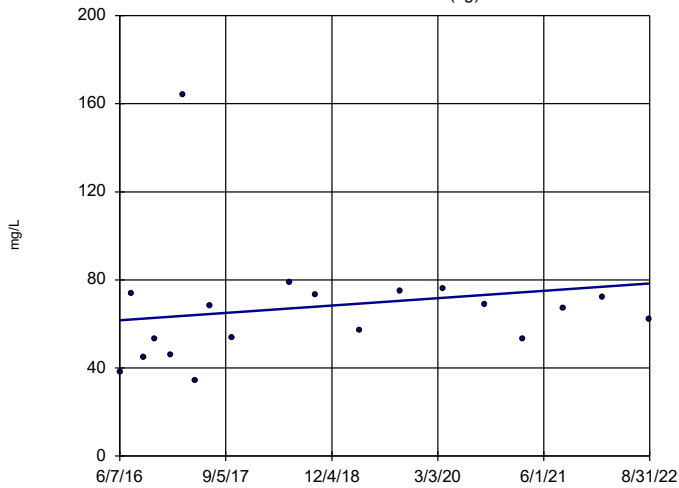


n = 19
 Slope = 0.4345
 units per year.
 Mann-Kendall
 statistic = 10
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-20S (bg)

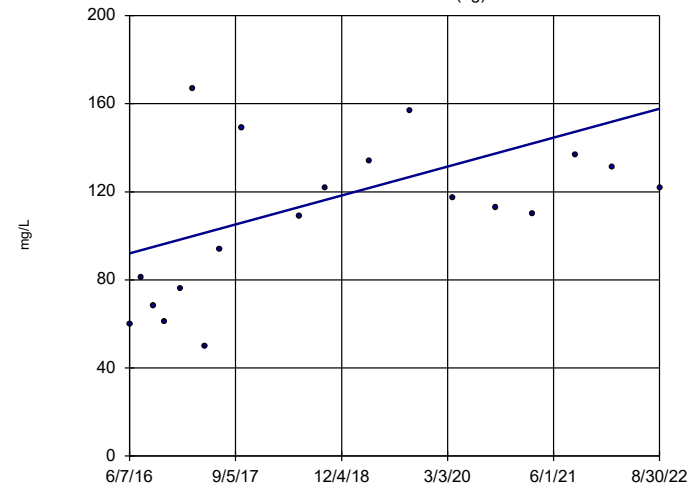


n = 19
 Slope = 2.688
 units per year.
 Mann-Kendall
 statistic = 34
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-21I (bg)

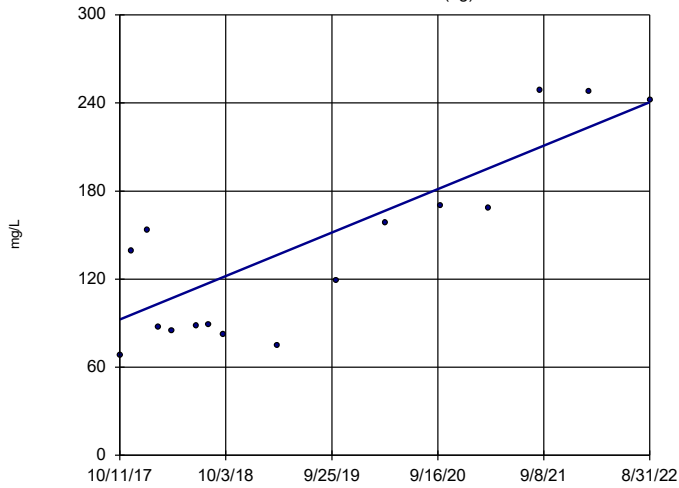


n = 19
 Slope = 10.54
 units per year.
 Mann-Kendall
 statistic = 68
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-39 (bg)

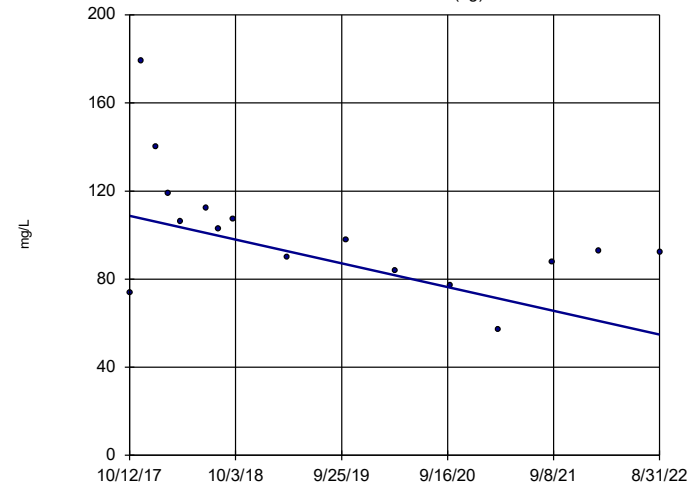


n = 16
 Slope = 30.24
 units per year.
 Mann-Kendall
 statistic = 64
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-40 (bg)

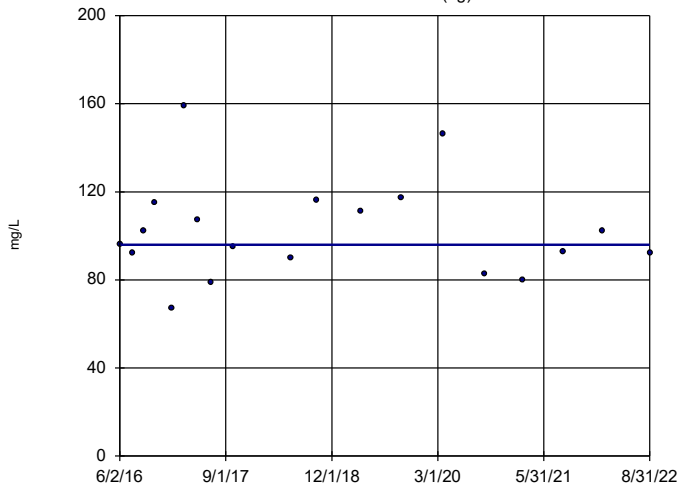


n = 16
 Slope = -11.03
 units per year.
 Mann-Kendall
 statistic = -58
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-41 (bg)

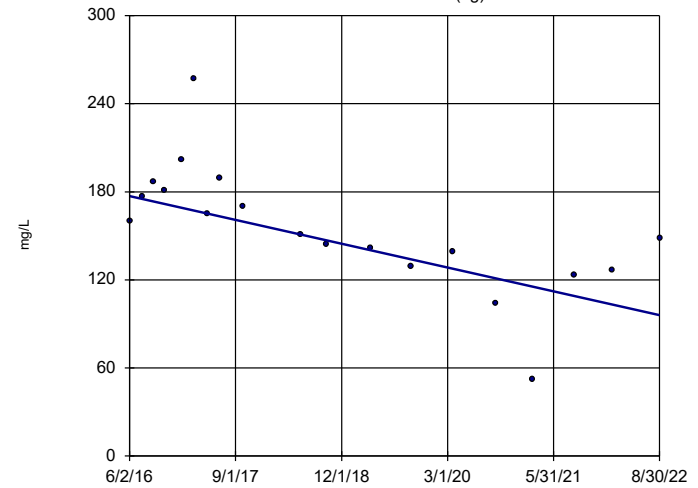


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5D (bg)

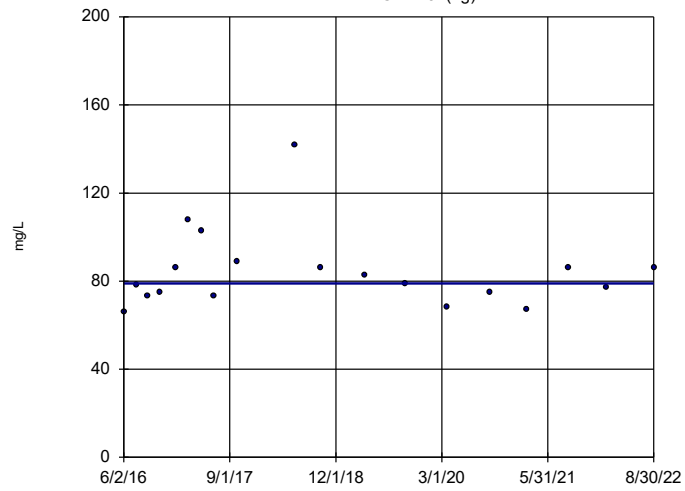


n = 19
 Slope = -12.99
 units per year.
 Mann-Kendall
 statistic = -99
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5l (bg)

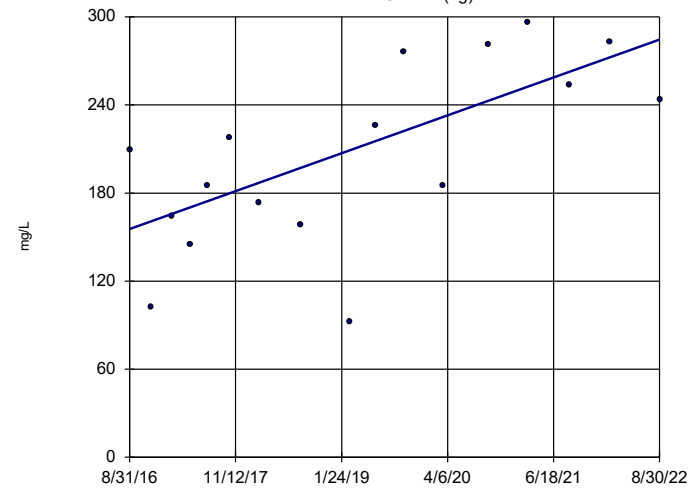


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

GWA-2 (bg)



n = 17
 Slope = 21.5
 units per year.
 Mann-Kendall
 statistic = 67
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/12/2022 1:26 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE F.

Upper Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a	372	n/a	n/a	87.63	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	420	n/a	n/a	74.76	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a	420	n/a	n/a	2.619	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	404	n/a	n/a	80.2	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a	404	n/a	n/a	95.54	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a	372	n/a	n/a	80.11	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a	414	n/a	n/a	69.32	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a	399	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a	419	n/a	n/a	65.63	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a	374	n/a	n/a	85.29	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	399	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a	328	n/a	n/a	93.29	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a	363	n/a	n/a	60.33	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	402	n/a	n/a	92.29	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	338	n/a	n/a	97.04	n/a	n/a	NaN	NP Inter(NDs)

FIGURE G.

YATES ASH POND 2 GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
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		0.071	2
Beryllium, Total (mg/L)	0.004		0.0005	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 H.

Confidence Intervals - All Results (No Significant)

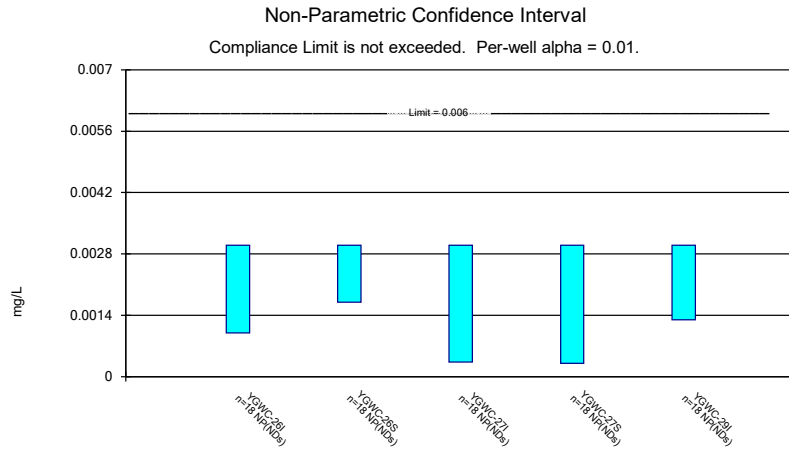
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Lower Compl.	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.001	0.006	n/a	No	18	0.002617	0.0008852	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	n/a	No	18	0.00285	0.0004369	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	n/a	No	18	0.002852	0.0006293	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	n/a	No	18	0.00285	0.0006364	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	n/a	No	18	0.002906	0.0004007	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	n/a	No	22	0.0049	0.000469	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	n/a	No	22	0.004918	0.0003838	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.00069	0.01	n/a	No	22	0.003384	0.002106	59.09	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	n/a	No	22	0.004859	0.0006609	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	n/a	No	22	0.004868	0.0006183	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.0007	0.01	n/a	No	22	0.003396	0.002103	59.09	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29I	0.005	0.0033	0.01	n/a	No	22	0.004923	0.0003624	95.45	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06586	0.06224	2	n/a	No	22	0.06405	0.003371	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02857	0.02615	2	n/a	No	22	0.02736	0.002251	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.07429	0.0662	2	n/a	No	22	0.07043	0.007667	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	YGWC-27S	0.1028	0.08614	2	n/a	No	22	0.09447	0.01551	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08914	0.08214	2	n/a	No	22	0.08564	0.006525	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2208	0.196	2	n/a	No	22	0.2041	0.03667	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0725	0.057	2	n/a	No	22	0.0718	0.03199	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002048	0.0001127	0.004	n/a	No	20	0.0001767	0.0001192	10	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-27I	0.0002555	0.0001418	0.004	n/a	No	20	0.0002183	0.0001298	15	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	n/a	No	20	0.0004588	0.000127	90	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0002875	0.0001345	0.005	n/a	No	20	0.000244	0.0001665	10	None	ln(x)	0.01	Param.
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	n/a	No	20	0.000499	0.00004472	95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0003061	0.0001768	0.005	n/a	No	20	0.00025	0.0001228	15	None	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00067	0.1	n/a	No	20	0.003472	0.002128	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002218	0.001077	0.1	n/a	No	20	0.002699	0.001764	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	n/a	No	20	0.00535	0.001565	95	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.005	0.0041	0.1	n/a	No	20	0.004672	0.002932	70	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	n/a	No	20	0.00432	0.00166	85	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	n/a	No	20	0.004329	0.001638	85	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	n/a	No	20	0.004775	0.001006	95	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002713	0.001916	0.035	n/a	No	22	0.002355	0.0008064	4.545	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01438	0.003531	0.035	n/a	No	22	0.0169	0.02524	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0025	0.0022	0.035	n/a	No	22	0.002405	0.0006579	4.545	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	n/a	No	22	0.004792	0.0009765	95.45	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00091	0.035	n/a	No	22	0.001348	0.001191	9.091	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.00094	0.035	n/a	No	22	0.004003	0.001885	77.27	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.031	0.4627	6.92	n/a	No	21	0.747	0.5154	4.762	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8376	0.5376	6.92	n/a	No	22	0.6876	0.2794	4.545	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.837	2.557	6.92	n/a	No	22	3.197	1.193	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.016	0.6208	6.92	n/a	No	22	0.8185	0.3682	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.8358	0.4705	6.92	n/a	No	22	0.6531	0.3403	4.545	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9184	0.5085	6.92	n/a	No	22	0.7134	0.3818	4.545	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.069	0.6371	6.92	n/a	No	22	0.8529	0.4021	4.545	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	n/a	No	23	0.084	0.02018	43.48	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.076	4	n/a	No	23	0.1278	0.09345	69.57	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.1	0.07	4	n/a	No	23	0.09096	0.02523	52.17	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.1863	0.09639	4	n/a	No	23	0.1559	0.09941	17.39	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.12	0.078	4	n/a	No	23	0.1226	0.0776	21.74	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2523	0.152	4	n/a	No	23	0.2021	0.09584	8.696	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.08971	0.06021	4	n/a	No	23	0.08596	0.0301	30.43	Kaplan-Meier	x^(1/3)	0.01	Param.

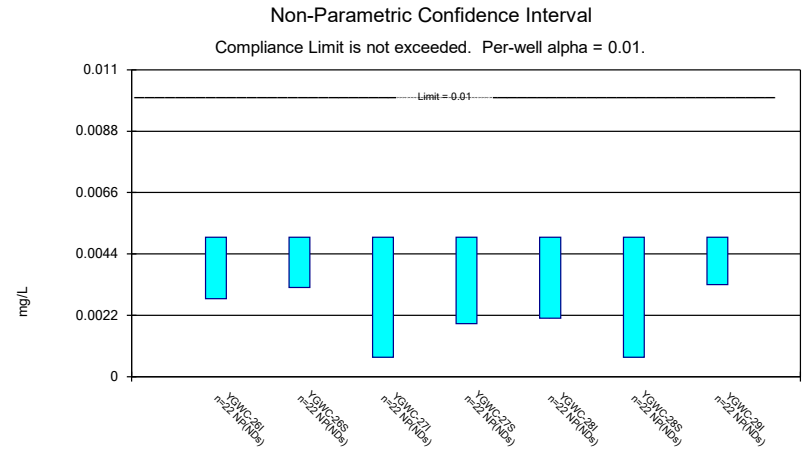
Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/12/2022, 1:45 PM

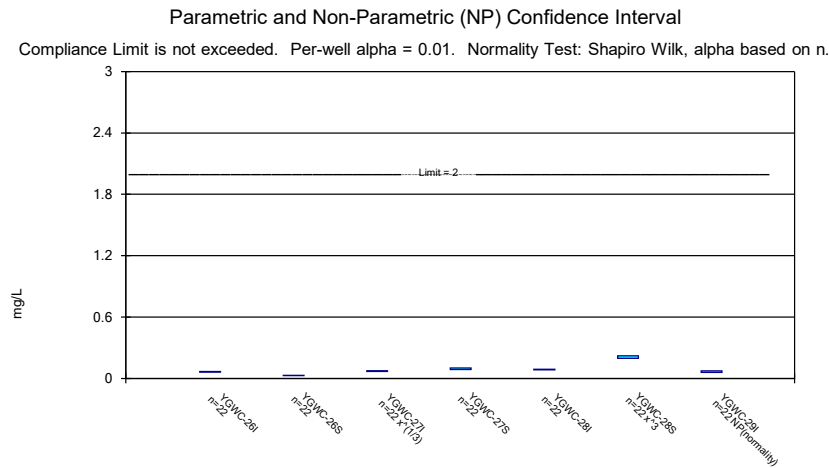
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Lower Compl.	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	n/a	No	18	0.000895	0.0003056	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.00008	0.015	n/a	No	18	0.0007417	0.0004287	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.00037	0.015	n/a	No	18	0.0007998	0.0003525	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.00007	0.015	n/a	No	18	0.0007397	0.000432	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.015	n/a	No	18	0.0008512	0.0003428	83.33	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007313	0.006641	0.04	n/a	No	22	0.006977	0.0006264	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.009973	0.007809	0.04	n/a	No	22	0.008891	0.002016	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	n/a	No	22	0.02737	0.008517	90.91	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007079	0.006675	0.04	n/a	No	22	0.006877	0.0003766	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	n/a	No	22	0.02888	0.005266	95.45	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0066	0.0053	0.04	n/a	No	22	0.007018	0.005198	4.545	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	n/a	No	16	0.0001814	0.00005089	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	n/a	No	16	0.0001822	0.00004877	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	n/a	No	16	0.0001812	0.00005143	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.00019	0.002	n/a	No	16	0.00018	0.00005278	81.25	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	n/a	No	16	0.0001905	0.000038	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	n/a	No	16	0.0001907	0.000037	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29I	0.0002	0.000047	0.002	n/a	No	16	0.0001804	0.00005365	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0015	0.1	n/a	No	22	0.005477	0.004267	45.45	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	n/a	No	22	0.004814	0.004418	40.91	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	n/a	No	22	0.007895	0.003972	77.27	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	n/a	No	22	0.009583	0.001955	95.45	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.003014	0.001996	0.05	n/a	No	20	0.002625	0.001076	10	None	ln(x)	0.01	Param.
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	n/a	No	20	0.004215	0.001624	80	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	n/a	No	20	0.00481	0.0008497	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	n/a	No	20	0.0048	0.0008944	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	n/a	No	16	0.000882	0.0003224	87.5	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	n/a	No	16	0.0006644	0.0004475	62.5	None	No	0.01	NP (NDs)



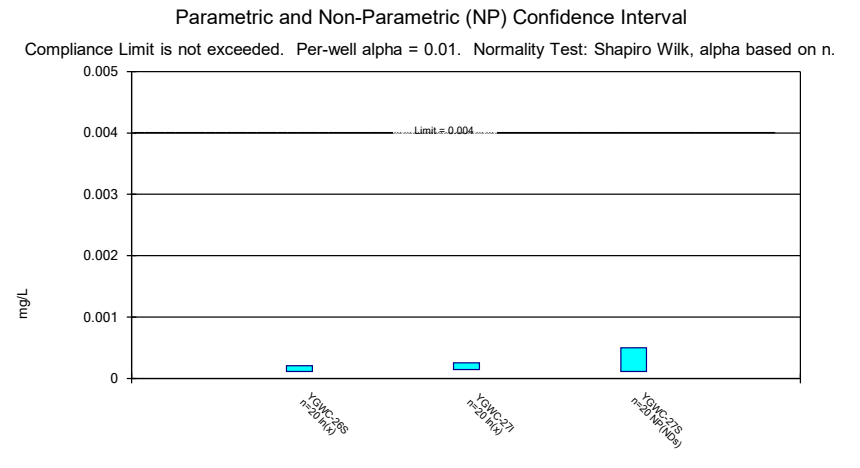
Constituent: Antimony Analysis Run 10/12/2022 1:44 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Arsenic Analysis Run 10/12/2022 1:44 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



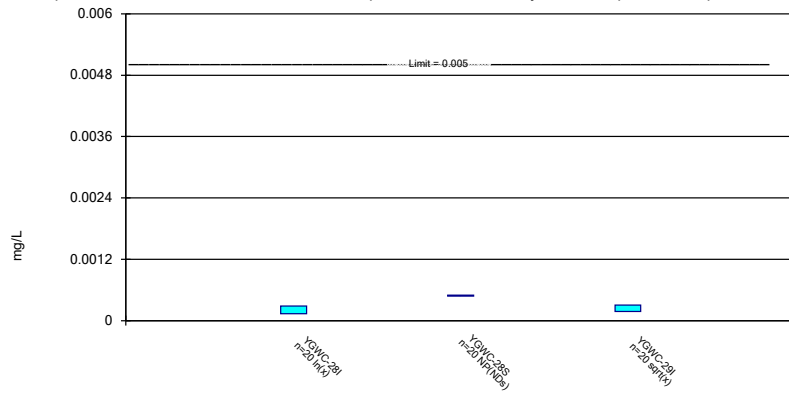
Constituent: Barium Analysis Run 10/12/2022 1:44 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Beryllium Analysis Run 10/12/2022 1:44 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

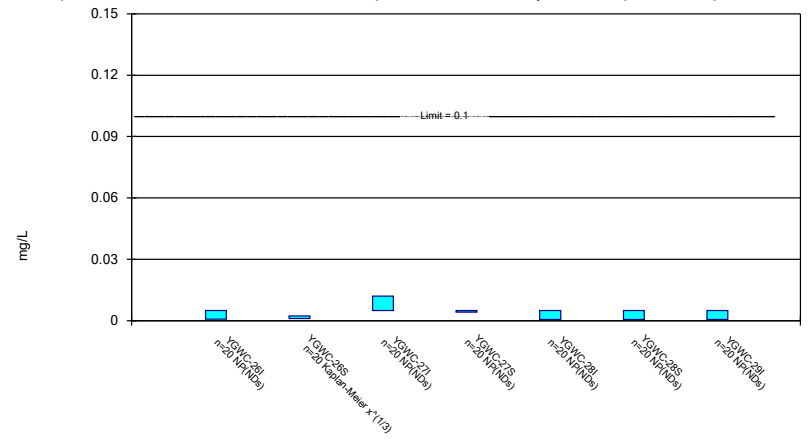
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 10/12/2022 1:44 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

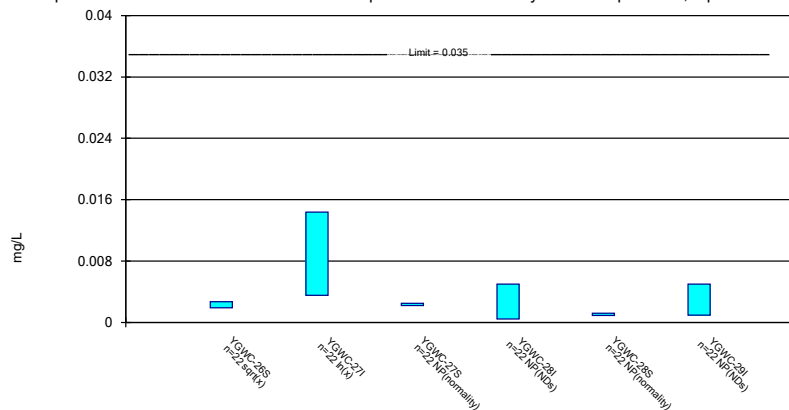
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Constituent: Chromium Analysis Run 10/12/2022 1:44 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

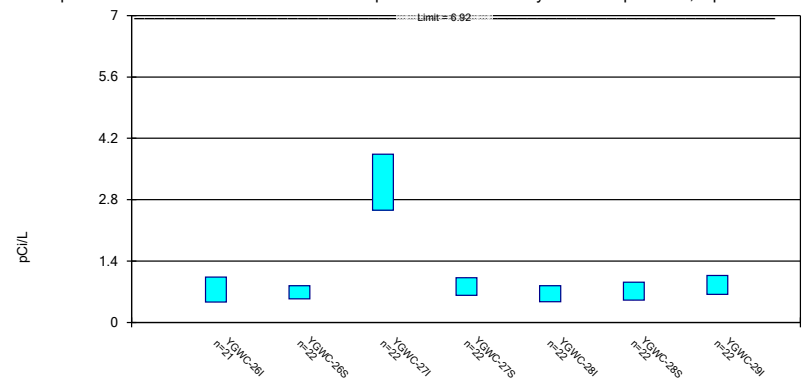
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Constituent: Cobalt Analysis Run 10/12/2022 1:44 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric Confidence Interval

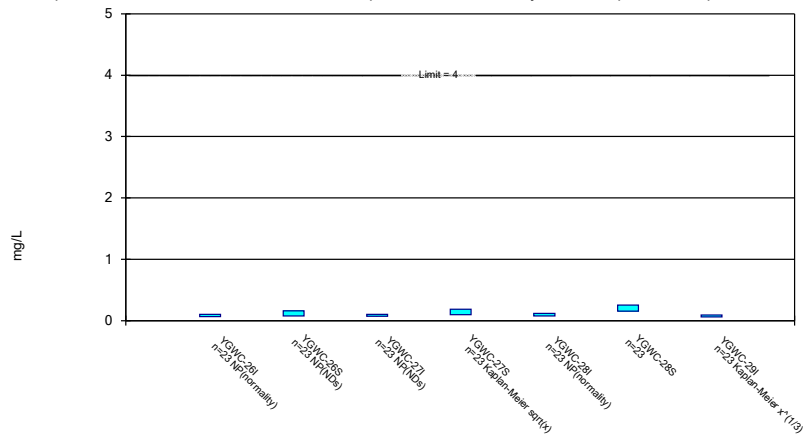
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Constituent: Combined Radium 226 + 228 Analysis Run 10/12/2022 1:44 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

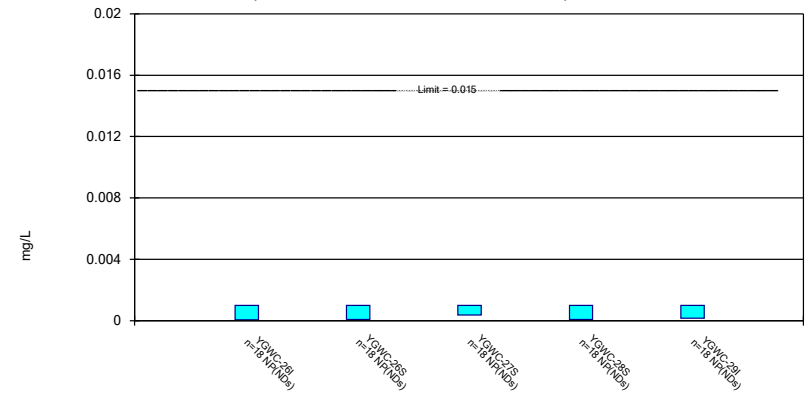
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/12/2022 1:45 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

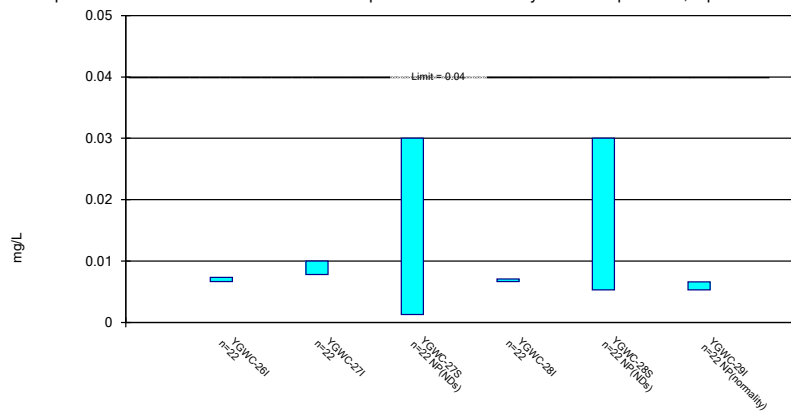
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 10/12/2022 1:45 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

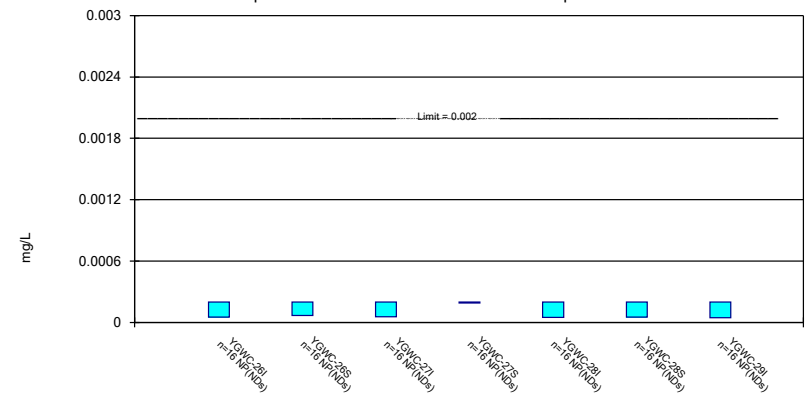
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/12/2022 1:45 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

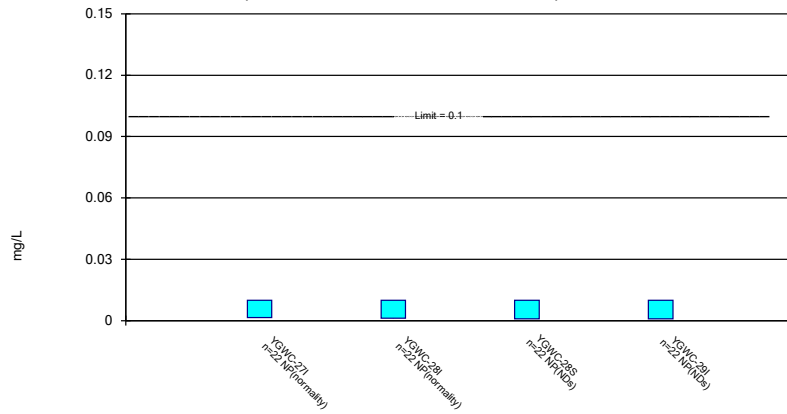
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 10/12/2022 1:45 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

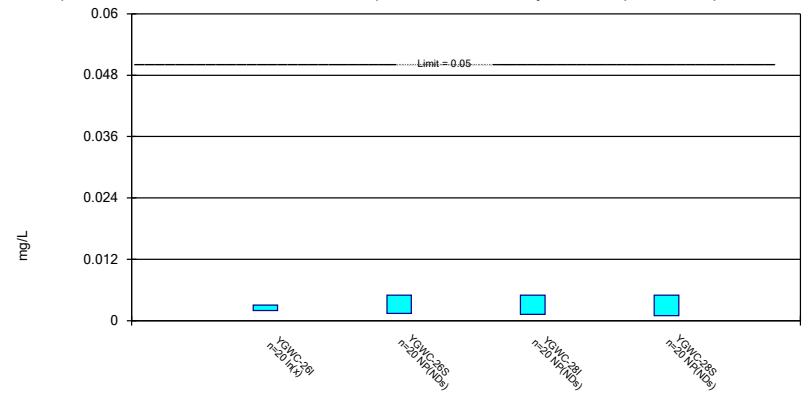
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 10/12/2022 1:45 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

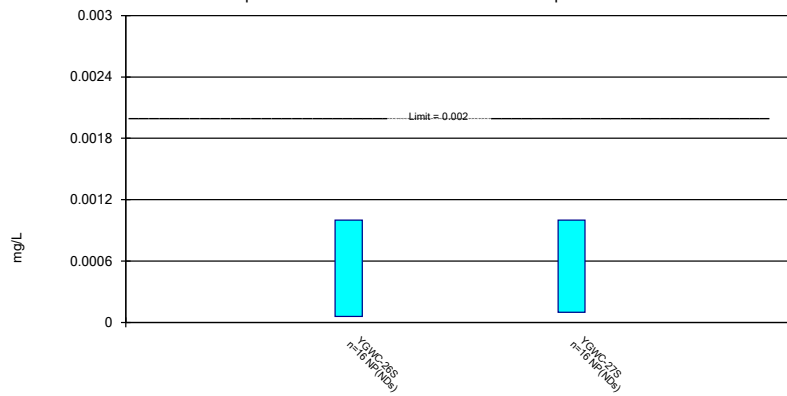
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/12/2022 1:45 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

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



Constituent: Thallium Analysis Run 10/12/2022 1:45 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-29I
6/8/2016	<0.003	<0.003	<0.003	<0.003	
6/9/2016					<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003	
8/2/2016					<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003	
9/21/2016					<0.003
11/7/2016	<0.003	<0.003	<0.003	<0.003	<0.003
1/18/2017	<0.003	<0.003	<0.003		
1/19/2017				<0.003	<0.003
2/21/2017	<0.003	<0.003			
2/22/2017				<0.003	<0.003
2/23/2017			<0.003		
5/3/2017		<0.003			
5/8/2017	<0.003		<0.003	<0.003	<0.003
6/30/2017			<0.003	<0.003	
7/5/2017					<0.003
7/10/2017	<0.003	<0.003			
3/29/2018			<0.003	<0.003	<0.003
3/30/2018	<0.003	<0.003			
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003
3/19/2020		0.0017 (J)			
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)	<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003	<0.003	<0.003	
2/12/2021					<0.003
3/2/2021		<0.003			
3/3/2021	<0.003		<0.003	<0.003	<0.003
8/19/2021		<0.003			
8/20/2021	<0.003		<0.003	<0.003	<0.003
2/8/2022				<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003		
8/31/2022	0.001 (J)	<0.003			
9/1/2022			<0.003	<0.003	<0.003
Mean	0.002617	0.00285	0.002852	0.00285	0.002906
Std. Dev.	0.0008852	0.0004369	0.0006293	0.0006364	0.0004007
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.001	0.0017	0.00033	0.0003	0.0013

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	<0.005
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		<0.005
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
3/29/2018			0.0006 (J)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
6/11/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
10/2/2018	<0.005	<0.005	<0.005	<0.005			<0.005
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	<0.005				<0.005	
9/25/2019	<0.005	<0.005					<0.005
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				
8/31/2022	<0.005	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005
Mean	0.0049	0.004918	0.003384	0.004859	0.004868	0.003396	0.004923
Std. Dev.	0.000469	0.0003838	0.002106	0.0006609	0.0006183	0.002103	0.0003624
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0028	0.0032	0.00069	0.0019	0.0021	0.0007	0.0033

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	0.082
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	0.0781
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	0.0782
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	0.0712
11/8/2016					0.0886		
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			0.0689
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		0.0741
2/23/2017			0.0728				
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0725
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		0.0677
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
3/29/2018			0.062	0.097			0.055
3/30/2018	0.063	0.026			0.087	0.2	
6/11/2018							0.068
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
10/2/2018	0.066	0.026	0.062	0.1			0.067
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	0.067
4/1/2019			0.066	0.099	0.088		0.063
4/2/2019	0.065	0.027				0.2	
9/25/2019	0.063	0.026					0.061
9/26/2019			0.065	0.099	0.087	0.18	
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	0.053
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			0.057
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	0.21
3/2/2021		0.031					
3/3/2021	0.064		0.08	0.075	0.077	0.25	0.059
8/19/2021		0.023					
8/20/2021	0.063		0.083	0.082	0.079	0.24	0.057
2/8/2022				0.068	0.083	0.2	0.057
2/10/2022	0.063	0.027	0.079				
8/31/2022	0.057	0.024					
9/1/2022			0.076	0.049	0.068	0.2	0.057
Mean	0.06405	0.02736	0.07043	0.09447	0.08564	0.2041	0.0718
Std. Dev.	0.003371	0.002251	0.007667	0.01551	0.006525	0.03667	0.03199
Upper Lim.	0.06586	0.02857	0.07429	0.1028	0.08914	0.2208	0.0725
Lower Lim.	0.06224	0.02615	0.0662	0.08614	0.08214	0.196	0.057

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S
6/8/2016	<0.0005	<0.0005	<0.0005
8/1/2016	0.0002 (J)	<0.0005	<0.0005
9/20/2016	0.0001 (J)	9E-05 (J)	<0.0005
11/7/2016	0.0001 (J)	0.0001 (J)	<0.0005
1/18/2017	0.0002 (J)	0.0002 (J)	
1/19/2017			<0.0005
2/21/2017	0.0002 (J)		
2/22/2017			<0.0005
2/23/2017		0.0002 (J)	
5/3/2017	0.0002 (J)		
5/8/2017		0.0002 (J)	<0.0005
6/30/2017		0.0002 (J)	<0.0005
7/10/2017	0.0002 (J)		
3/29/2018		<0.0005	<0.0005
3/30/2018	<0.0005		
2/27/2019	0.00018 (J)	0.00022 (J)	<0.0005
4/1/2019		0.00022 (J)	<0.0005
4/2/2019	0.00015 (J)		
9/25/2019	0.00011 (J)		
9/26/2019		0.0002 (J)	<0.0005
2/13/2020	0.00015 (J)	0.00021 (J)	<0.0005
3/19/2020	0.00012 (J)		
3/20/2020		0.00023 (J)	<0.0005
9/24/2020	8.5E-05 (J)	0.00019 (J)	<0.0005
2/10/2021	0.00013 (J)	0.00014 (J)	6.6E-05 (J)
3/2/2021	0.00016 (J)		
3/3/2021		0.00013 (J)	<0.0005
8/19/2021	8.2E-05 (J)		
8/20/2021		8.6E-05 (J)	0.00011 (J)
2/8/2022			<0.0005
2/10/2022	9.3E-05 (J)	0.00013 (J)	
8/31/2022	7.4E-05 (J)		
9/1/2022		0.00012 (J)	<0.0005
Mean	0.0001767	0.0002183	0.0004588
Std. Dev.	0.0001192	0.0001298	0.000127
Upper Lim.	0.0002048	0.0002555	0.0005
Lower Lim.	0.0001127	0.0001418	0.00011

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29I
6/9/2016	0.00055 (J)	<0.0005	<0.0005
8/2/2016	0.0001 (J)	<0.0005	0.0001 (J)
9/21/2016	0.0001 (J)	<0.0005	0.0002 (J)
11/7/2016		<0.0005	0.0002 (J)
11/8/2016	9E-05 (J)		
1/18/2017	9E-05 (J)	<0.0005	
1/19/2017			0.0001 (J)
2/21/2017		<0.0005	
2/22/2017	0.0001 (J)		0.0001 (J)
5/5/2017	9E-05 (J)	<0.0005	
5/8/2017			0.0002 (J)
7/5/2017	0.0002 (J)		0.0002 (J)
7/7/2017		<0.0005	
3/29/2018			<0.0005
3/30/2018	<0.0005	<0.0005	
2/27/2019	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019	0.00043 (J)		0.00022 (J)
4/2/2019		<0.0005	
9/25/2019			0.00024 (J)
9/26/2019	<0.0005	<0.0005	
2/13/2020	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020	0.00016 (J)	<0.0005	
3/20/2020			0.00022 (J)
9/24/2020	0.00027 (J)	<0.0005	0.00033 (J)
2/11/2021	0.00052 (J)		
2/12/2021		0.00048 (J)	<0.0005
3/3/2021	0.00014 (J)	<0.0005	0.00029 (J)
8/20/2021	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022	0.00033 (J)	<0.0005	0.00019 (J)
9/1/2022	0.00017 (J)	<0.0005	0.0002 (J)
Mean	0.000244	0.000499	0.00025
Std. Dev.	0.0001665	4.472E-06	0.0001228
Upper Lim.	0.0002875	0.0005	0.0003061
Lower Lim.	0.0001345	0.00048	0.0001768

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	0.003 (J)				<0.005	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.005
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/19/2021		0.0012 (J)					
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
8/31/2022	<0.005	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005
Mean	0.003472	0.002699	0.00535	0.004672	0.00432	0.004329	0.004775
Std. Dev.	0.002128	0.001764	0.001565	0.002932	0.00166	0.001638	0.001006
Upper Lim.	0.005	0.002218	0.012	0.005	0.005	0.005	0.005
Lower Lim.	0.00067	0.001077	0.005	0.0041	0.0005	0.0006	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016				0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016				<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016				<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016				<0.005		
1/18/2017	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017			0.0024 (J)			<0.005
2/21/2017	0.0022 (J)				0.0011 (J)	
2/22/2017			0.0023 (J)	<0.005		<0.005
2/23/2017		0.002 (J)				
5/3/2017	0.002 (J)					
5/5/2017				<0.005	0.0012 (J)	
5/8/2017		0.0029 (J)	0.0023 (J)			<0.005
6/30/2017		0.0044 (J)	0.0022 (J)			
7/5/2017				<0.005		0.0003 (J)
7/7/2017					0.0012 (J)	
7/10/2017	0.002 (J)					
3/29/2018		0.0495 (D)	<0.005			<0.005
3/30/2018	<0.005			<0.005	<0.005	
6/11/2018						<0.005
6/12/2018			0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	0.0017 (J)	0.092				
10/2/2018	0.002 (J)	0.078	0.0023 (J)			<0.005
10/3/2018				<0.005	0.0013 (J)	
2/27/2019	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005
4/1/2019		0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	0.0022 (J)				0.0011 (J)	
9/25/2019	0.0033 (J)					<0.005
9/26/2019		0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005
3/19/2020	0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020		0.014	0.0022 (J)			<0.005
9/24/2020	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005
2/10/2021	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021				<0.005		
2/12/2021					<0.005	0.00094 (J)
3/2/2021	0.0021 (J)					
3/3/2021		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005
8/19/2021	0.0017 (J)					
8/20/2021		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005
2/8/2022			0.0017 (J)	<0.005	0.00091 (J)	<0.005
2/10/2022	0.0026 (J)	0.0051				
8/31/2022	0.0026 (J)					
9/1/2022		0.0096	0.0015 (J)	<0.005	0.00071 (J)	<0.005
Mean	0.002355	0.0169	0.002405	0.004792	0.001348	0.004003
Std. Dev.	0.0008064	0.02524	0.0006579	0.0009765	0.001191	0.001885
Upper Lim.	0.002713	0.01438	0.0025	0.005	0.0012	0.005
Lower Lim.	0.001916	0.003531	0.0022	0.00042	0.00091	0.00094

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	0.523
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016					0.331 (U)	0.526 (U)	1.25
9/20/2016	0.565 (U)	0.555 (U)	3.12	1.27			
9/21/2016					0.335 (U)	0.176 (U)	1.21 (U)
11/7/2016	0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	1.16
11/8/2016					0.245 (U)		
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			0.933 (U)
2/21/2017	1.06 (U)	1.11 (U)				0.404 (U)	
2/22/2017				1.26 (U)	0.516 (U)		1.45 (U)
2/23/2017			4.73				
5/3/2017		0.654 (U)					
5/5/2017					0.713 (U)	0.868 (U)	
5/8/2017	0.291 (U)		3.87	0.789 (U)			0.21 (U)
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		0.62 (U)
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
3/29/2018			1.41	0.916 (U)			1.37
3/30/2018	0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
6/11/2018							1.27 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			0.442 (U)
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	0.902 (U)
4/1/2019			5	0.777 (U)	0.162 (U)		0.584 (U)
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
9/25/2019	1.01 (U)	1.18 (U)					1.03 (U)
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	0.806 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			1.42
9/24/2020	<1.88	<1.88	3.42	1.49	<1.88	<1.88	<1.88
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	0.826
3/2/2021		0.394 (U)					
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	0.955
8/19/2021		0.531 (U)					
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	0.314 (U)
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.104 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				
8/31/2022	0.179 (U)	0.602 (U)					
9/1/2022			2.93	0.147 (U)	0.602 (U)	0.127 (U)	0.445 (U)
Mean	0.747	0.6876	3.197	0.8185	0.6531	0.7134	0.8529
Std. Dev.	0.5154	0.2794	1.193	0.3682	0.3403	0.3818	0.4021
Upper Lim.	1.031	0.8376	3.837	1.016	0.8358	0.9184	1.069
Lower Lim.	0.4627	0.5376	2.557	0.6208	0.4705	0.5085	0.6371

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	0.085 (J)
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.1	0.32			
9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	<0.1 (*)	0.44	<0.1 (*)	<0.1 (*)		0.27 (J)	<0.1 (*)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	<0.1 (*)	<0.1 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			<0.1 (*)
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.1 (*)		<0.1 (*)
2/23/2017			<0.1 (*)				
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.06 (J)
6/30/2017			<0.1 (*)	0.2 (J)			
7/5/2017					0.11 (J)		0.08 (J)
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
10/5/2017					<0.1 (*)		<0.1 (*)
10/6/2017				<0.1 (*)			
10/9/2017			<0.1 (*)			<0.1 (*)	
10/10/2017	<0.1	<0.1					
3/29/2018			<0.1	0.49			<0.1
3/30/2018	<0.1	0.35			<0.1	<0.1	
6/11/2018							<0.1
6/12/2018				0.037 (J)	<0.1	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.1				
10/2/2018	<0.1	<0.1	<0.1	<0.1			<0.1
10/3/2018					<0.1	0.31	
2/27/2019	<0.1	<0.1	<0.1	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		0.059 (J)
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
9/25/2019	0.064 (J)	<0.1					0.054 (J)
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.1	<0.1	<0.1	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.1	0.097 (J)			0.057 (J)
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	0.17
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
8/19/2021		<0.1					
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	0.069 (J)
2/8/2022				0.087 (J)	0.063 (J)	0.14	0.053 (J)
2/10/2022	<0.1	<0.1	0.059 (J)				
8/31/2022	0.082 (J)	0.076 (J)					
9/1/2022			0.1	0.12	0.11	0.16	0.091 (J)
Mean	0.084	0.1278	0.09096	0.1559	0.1226	0.2021	0.08596

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
Std. Dev.	0.02018	0.09345	0.02523	0.09941	0.0776	0.09584	0.0301
Upper Lim.	0.1	0.16	0.1	0.1863	0.12	0.2523	0.08971
Lower Lim.	0.064	0.076	0.07	0.09639	0.078	0.152	0.06021

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001 (*)		
6/9/2016				<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001		
8/2/2016				<0.001	<0.001
9/20/2016	<0.001	<0.001	0.0002 (J)		
9/21/2016				<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001	<0.001
1/18/2017	<0.001	<0.001		<0.001	
1/19/2017			<0.001		<0.001
2/21/2017	<0.001	<0.001		<0.001	
2/22/2017			<0.001		<0.001
5/3/2017		<0.001 (*)			
5/5/2017				<0.001 (*)	
5/8/2017	<0.001		<0.001		<0.001
6/30/2017			<0.001		
7/5/2017					<0.001
7/7/2017				7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)			
3/29/2018			<0.001		<0.001
3/30/2018	<0.001	<0.001		<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	<0.001	6.2E-05 (J)	5.4E-05 (J)	<0.001
3/19/2020		0.0001 (J)		7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		8.5E-05 (J)		<0.001
9/24/2020	<0.001	6.4E-05 (J)	0.00037 (J)	6.3E-05 (J)	9.5E-05 (J)
2/10/2021	5.1E-05 (J)	5E-05 (J)	0.00072 (J)		
2/12/2021				5.2E-05 (J)	6.6E-05 (J)
3/2/2021		5.6E-05 (J)			
3/3/2021	<0.001		<0.001	<0.001	0.00016 (J)
8/19/2021		<0.001			
8/20/2021	<0.001		0.00096 (J)	<0.001	<0.001
2/8/2022			<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001			
8/31/2022	<0.001	<0.001			
9/1/2022			<0.001	<0.001	<0.001
Mean	0.000895	0.0007417	0.0007998	0.0007397	0.0008512
Std. Dev.	0.0003056	0.0004287	0.0003525	0.000432	0.0003428
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.9E-05	8E-05	0.00037	7E-05	0.00016

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.007	0.0067	<0.03			
6/9/2016				0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	0.008 (J)	<0.03			
8/2/2016				0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	0.0111 (J)	<0.03			
9/21/2016				0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016				0.0072 (J)		
1/18/2017	0.0066 (J)	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017			<0.03			0.0055 (J)
2/21/2017	0.0067 (J)				<0.03	
2/22/2017			<0.03	0.0064 (J)		0.0063 (J)
2/23/2017		0.0099 (J)				
5/5/2017				0.007 (J)	<0.03	
5/8/2017	0.007 (J)	0.0086 (J)	<0.03			0.0066 (J)
6/30/2017		0.0108 (J)	<0.03			
7/5/2017				0.0072 (J)		0.0058 (J)
7/7/2017					<0.03	
7/10/2017	0.0064 (J)					
3/29/2018		0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)			0.007 (J)	<0.03	
6/11/2018						0.0064 (J)
6/12/2018			<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	0.014 (J)				
10/2/2018	0.0064 (J)	0.012 (J)	<0.03			0.006 (J)
10/3/2018				0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019		0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)				<0.03	
9/25/2019	0.0073 (J)					0.0057 (J)
9/26/2019		0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020				0.007 (J)	<0.03	
3/20/2020	0.0072 (J)	0.0091 (J)	<0.03			0.0051 (J)
9/24/2020	0.0074 (J)	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	0.0067 (J)	0.00081 (J)			
2/11/2021				0.007 (J)		
2/12/2021					0.0053 (J)	<0.03
3/3/2021	0.0077 (J)	0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/20/2021	0.0079 (J)	0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022			<0.03	0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0086 (J)	0.0072 (J)				
8/31/2022	0.0074 (J)					
9/1/2022		0.0069 (J)	<0.03	0.0066 (J)	<0.03	0.0051 (J)
Mean	0.006977	0.008891	0.02737	0.006877	0.02888	0.007018
Std. Dev.	0.0006264	0.002016	0.008517	0.0003766	0.005266	0.005198
Upper Lim.	0.007313	0.009973	0.03	0.007079	0.03	0.0066
Lower Lim.	0.006641	0.007809	0.0013	0.006675	0.0053	0.0053

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	<0.0002 (*)
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016					<0.0002		
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			<0.0002
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		<0.0002
2/23/2017			<0.0002				
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		<0.0002
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
3/29/2018			<0.0002	<0.0002			<0.0002
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
9/25/2019	<0.0002	<0.0002					<0.0002
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
8/31/2022	<0.0002	<0.0002					
9/1/2022			<0.0002	0.00019 (J)	<0.0002	<0.0002	<0.0002
Mean	0.0001814	0.0001822	0.0001812	0.00018	0.0001905	0.0001907	0.0001804
Std. Dev.	5.089E-05	4.877E-05	5.143E-05	5.278E-05	3.8E-05	3.7E-05	5.365E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5.1E-05	6.6E-05	5.4E-05	0.00019	4.8E-05	5.2E-05	4.7E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0011 (J)			
6/9/2016		0.0011 (J)	<0.01	<0.01
8/1/2016	0.0018 (J)			
8/2/2016		0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01			
9/21/2016		<0.01	<0.01	<0.01
11/7/2016	<0.01		<0.01	<0.01
11/8/2016		<0.01		
1/18/2017	<0.01	<0.01	<0.01	
1/19/2017				<0.01
2/21/2017			<0.01	
2/22/2017		<0.01		<0.01
2/23/2017	<0.01			
5/5/2017		0.0014 (J)	0.0007 (J)	
5/8/2017	0.0011 (J)			<0.01
6/30/2017	<0.01			
7/5/2017		0.0014 (J)		<0.01
7/7/2017			<0.01	
3/29/2018	<0.01			<0.01
3/30/2018		<0.01	<0.01	
6/11/2018				<0.01
6/12/2018		<0.01	<0.01	
6/13/2018	<0.01			
10/2/2018	<0.01			<0.01
10/3/2018		<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01
4/1/2019	<0.01	<0.01		<0.01
4/2/2019			<0.01	
9/25/2019				<0.01
9/26/2019	0.0013 (J)	0.0013 (J)	<0.01	
2/13/2020	0.0014 (J)	0.0013 (J)	<0.01	<0.01
3/19/2020		0.0014 (J)	<0.01	
3/20/2020	0.0014 (J)			<0.01
9/24/2020	0.0015 (J)	0.0012 (J)	0.00075 (J)	<0.01
2/10/2021	0.0016 (J)			
2/11/2021		0.0012 (J)		
2/12/2021			<0.01	0.00083 (J)
3/3/2021	0.0017 (J)	0.0011 (J)	0.00083 (J)	<0.01
8/20/2021	0.0042 (J)	0.001 (J)	<0.01	<0.01
2/8/2022		0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	0.0018 (J)			
9/1/2022	0.0016 (J)	0.001 (J)	<0.01	<0.01
Mean	0.005477	0.004814	0.007895	0.009583
Std. Dev.	0.004267	0.004418	0.003972	0.001955
Upper Lim.	0.01	0.01	0.01	0.01
Lower Lim.	0.0015	0.0012	0.00083	0.00083

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-28I	YGWC-28S
6/8/2016	0.0016	0.0003 (J)		
6/9/2016			<0.005	<0.005
8/1/2016	0.0023 (J)	0.0014 (J)		
8/2/2016			<0.005	<0.005
9/20/2016	0.0022 (J)	<0.005		
9/21/2016			<0.005	0.001 (J)
11/7/2016	0.0017 (J)	<0.005		<0.005
11/8/2016			<0.005	
1/18/2017	0.002 (J)	0.0012 (J)	<0.005	<0.005
2/21/2017	0.0018 (J)	0.0014 (J)		<0.005
2/22/2017			0.0012 (J)	
5/3/2017		<0.005		
5/5/2017			<0.005	<0.005
5/8/2017	<0.005			
7/5/2017			<0.005	
7/7/2017				<0.005
7/10/2017	0.002 (J)	<0.005		
3/30/2018	<0.005	<0.005	<0.005	<0.005
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005
4/1/2019			<0.005	
4/2/2019	0.0017 (J)	<0.005		<0.005
9/25/2019	0.0019 (J)	<0.005		
9/26/2019			<0.005	<0.005
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005
3/19/2020		<0.005	<0.005	<0.005
3/20/2020	0.0019 (J)			
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005
2/10/2021	0.0026 (J)	<0.005		
2/11/2021			<0.005	
2/12/2021				<0.005
3/2/2021		<0.005		
3/3/2021	0.0034 (J)		<0.005	<0.005
8/19/2021		<0.005		
8/20/2021	0.0026 (J)		<0.005	<0.005
2/8/2022			<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005		
8/31/2022	0.0036 (J)	<0.005		
9/1/2022			<0.005	<0.005
Mean	0.002625	0.004215	0.00481	0.0048
Std. Dev.	0.001076	0.001624	0.0008497	0.0008944
Upper Lim.	0.003014	0.005	0.005	0.005
Lower Lim.	0.001996	0.0014	0.0012	0.001

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/12/2022 1:45 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27S
6/8/2016	<0.001	0.00012 (J)
8/1/2016	<0.001	0.0001 (J)
9/20/2016	<0.001	<0.001
11/7/2016	<0.001	<0.001
1/18/2017	<0.001	
1/19/2017		<0.001
2/21/2017	<0.001	
2/22/2017		<0.001
5/3/2017	<0.001	
5/8/2017		0.0001 (J)
6/30/2017		0.0001 (J)
7/10/2017	<0.001	
3/29/2018		<0.001
3/30/2018	<0.001	
2/27/2019	<0.001	<0.001
2/13/2020	5.7E-05 (J)	0.0001 (J)
3/19/2020	5.5E-05 (J)	
3/20/2020		0.00011 (J)
9/24/2020	<0.001	<0.001
2/10/2021	<0.001	<0.001
2/8/2022		<0.001
2/10/2022	<0.001	
8/31/2022	<0.001	
9/1/2022		<0.001
Mean	0.000882	0.0006644
Std. Dev.	0.0003224	0.0004475
Upper Lim.	0.001	0.001
Lower Lim.	5.7E-05	0.0001

Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 900
Atlanta
Georgia 30339
Phone: 770 431 8666
Fax: 770 435 2666
www.arcadis.com